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MEMORY INTEGRATED CIRCUITS D.A.T.A.BOOK[®]

Edition 19
7,494 types

November 1980 through April 1981
59 Manufacturers

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EDITORIAL POLICY & PROCEDURES

- Purpose** This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the world in the field of MSI-LSI Memories. While a book such as this can not provide 100% of the information you might need, its primary aims are those of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.
- Technical Data Acquisition** D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the cooperation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products.
- JEDEC Outlines** At the time this D.A.T.A.BOOK was prepared, there were no JEDEC type numbers; however, some of the devices have the JEDEC-designated MO- and TO- outlines which are included as applicable in the Outline Drawings Section.
- Military Type Numbers** The electrical, mechanical and environmental information tabulated for the military types in the technical sections is derived directly from the applicable military specifications and standards. The source information, showing the particular manufacturers qualified for each type, is derived from the QPL (Qualified Parts List) associated with the governing specification, or from the manufacturers Qualification Test Letters.
- Substitute Types And Compatibility** This D.A.T.A.BOOK can not truly claim to be an interchangeability chart; however, because of the sequencing arrangement of selected characteristics in the technical sections, types with the same or similar characteristics are grouped together. For purposes of replacement, this means of thorough, convenient technical comparison should prove superior to, and safer than, a mere listing of possible substitute type numbers.
- Price And Availability** Because of the rapidly-changing and complex nature of this field, current price and delivery information should be obtained direct from the manufacturers. The list of manufacturers and the Local Offices Section in back of the book will assist you in this.
- Manufacturers' Specifications** This book includes currently-manufactured devices and devices soon-to-be available with their major characteristics, drawings and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher can not be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details.

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK

Select the particular KNOWN-UNKNOWN situation that applies, and follow the instructions as indicated.

Examples shown here are taken from Edition 14 of the MSI-LSI MEMORY D.A.T.A.BOOK

1. KNOWN: Electrical or Mechanical Requirements - RAM, 1024x4, 300 ns Access Time

UNKNOWN: Suitable Type numbers

a. Turn to the Table of Contents and select the technical Data Section corresponding to the "known" device type; (Section 2, Read-Write Memories - RAMS).

b. Turn to any page in the RAM Section. Note the sequencing parameters, i.e., those characteristics for which the data are sequenced (No. WORDS first, No. BITS/WORD second) indicated at the top right corner of the page.

c. Using the sequencing parameters, locate the type numbers that are in general agreement with your requirements. Because of the sequencing, these types will appear together; 1024x4, 300ns access types are found in this example on lines 1-21. From among these, select the one or ones most suitable.

d. To identify the manufacturers of the selected type number, follow the procedures outlined in 2.

2. KNOWN: Type Number - C2114L3

UNKNOWN: Complete Manufacturer Information

a. In the Type No. Cross Index (Section 1) locate the "known" type number in this alpha-numeric sequenced section. (For example C2114L3)

b. Note the 3-letter manufacturers' code(s) indicated for the "known" type. (ITL for C2114L3)

c. Turn to the Manufacturers Codes, Names and Addresses (Section 25) for complete manufacturer information. (For example: ITL)

d. Turn to the Manufacturers Local Offices (Section 24) where full local office listings are located.

e. To locate the manufacturer's logo, turn to Section 26.

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK (Cont'd)

7. SHIFT REGISTERS

LINE No.	TYPE No.	ORGANIZATION	OPEN REGS	CODE CASE	POWER SUPPLY	INPUT LOGIC	MAX. PROP. DELAY	MIN. CURRENT	CLOCK TEMP. RANGE	LOGIC/OUTLINE
1	MCT0119	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
2	MCT0120	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
3	MCT0121	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
4	MCT0122	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
5	MCT0123	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
6	MCT0124	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
7	MCT0125	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
8	MCT0126	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
9	MCT0127	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
10	MCT0128	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
11	MCT0129	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
12	MCT0130	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
13	MCT0131	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
14	MCT0132	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
15	MCT0133	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
16	MCT0134	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
17	MCT0135	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
18	MCT0136	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
19	MCT0137	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
20	MCT0138	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
21	MCT0139	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
22	MCT0140	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
23	MCT0141	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
24	MCT0142	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
25	MCT0143	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
26	MCT0144	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
27	MCT0145	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
28	MCT0146	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
29	MCT0147	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
30	MCT0148	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
31	MCT0149	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
32	MCT0150	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
33	MCT0151	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
34	MCT0152	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
35	MCT0153	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
36	MCT0154	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
37	MCT0155	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
38	MCT0156	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
39	MCT0157	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
40	MCT0158	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
41	MCT0159	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
42	MCT0160	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
43	MCT0161	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
44	MCT0162	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
45	MCT0163	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
46	MCT0164	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
47	MCT0165	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
48	MCT0166	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
49	MCT0167	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
50	MCT0168	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
51	MCT0169	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
52	MCT0170	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
53	MCT0171	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
54	MCT0172	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
55	MCT0173	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
56	MCT0174	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
57	MCT0175	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
58	MCT0176	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
59	MCT0177	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
60	MCT0178	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
61	MCT0179	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
62	MCT0180	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
63	MCT0181	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
64	MCT0182	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
65	MCT0183	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
66	MCT0184	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
67	MCT0185	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
68	MCT0186	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
69	MCT0187	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
70	MCT0188	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
71	MCT0189	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
72	MCT0190	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
73	MCT0191	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
74	MCT0192	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
75	MCT0193	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
76	MCT0194	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
77	MCT0195	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
78	MCT0196	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
79	MCT0197	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
80	MCT0198	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
81	MCT0199	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7
82	MCT0200	MC10841	4	1	PPS	1500MS	0.0	1.0	0.0	7

5. **KNOWN:** Military Electrical or Mechanical Requirements - Shift Register, 4 Bits Per Register, 2 Registers, Static Serial to Parallel, 700kHz Freq.
- UNKNOWN:** Suitable Type Numbers

- a. Turn to the Table of Contents and select the Technical Data Section corresponding to the "known" device; (Section 7, Shift Registers). To determine the general type numbers that meet the military electrical or mechanical requirements, follow the same procedures outlined in 1. From among these, select the military types by means of the identifying prefix "JAN". (For example: JAN M38510/05703 AEA).

- b. To identify the manufacturers, follow the procedures outlined in 6.

21. TYPES WITH U.S. MILITARY SPECIFICATIONS

TYPE No.	MFRS	TYPE No.	MFRS	TYPE No.	MFRS	TYPE No.	MFRS
M38510/0208BDA	AMEND	M38510/087012A	AMEND	M38510/08702CEA	AMEND	M38510/08704AFB	AMEND
M38510/0208BDB	AMEND	M38510/087012B	AMEND	M38510/08702CEB	AMEND	M38510/08704AFC	AMEND
M38510/0208BDC	AMEND	M38510/087012C	AMEND	M38510/08702CEC	AMEND	M38510/08704AFD	AMEND
M38510/0208CAA	AMEND	M38510/087012D	AMEND	M38510/08702CED	AMEND	M38510/08704AFE	AMEND
M38510/0208CAB	AMEND	M38510/087012E	AMEND	M38510/08702CEE	AMEND	M38510/08704AFG	AMEND
M38510/0208CAC	AMEND	M38510/087012F	AMEND	M38510/08702CEF	AMEND	M38510/08704AFH	AMEND
M38510/0208CAB	AMEND	M38510/087012G	AMEND	M38510/08702CEG	AMEND	M38510/08704AFI	AMEND
M38510/0208CAC	AMEND	M38510/087012H	AMEND	M38510/08702CEH	AMEND	M38510/08704AFJ	AMEND
M38510/0208CAB	AMEND	M38510/087012I	AMEND	M38510/08702CEI	AMEND	M38510/08704AFK	AMEND
M38510/0208CAC	AMEND	M38510/087012J	AMEND	M38510/08702CEJ	AMEND	M38510/08704AFL	AMEND
M38510/0208CAB	AMEND	M38510/087012K	AMEND	M38510/08702CEK	AMEND	M38510/08704AFM	AMEND
M38510/0208CAC	AMEND	M38510/087012L	AMEND	M38510/08702CEL	AMEND	M38510/08704AFN	AMEND
M38510/0208CAB	AMEND	M38510/087012M	AMEND	M38510/08702CEM	AMEND	M38510/08704AF0	AMEND
M38510/0208CAC	AMEND	M38510/087012N	AMEND	M38510/08702CEN	AMEND	M38510/08704AF1	AMEND
M38510/0208CAB	AMEND	M38510/087012O	AMEND	M38510/08702CEO	AMEND	M38510/08704AF2	AMEND
M38510/0208CAC	AMEND	M38510/087012P	AMEND	M38510/08702CEP	AMEND	M38510/08704AF3	AMEND
M38510/0208CAB	AMEND	M38510/087012Q	AMEND	M38510/08702CEQ	AMEND	M38510/08704AF4	AMEND
M38510/0208CAC	AMEND	M38510/087012R	AMEND	M38510/08702CER	AMEND	M38510/08704AF5	AMEND
M38510/0208CAB	AMEND	M38510/087012S	AMEND	M38510/08702CES	AMEND	M38510/08704AF6	AMEND
M38510/0208CAC	AMEND	M38510/087012T	AMEND	M38510/08702CET	AMEND	M38510/08704AF7	AMEND
M38510/0208CAB	AMEND	M38510/087012U	AMEND	M38510/08702CEU	AMEND	M38510/08704AF8	AMEND
M38510/0208CAC	AMEND	M38510/087012V	AMEND	M38510/08702CEV	AMEND	M38510/08704AF9	AMEND
M38510/0208CAB	AMEND	M38510/087012W	AMEND	M38510/08702CEW	AMEND	M38510/08704AF0	AMEND
M38510/0208CAC	AMEND	M38510/087012X	AMEND	M38510/08702CEX	AMEND	M38510/08704AF1	AMEND
M38510/0208CAB	AMEND	M38510/087012Y	AMEND	M38510/08702CEY	AMEND	M38510/08704AF2	AMEND
M38510/0208CAC	AMEND	M38510/087012Z	AMEND	M38510/08702CEZ	AMEND	M38510/08704AF3	AMEND

6. **KNOWN:** Military Type Number — JAN M38510/05703AEA
- UNKNOWN:** Qualified Manufacturers and/or Applicable Military Specification

25. MANUFACTURERS CODES, NAMES & ADDRESSES

MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS

D.A.T.A. CODE LETTERS

USE OF POWERS-OF-TEN MULTIPLIERS AND SYMBOLS & CODES IN THE TECHNICAL SECTIONS

To present a maximum amount of information in a minimum amount of space, use is made in this book of the following data modifiers:

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

MULTIPLIERS									EXPLANATION					
PREFIXES & SYMBOLS			Recommended by International Committee on Weights and Measures						Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry			
Indicating Powers of Ten			Adopted by National Bureau of Standards											
Power	Prefix	Symbol	Power	Prefix	Symbol	Power	Prefix	Symbol	* May also be written as 0.5, with no multiplier					
10 ¹²	tera	T	10	deka	da	10 ⁻⁹	nano	n				3 milliamperes	A (amperes)	3.0m
10 ⁹	giga	G	10 ⁻¹	deci	d	10 ⁻¹²	pico	p				9 megaohms	Ω (ohms)	9.0M
10 ⁶	mega	M	10 ⁻²	centi	c	10 ⁻¹⁵	femto	f				0.5 volt	V (volts)	500m *
10 ³	kilo	k	10 ⁻³	milli	m	10 ⁻¹⁸	atto	a				10 amperes	A (amperes)	10
10 ²	hecto	h	10 ⁻⁶	micro	μ									

SYMBOLS & CODES

Symbols — Symbols such as #, Δ, and \$ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

NOTE: The symbols and codes used herein are explained on the cards in back of the book.

Codes — Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A,B,C, etc.) numeric (1,2,3, etc.) or some combination of both.

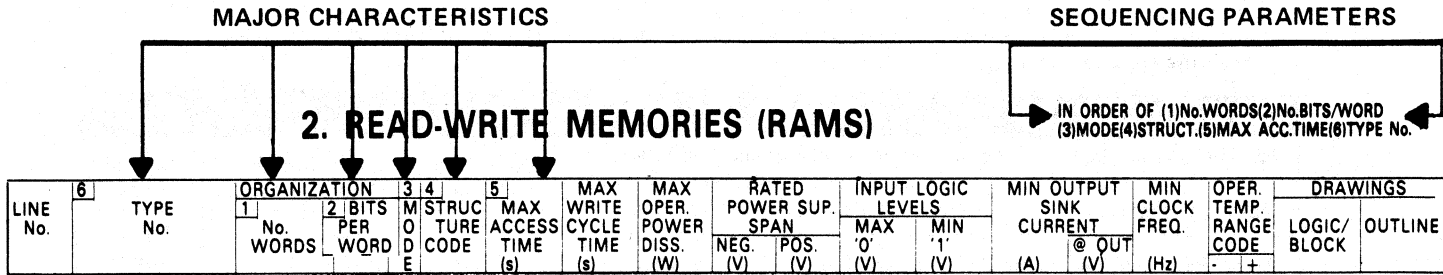
HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS INDEX

Sequencing of type numbers in the Type Number Cross-Index is governed by the following rules:

	EXAMPLES
Rules: 1) Type numbers are listed in numeric-alphabetic sequence; i.e., type numbers beginning with a number (decimal, fraction, or whole) precede type numbers beginning with a letter.	13A01 143 1202 A147 AN127 B2000
2) Decimals and fractions precede whole numbers. An equivalent decimal precedes the fraction when the remainder of type number is identical.	.25Z150 1/4Z150 3/4M12Z 1T3
3) Zeros are ignored in sequencing except when the zero is the only basis for distinguishing one type number from another. In this case the type number containing the zero is listed first.	0112 112 0113 00115 AP01 AP1 AP02
4) Number and/or letter groupings preceding hyphens or slashes are the controlling factors in sequencing. The hyphens and slashes themselves precede any identically positioned letters also having the same beginning number/letter groupings.	66-0706 66M1 70/10 70A9

HOW TYPE NOS. ARE ARRANGED IN THE TECHNICAL SECTION – SEQUENCING PARAMETERS

The arrangement of types in the technical sections is keyed to a set of special characteristics selected for their importance from among the general group of characteristics tabulated in each section. These selected characteristics, or sequencing parameters, differ from one section to another, and are identified at the top corner of each page, as shown in the sample below.



The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameter. Groups of types having a common value for the first parameter are then arranged in ascending order of the second parameter. This process continues for each parameter in turn, up to and including the last parameter which, in every instance, is the type number itself. The final arrangement, by type number, is done in accordance with the sequencing of type numbers in the cross-index, as explained on the preceding page.

A simplified model of the arrangement as described is shown below.

4] Type Number	Characteristics			
	1] A	2] B	C	3] D
A13	100		325	
A4	100		1000	20
A9	100	A	20	25
A10	100	A	200	25
A3	100	B	40	15
A1	100	C	80	10
A8	100	C	900	15
A7	100	D	35	30
A11	110	A	60	25
A2	120	A	300	15
A5	120	B	150	20
A6	120	B	200	20
A12	120	B	475	25

Last Seq. Par.
1st Seq. Par.
2nd Seq. Par.
(Not Seq.)
3rd Seq. Par.

Note that the absence of an entry for any sequencing parameter is regarded as a zero, and precedes any actual entries in the sequencing.

D.A.T.A.'S APPROACH TO MSI/LSI MEMORY SPECIFICATIONS

- Access Time (Sect. 2,3,4,5,6) – the speed at which a device can read-out information from its memory. It is defined as the time difference between the addressing of the memory and the appearance of a valid output.
- Clock Freq. (Sect 2,3,7) – is given for dynamic devices for the reason explained under “modes”. For static devices it is assumed to be dc. In Section 3 it is specified in the Description column when applicable.
- Conversion Code: “From” and “To” (Sect. 6)– indicates the input and output codes of the device. Those devices having reversible code capability are listed twice, once for each direction change.
- Input Logic Levels (All sections) – the max. input voltage at which the input is in the “off” or “0” state, and the min. input voltage at which the input is in the “on” or “1” state. The difference between the two input levels indicates the relative noise immunity of the device. For cases where the input logic levels are not specified, the output levels are, and a symbol is used to indicate this condition.

The input logic levels apply to the address inputs for the “memory” devices in Sections 2 to 6, and to the data inputs for shift registers in Section 7. If the device can be adjusted for compatibility with both MOS and Bipolar systems, then Bipolar levels are specified in the column. A symbol is used to indicate this condition.

- Logic/Block Drawings (All sections) – separated and coded according to functional classification, i.e., RAM's, ROM's, etc. The block drawing was considered more descriptive than the circuit schematic in showing the overall operation of the device from a system aspect.
- Mode: Static or Dynamic (Sect. 2 and 5) – represents the basic storage method of the device. Static types use flip-flops that retain their state indefinitely as long as the supply voltage is maintained. Their frequency of operation extends down to dc. Dynamic types use the inherent interelectrode capacitance of MOS devices to store a charge which determines the state of a memory bit. Since this charge cannot be held indefinitely, these types must be refreshed periodically; this restricts the lower limit of their operating frequency.
- No. of Bits Per Character (Sect. 4) – the number of bits in the display matrix, obtained by multiplying the number of rows in the display matrix times the number of columns. The number provides a measure of the resolution of the display.
- No. of Bits Per Register (Sect. 7) – the bit capacity of the individual registers which can be used separately in the device. If the number of bits varies for the different registers, then the highest capacity is specified, and the user is referred to the logic/block drawing for more specific information.
- No. of Characters (Sect 4) – the character capacity of the device. For a standard code with a given number of characters such as ASCII, the input code for any character is fixed. Some devices must be used in pairs to supply the complete code, in which case a symbol is used in the technical section column.
- No. of Code Inputs and Outputs (Sect. 6) – determines the code input and output character capacity.
- No. of Outputs (Sect. 4) – indicates the number of outputs to the display. For row-and-column-scanning devices, the array of the display matrix is easily determined by dividing this number into the number of bits per character.
- No. of Registers (Sect. 7) – together with the number of bits/register determine the total bit capacity of the device. Some registers contain inputs to intermediate stages; this is noted with a symbol.
- Oper. Mode and Prog. Code (Sect 3) – describes: 1)the mode of operation of the device (dynamic or static); and 2)the type of program available (standard or custom). If a standard program is indicated in the Code, it is defined in the technical section Description column.
- Operating Power Diss. (All sections) – the “worst-case” power dissipation of the device under operating conditions. A manufacturer may indicate the “quiescent” or the “absolute maximum” power dissipations; these values vary significantly from “worst case”. For this reason the user is cautioned not to use the quiescent or absolute maximum power dissipation in comparing the operating power dissipation of different devices. All conditions other than “worst case” are distinguished by the use of a symbol following the value.

D.A.T.A.'S APPROACH TO MSI/LSI MEMORY SPECIFICATIONS (Cont'd)

- Oper. Temp. Range Code (All sections) – the temperature range over which the manufacturer indicates that the device will operate. Unless otherwise noted by a symbol in the appropriate column or columns, all specified characteristics apply over the operating temperature range of the device.
- Organization: No. of Words and No. Bits/Word (Sect. 2,3,5) – represents the capacity of the memory. By connecting the outputs of two or more devices in parallel, the total number of words may be expanded; similarly, by connecting the address inputs in parallel, the number of bits/word can be expanded.
- Outline Drawings (All sections) – separated and coded in the Outline Drawing Section according to package configuration. In this way the user can easily determine the types of package and the associated dimensions available for memory circuits.
- Output Sink Current (All sections) – negative current that the output of a device can sink at a specified “0” level. This is especially important in determining a device’s compatibility to Bipolar circuits. Where the sink current is not specified or not applicable, an alternate output current characteristic is specified, and is identified by an appropriate symbol.
- Propagation Delay (Sect. 7) – the time required to shift information one bit through the register. It is defined as the time between the initiating clock pulse at the input of a storage element, to the occurrence of a valid output from the same element.
- Rated Power Supply Span (All sections) – the range of positive and negative supply voltages at which the characteristics are specified by the manufacturer. If more than one negative or positive voltage is necessary for the operation of the device, the maximum negative or positive value is specified. The logic/block drawing should then be consulted for the actual voltages required to operate the device.
- Search Time (Sect. 5) – the time required to match information in the memory once a search is initiated. It is defined as the time difference between the enabling of the associate control input and the receiving of a mismatch or match condition at the output.
- Structure Code (All sections) – relates the device to the two main developing semiconductor technologies for memory devices: Bipolar and MOS. Presently, the two technologies are characterised by distinctive advantages and disadvantages in comparison to each other. Generally, Bipolar devices are faster, but MOS devices dissipate less power. A third technology, thin film amorphous, features non-volatile and non-destructive crystalline memory bits.
- Use Code (Sect. 4) – describes 1) the mode of operation of the device (dynamic or static); 2) the type of code stored in the device; and 3) the type of display used with the device. Knowing these three characteristics greatly narrows the search for a character generator.
- Use Code (Sect. 7) – describes 1) the type (serial or parallel) of input and output terminals available on the device; and 2) the operating mode of the device (static or dynamic). For devices that operate in both the serial and parallel modes on the input and/or output, the parallel capability is specified, since parallel devices can operate in both the serial and parallel modes.
- Worst Case Operating Frequency (Sect. 7) – the highest guaranteed operating frequency of the device. Alternatively, the data-rate frequency is specified in the case where it differs from the clock frequency.
- Write-Cycle Time (Sect. 2,5) – the time required to write a data-word into a given memory address. The max. read-write time is similarly defined, except that it includes both the read and write portions of the cycle. The min. write-pulse width is specified in the column when the cycle times are not given. It is defined as the min. pulse width required at the write input to insure that valid information is stored at the memory address.

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In Order Of "Generic" Type Number

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LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	01		MCH-01		MATC	CHAR GEN	65- 3	111	10		PAL10H8CN		MMI	SPECIAL	89- 28
2	1		MEM-1B		WLD	RAM	27-110	112	10		PAL10H8MJ		MMI	SPECIAL	89- 29
3	1		MM1-RAM		WLD	RAM	33- 25	113	10		PAL10H8MN		MMI	SPECIAL	89- 30
4	2		MEM-2		WLD	RAM	28- 1	114	10		PAL10L8CJ		MMI	SPECIAL	89- 31
5	3		MEM-3		WLD	RAM	37- 17	115	10		PAL10L8CN		MMI	SPECIAL	89- 32
6	4		MSR4		WLD	SHIFT REG	68- 21	116	10		PAL10L8MJ		MMI	SPECIAL	89- 33
7	4		TMSR4A		WLD	SHIFT REG	72- 4	117	10		PAL10L8MN		MMI	SPECIAL	89- 34
8	5		MUF5		WLD	SHIFT REG	77- 35	118	11		uPD11A		NECJ	SHIFT REG	83- 56
9	5		M5G1400P		MITJ	ROM	45- 66	119	12		PAL12H6CJ		MMI	SPECIAL	89- 43
10	5		SL5-C2100-16		GIC	SHIFT REG	86- 84	120	12		PAL12H6CN		MMI	SPECIAL	89- 44
11	5		SL5-C2128-12		GIC	SHIFT REG	86- 85	121	12		PAL12H6MJ		MMI	SPECIAL	89- 45
12	5		SL5-C2128-16		GIC	SHIFT REG	86- 86	122	12		PAL12H6MN		MMI	SPECIAL	89- 46
13	5K4116		M5K4116P-2		MITJ	RAM	42- 12	123	12		PAL12L6CJ		MMI	SPECIAL	89- 47
14	5K4116		M5K4116P-3		MITJ	RAM	42- 46	124	12		PAL12L6CN		MMI	SPECIAL	89- 48
15	5K4116		M5K4116S-2		MITJ	RAM	42- 13	125	12		PAL12L6MJ		MMI	SPECIAL	89- 49
16	5K4116		M5K4116S-3		MITJ	RAM	42- 47	126	12		PAL12L6MN		MMI	SPECIAL	89- 50
17	5L2101		M5L2101AP-4		MITJ	RAM	26- 65	127	14		PAL14H4CJ		MMI	SPECIAL	89- 35
18	5L2101		M5L2101AP2		MITJ	RAM	26- 28	128	14		PAL14H4CN		MMI	SPECIAL	89- 36
19	5L2101		M5L2101AS2		MITJ	RAM	26- 29	129	14		PAL14H4MJ		MMI	SPECIAL	89- 37
20	5L2102		M5L2102AP-4		MITJ	RAM	32- 6	130	14		PAL14H4MN		MMI	SPECIAL	89- 38
21	5L2102		M5L2102AS-4		MITJ	RAM	32- 7	131	14		PAL14L4CJ		MMI	SPECIAL	89- 39
22	5L2107		M5L2107BP		MITJ	RAM	37- 90	132	14		PAL14L4CN		MMI	SPECIAL	89- 40
23	5L2107		M5L2107BS		MITJ	RAM	37- 91	133	14		PAL14L4MJ		MMI	SPECIAL	89- 41
24	5L2107		M5L2107BS-4		MITJ	RAM	38- 30	134	14		PAL14L4MN		MMI	SPECIAL	89- 42
25	5L2111		M5L2111AP		MITJ	RAM	26- 47	135	15		RM15		ECV	ROM	44- 7
26	5L2111		M5L2111AP-4		MITJ	RAM	26- 66	136	15		RM15Y		ECV	ROM	44- 9
27	5L2111		M5L2111AP2		MITJ	RAM	26- 30	137	16		F16K2DC		FSC	RAM	42- 6
28	5L2111		M5L2111AS		MITJ	RAM	26- 48	138	16		F16K3DC		FSC	RAM	42- 39
29	5L2111		M5L2111AS2		MITJ	RAM	26- 31	139	16		F16K4DC		FSC	RAM	42- 78
30	5L2111		M5L2111AS4		MITJ	RAM	26- 67	140	16		F16K5DC		FSC	RAM	42-109
31	5L2112		M5L2112AP-4		MITJ	RAM	26- 68	141	16		PAL16A4CJ		MMI	SPECIAL	89- 59
32	5L2114		M5L2114LP		MITJ	RAM	34-100	142	16		PAL16A4CN		MMI	SPECIAL	89- 60
33	5L2114		M5L2114LP-2		MITJ	RAM	33- 64	143	16		PAL16A4MJ		MMI	SPECIAL	89- 61
34	5L2114		M5L2114LP-3		MITJ	RAM	34- 31	144	16		PAL16A4MN		MMI	SPECIAL	89- 62
35	5L2114		M5L2114LS		MITJ	RAM	34-101	145	16		PAL16C1CJ		MMI	SPECIAL	89- 83
36	5L2114		M5L2114LS-2		MITJ	RAM	33- 65	146	16		PAL16C1CN		MMI	SPECIAL	89- 84
37	5L2114		M5L2114LS-3		MITJ	RAM	34- 32	147	16		PAL16C1MJ		MMI	SPECIAL	89- 85
38	5L2708		M5L2708K		MITJ	ROM	55- 36	148	16		PAL16C1MN		MMI	SPECIAL	89- 86
39	5L2708		M5L2708K65		MITJ	ROM	55- 37	149	16		PAL16H2CJ		MMI	SPECIAL	89- 51
40	5L2708		M5L2708S		MITJ	ROM	58- 64	150	16		PAL16H2CN		MMI	SPECIAL	89- 52
41	5L2708		M5L2708S-65		MITJ	ROM	58- 81	151	16		PAL16H2MJ		MMI	SPECIAL	89- 53
42	5L2716		M5L2716K		MITJ	ROM	60- 3	152	16		PAL16H2MN		MMI	SPECIAL	89- 54
43	5L2716		M5L2716K-65		MITJ	ROM	60- 4	153	16		PAL16L2CJ		MMI	SPECIAL	89- 55
44	5L2732		M5L2732K		MITJ	ROM	63- 47	154	16		PAL16L2CN		MMI	SPECIAL	89- 56
45	5L2732		M5L2732K-6		MITJ	ROM	62- 70	155	16		PAL16L2MJ		MMI	SPECIAL	89- 57
46	5T4044		M5T4044LP-1		MITJ	RAM	25- 59	156	16		PAL16L2MN		MMI	SPECIAL	89- 58
47	5T4044		M5T4044P-20		MITJ	RAM	39- 74	157	16		PAL16L8CJ		MMI	SPECIAL	89- 75
48	5T4044		M5T4044P-30		MITJ	RAM	40- 6	158	16		PAL16L8CN		MMI	SPECIAL	89- 76
49	5T4044		M5T4044P-45		MITJ	RAM	40- 36	159	16		PAL16L8MJ		MMI	SPECIAL	89- 77
50	5T4044		M5T4044S-20		MITJ	RAM	39- 75	160	16		PAL16L8MN		MMI	SPECIAL	89- 78
51	5T4044		M5T4044S-30		MITJ	RAM	40- 7	161	16		PAL16R4CJ		MMI	SPECIAL	89- 63
52	5T4044		M5T4044S-45		MITJ	RAM	40- 37	162	16		PAL16R4CN		MMI	SPECIAL	89- 64
53	6		MEM-6		WLD	RAM	28- 2	163	16		PAL16R4MJ		MMI	SPECIAL	89- 65
54	6		AMU6B930051X		AMD	SHIFT REG	71- 56	164	16		PAL16R4MN		MMI	SPECIAL	89- 66
55	6		AMU6B930059X		AMD	SHIFT REG	71- 57	165	16		PAL16R6CJ		MMI	SPECIAL	89- 71
56	7		SL7-C2100-30		GIC	SHIFT REG	86- 68	166	16		PAL16R6CN		MMI	SPECIAL	89- 72
57	8		MGF8		WLD	SHIFT REG	78- 39	167	16		PAL16R6MJ		MMI	SPECIAL	89- 73
58	8		MSR8		WLD	SHIFT REG	75- 15	168	16		PAL16R6MN		MMI	SPECIAL	89- 74
59	8		TMSR8		WLD	SHIFT REG	83-103	169	16		PAL16R8CJ		MMI	SPECIAL	89- 79
60	8		TMSR8A		WLD	SHIFT REG	75- 18	170	16		PAL16R8CN		MMI	SPECIAL	89- 80
61	8X350		S8X350F		PHIN	RAM	27- 89	171	16		PAL16R8MJ		MMI	SPECIAL	89- 81
62	8X350		S8X350F		SIC	RAM	27- 89	172	16		PAL16R8MN		MMI	SPECIAL	89- 82
63	8X350		N8X350F		PHIN	RAM	27- 88	173	16		PAL16X4CJ		MMI	SPECIAL	89- 67
64	8X350		N8X350F		SIC	RAM	27- 88	174	16		PAL16X4CN		MMI	SPECIAL	89- 68
65	9LS95		9LS95DC		FSC	SHIFT REG	73- 64	175	16		PAL16X4MJ		MMI	SPECIAL	89- 69
66	9LS95		9LS95DM		FSC	SHIFT REG	73- 65	176	16		PAL16X4MN		MMI	SPECIAL	89- 70
67	9LS95		9LS95FC		FSC	SHIFT REG	73- 66	177	16		TMSR16		WLD	SHIFT REG	84- 23
68	9LS95		9LS95FM		FSC	SHIFT REG	73- 67	178	21		MD21SC14AE10		MITC	RAM	33- 18
69	9LS95		9LS95PC		FSC	SHIFT REG	73- 68	179	21		MD21SC14AE15		MITC	RAM	33- 19
70	9LS164		9LS164DC		FSC	SHIFT REG	80- 4	180	21		MD21SC14AE25		MITC	RAM	33- 20
71	9LS164		9LS164DM		FSC	SHIFT REG	80- 5	181	21	F02	21F02-2F		PHIN	RAM	31- 3
72	9LS164		9LS164FC		FSC	SHIFT REG	80- 6	182	21	F02	21F02-2F		SIC	RAM	31- 3
73	9LS164		9LS164FM		FSC	SHIFT REG	80- 7	183	21	F02	21F02-2F		VALG	RAM	31- 3
74	9LS164		9LS164PC		FSC	SHIFT REG	80- 8	184	21	F02	21F02-2F		PHIN	RAM	31- 4
75	9LS170		9LS170DC		FSC	RAM	18- 35	185	21	F02	21F02-2I		PHIN	RAM	31- 4
76	9LS170		9LS170DM		FSC	RAM	18- 36	186	21	F02	21F02-2I		VALG	RAM	31- 4
77	9LS170		9LS170FC		FSC	RAM	18- 37	187	21	F02	21F02-2N		PHIN	RAM	31- 5
78	9LS170		9LS170FM		FSC	RAM	18- 38	188	21	F02	21F02-2N		SIC	RAM	31- 5
79	9LS170		9LS170PC		FSC	RAM	18- 39	189	21	F02	21F02-2N		VALG	RAM	31- 5
80	9LS174		9LS174DC		FSC	SHIFT REG	78- 17	190	21	F02	21F02-4F		PHIN	RAM	31- 92
81	9LS174		9LS174DM		FSC	SHIFT REG	78- 18	191	21	F02	21F02-4F		SIC	RAM	31- 92
82	9LS174		9LS174FC		FSC	SHIFT REG	78- 19	192	21	F02	21F02-4F		VALG	RAM	31- 92
83	9LS174		9LS174FM		FSC	SHIFT REG	78- 20	193	21	F02	21F02-4I		PHIN	RAM	31- 93
84	9LS174		9LS174PC		FSC	SHIFT REG	78- 21	194	21	F02	21F02-4I		SIC	RAM	31- 93
85	9LS175		9LS175DC		FSC	SHIFT REG	74- 7	195	21	F02	21F02-4I		VALG	RAM	31- 93
86	9LS175		9LS175DM		FSC	SHIFT REG	74- 8	196	21	F02	21F02-4N		PHIN	RAM	31- 94
87	9LS175		9LS175FC		FSC	SHIFT REG	74- 9	197	21	F02	21F02-4N		SIC	RAM	31- 94
88	9LS175		9LS175FM		FSC	SHIFT REG	74- 10	198	21	F02	21F02-4N		VALG	RAM	31- 94
89	9LS175		9LS175PC		FSC	SHIFT REG	74- 11	199	21	F02	21F02B		MULB	RAM	31- 45
90	9LS194		9LS194DC		FSC	SHIFT REG	73- 69	200	21	F02	21F02B		SIC	RAM	31- 45
91	9LS194		9LS194DM		FSC	SHIFT REG	73- 70	201	21	F02	21F02F		MULB	RAM	31- 46
92	9LS194		9LS194FC		FSC	SHIFT REG	73- 71	202	21	F02	21F02F		PHIN	RAM	31- 46
93	9LS194		9LS194FM		FSC	SHIFT REG	73- 72	203	21	F02	21F02F		SIC	RAM	31- 46
94	9LS194		9LS194PC		FSC	SHIFT REG	73- 73	204	21	F02	21F02F		VALG	RAM	31- 46
95	9LS195		9LS195DC		FSC	SHIFT REG	73- 74	205	21	F02	21F02I		PHIN	RAM	31- 47
96	9LS195		9LS195DM		FSC	SHIFT REG	73- 75	206	21	F02	21F02I		SIC	RAM	31- 47
97	9LS195		9LS195FC		FSC	SHIFT REG	73- 76	207	21	F02	21F02I		VALG	RAM	31- 47
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2	21L02	21L02-1N	VALG	RAM	32-73	112	25LS23	AM25LS23PC	AMD	SHIFT REG	83-50
3	21L02	21L02-2F	PHIN	RAM	32-33	113	25LS164	AM25LS164DC	AMD	SHIFT REG	83-43
4	21L02	21L02-2F	SIC	RAM	32-33	114	25LS164	AM25LS164DM	AMD	SHIFT REG	83-44
5	21L02	21L02-2F	VALG	RAM	32-33	115	25LS164	AM25LS164FM	AMD	SHIFT REG	83-45
6	21L02	21L02-2I	PHIN	RAM	32-34	116	25LS164	AM25LS164PC	AMD	SHIFT REG	83-46
7	21L02	21L02-2I	SIC	RAM	32-34	117	25LS174	AM25LS174DC	AMD	SHIFT REG	78-13
8	21L02	21L02-2I	VALG	RAM	32-34	118	25LS174	AM25LS174DM	AMD	SHIFT REG	78-14
9	21L02	21L02-2N	PHIN	RAM	32-35	119	25LS174	AM25LS174FM	AMD	SHIFT REG	78-15
10	21L02	21L02-2N	SIC	RAM	32-35	120	25LS174	AM25LS174PC	AMD	SHIFT REG	78-16
11	21L02	21L02-2N	VALG	RAM	32-35	121	25LS175	AM25LS175DC	AMD	SHIFT REG	73-87
12	21L02	21L02-3B	MULB	RAM	31-80	122	25LS175	AM25LS175DM	AMD	SHIFT REG	73-88
13	21L02	21L02-3B	SIC	RAM	31-80	123	25LS175	AM25LS175FM	AMD	SHIFT REG	73-89
14	21L02	21L02-3F	MULB	RAM	31-81	124	25LS175	AM25LS175PC	AMD	SHIFT REG	73-90
15	21L02	21L02-3F	PHIN	RAM	31-81	125	25LS194	AM25LS194DC	AMD	SHIFT REG	73-51
16	21L02	21L02-3F	SIC	RAM	31-81	126	25LS194	AM25LS194DM	AMD	SHIFT REG	73-52
17	21L02	21L02-3F	VALG	RAM	31-81	127	25LS194	AM25LS194FM	AMD	SHIFT REG	73-53
18	21L02	21L02-3I	MULB	RAM	31-82	128	25LS194	AM25LS194PC	AMD	SHIFT REG	73-54
19	21L02	21L02-3I	PHIN	RAM	31-82	129	25LS195	AM25LS195DC	AMD	SHIFT REG	73-55
20	21L02	21L02-3I	SIC	RAM	31-82	130	25LS195	AM25LS195DM	AMD	SHIFT REG	73-56
21	21L02	21L02-3I	VALG	RAM	31-82	131	25LS195	AM25LS195FM	AMD	SHIFT REG	73-57
22	21L02	21L02-3N	PHIN	RAM	31-83	132	25LS195	AM25LS195PC	AMD	SHIFT REG	73-58
23	21L02	21L02-3N	SIC	RAM	31-83	133	25LS273	AM25LS273DC	AMD	SHIFT REG	79-78
24	21L02	21L02-3N	VALG	RAM	31-83	134	25LS273	AM25LS273DM	AMD	SHIFT REG	79-79
25	21L02	21L02F	SIC	RAM	32-74	135	25LS273	AM25LS273FM	AMD	SHIFT REG	79-80
26	21L02	21L02F	VALG	RAM	32-74	136	25LS273	AM25LS273PC	AMD	SHIFT REG	79-81
27	21L02	21L02FDC	FSC	RAM	31-49	137	25LS299	AM25LS299DC	AMD	SHIFT REG	83-51
28	21L02	21L02FFC	FSC	RAM	31-50	138	25LS299	AM25LS299DM	AMD	SHIFT REG	83-52
29	21L02	21L02PFC	FSC	RAM	31-51	139	25LS299	AM25LS299FM	AMD	SHIFT REG	83-53
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1	53S081	53S081F	MMI	ROM	44-55	111	54LS96	SN54LS96J	TII	SHIFT REG	78-32
2	53S081	53S081J	MMI	ROM	44-56	112	54LS96	SN54LS96W	TII	SHIFT REG	78-33
3	53S081	53S081N	MMI	ROM	44-57	113	54LS96	SN54LS96F	PHIN	SHIFT REG	78-54
4	53S140	53S140F	MMI	ROM	46-78	114	54LS96	SN54LS96F	SIC	SHIFT REG	78-54
5	53S140	53S140J	MMI	ROM	46-79	115	54LS96	SN54LS96F	VALG	SHIFT REG	78-54
6	53S140	53S140N	MMI	ROM	46-80	116	54LS96	SN54LS96W	PHIN	SHIFT REG	78-55
7	53S141	53S141F	MMI	ROM	46-81	117	54LS96	SN54LS96W	SIC	SHIFT REG	78-55
8	53S141	53S141J	MMI	ROM	46-82	118	54LS96	SN54LS96W	VALG	SHIFT REG	78-55
9	53S141	53S141N	MMI	ROM	46-83	119	54LS164	SN54LS164J	AMD	SHIFT REG	83-18
10	53S240	53S240F	MMI	ROM	49-108	120	54LS164	SN54LS164J	MOTA	SHIFT REG	83-18
11	53S240	53S240J	MMI	ROM	50-1	121	54LS164	SN54LS164J	TII	SHIFT REG	83-18
12	53S240	53S240N	MMI	ROM	50-2	122	54LS164	SN54LS164W	AMD	SHIFT REG	83-19
13	53S241	53S241F	MMI	ROM	50-3	123	54LS164	SN54LS164W	MOTA	SHIFT REG	83-19
14	53S241	53S241J	MMI	ROM	50-4	124	54LS164	SN54LS164W	TII	SHIFT REG	83-19
15	53S241	53S241N	MMI	ROM	50-5	125	54LS164	54LS164DM	FSC	SHIFT REG	83-2
16	53S280	53S280J	MMI	ROM	48-27	126	54LS164	54LS164FM	FSC	SHIFT REG	83-3
17	53S280	53S280N	MMI	ROM	48-28	127	54LS164	54LS164J	RTN	SHIFT REG	83-4
18	53S281	53S281J	MMI	ROM	48-29	128	54LS164	54LS164W	RTN	SHIFT REG	83-5
19	53S281	53S281N	MMI	ROM	48-30	129	54LS164	54LS164F	PHIN	SHIFT REG	83-16
20	53S440	53S440F	MMI	ROM	54-50	130	54LS164	54LS164F	SIC	SHIFT REG	83-16
21	53S440	53S440J	MMI	ROM	54-51	131	54LS164	54LS164F	VALG	SHIFT REG	83-16
22	53S440	53S440N	MMI	ROM	54-52	132	54LS164	54LS164W	PHIN	SHIFT REG	83-17
23	53S441	53S441F	MMI	ROM	54-53	133	54LS164	54LS164W	SIC	SHIFT REG	83-17
24	53S441	53S441J	MMI	ROM	54-54	134	54LS164	54LS164W	VALG	SHIFT REG	83-17
25	53S441	53S441N	MMI	ROM	54-55	135	54LS165	SN54LS165J	MOTA	SHIFT REG	82-41
26	53S480	53S480J	MMI	ROM	51-88	136	54LS165	SN54LS165J	TII	SHIFT REG	82-41
27	53S480	53S480N	MMI	ROM	51-89	137	54LS165	SN54LS165W	MOTA	SHIFT REG	82-42
28	53S481	53S481J	MMI	ROM	51-90	138	54LS165	SN54LS165W	TII	SHIFT REG	82-42
29	53S481	53S481N	MMI	ROM	51-91	139	54LS165	54LS165DM	FSC	SHIFT REG	82-36
30	53S482	53S482F	MMI	ROM	51-92	140	54LS165	54LS165FM	FSC	SHIFT REG	82-37
31	53S482	53S482J	MMI	ROM	51-93	141	54LS166	SN54LS166J	TII	SHIFT REG	82-19
32	53S482	53S482N	MMI	ROM	51-94	142	54LS166	SN54LS166W	TII	SHIFT REG	82-20
33	53S483	53S483F	MMI	ROM	51-95	143	54LS170	SN54LS170J	MOTA	RAM	18-15
34	53S483	53S483J	MMI	ROM	51-96	144	54LS170	SN54LS170J	TII	RAM	18-15
35	53S483	53S483N	MMI	ROM	51-97	145	54LS170	SN54LS170W	MOTA	RAM	18-16
36	53S840	53S840F	MMI	ROM	59-86	146	54LS170	SN54LS170W	TII	RAM	18-16
37	53S840	53S840J	MMI	ROM	59-87	147	54LS170	54LS170DM	FSC	RAM	18-3
38	53S840	53S840N	MMI	ROM	59-88	148	54LS170	54LS170FM	FSC	RAM	18-4
39	53S841	53S841F	MMI	ROM	59-89	149	54LS170	54LS170F	PHIN	RAM	18-56
40	53S841	53S841J	MMI	ROM	59-90	150	54LS170	54LS170F	SIC	RAM	18-56
41	53S841	53S841N	MMI	ROM	59-91	151	54LS170	54LS170F	VALG	RAM	18-56
42	53S880	53S880F	MMI	ROM	56-90	152	54LS170	54LS170W	PHIN	RAM	18-57
43	53S880	53S880J	MMI	ROM	56-91	153	54LS170	54LS170W	SIC	RAM	18-57
44	53S880	53S880N	MMI	ROM	56-92	154	54LS170	54LS170W	VALG	RAM	18-57
45	53S881	53S881F	MMI	ROM	56-93	155	54LS174	SN54LS174J	MOTA	SHIFT REG	77-99
46	53S881	53S881J	MMI	ROM	56-94	156	54LS174	SN54LS174J	TII	SHIFT REG	77-99
47	53S881	53S881N	MMI	ROM	56-95	157	54LS174	SN54LS174W	MOTA	SHIFT REG	77-100
48	53S1640	53S1640J	MMI	ROM	62-49	158	54LS174	SN54LS174W	TII	SHIFT REG	77-100
49	53S1640	53S1640N	MMI	ROM	62-50	159	54LS174	54LS174J	RTN	SHIFT REG	78-7
50	53S1641	53S1641J	MMI	ROM	62-51	160	54LS174	54LS174W	RTN	SHIFT REG	78-8
51	53S1641	53S1641N	MMI	ROM	62-52	161	54LS175	SN54LS175J	MOTA	SHIFT REG	72-80
52	53S1680	53S1680F	MMI	ROM	61-28	162	54LS175	SN54LS175J	TII	SHIFT REG	72-80
53	53S1680	53S1680J	MMI	ROM	61-29	163	54LS175	SN54LS175W	MOTA	SHIFT REG	72-81
54	53S1680	53S1680N	MMI	ROM	61-30	164	54LS175	SN54LS175W	TII	SHIFT REG	72-81
55	53S1681	53S1681F	MMI	ROM	61-31	165	54LS175	54LS175J	RTN	SHIFT REG	73-49
56	53S1681	53S1681J	MMI	ROM	61-32	166	54LS175	54LS175W	RTN	SHIFT REG	73-50
57	53S1681	53S1681N	MMI	ROM	61-33	167	54LS189	SN54LS189J	MOTA	RAM	19-90
58	54C89	MM54C89J	NSC	RAM	21-38	168	54LS189	SN54LS189J	TII	RAM	19-90
59	54C200	MM54C200J	NSC	RAM	24-19	169	54LS189	SN54LS189W	MOTA	RAM	19-91
60	54C910	MM54C910J	NSC	RAM	21-102	170	54LS189	SN54LS189W	TII	RAM	19-91
61	54C920	MM54C920J	NSC	RAM	25-27	171	54LS189	54LS189DM	FSC	RAM	20-67
62	54C921	MM54C921J	NSC	RAM	25-28	172	54LS189	54LS189FM	FSC	RAM	20-68
63	54C929	MM54C929J	NSC	RAM	29-80	173	54LS194	SN54LS194AJ	AMD	SHIFT REG	72-82
64	54C930	MM54C930J	NSC	RAM	29-81	174	54LS194	SN54LS194AJ	MOTA	SHIFT REG	72-82
65	54C989	MM54C989J	NSC	RAM	21-51	175	54LS194	SN54LS194AJ	TII	SHIFT REG	72-82
66	54F189	54F189DM	FSC	RAM	20-2	176	54LS194	SN54LS194AW	AMD	SHIFT REG	72-83
67	54F189	54F189FM	FSC	RAM	20-3	177	54LS194	SN54LS194AW	MOTA	SHIFT REG	72-83
68	54F289	54F289DM	FSC	RAM	20-4	178	54LS194	SN54LS194AW	TII	SHIFT REG	72-83
69	54F289	54F289FM	FSC	RAM	20-5	179	54LS194	54LS194ADM	FSC	SHIFT REG	72-23
70	54L91	SN54L91J	TII	SHIFT REG	83-59	180	54LS194	54LS194AFM	FSC	SHIFT REG	72-24
71	54L91	SN54L91N	TII	SHIFT REG	83-60	181	54LS194	54LS194AJ	RTN	SHIFT REG	72-25
72	54L91	SN54L91T	TII	SHIFT REG	83-61	182	54LS194	54LS194AW	RTN	SHIFT REG	72-26
73	54L91	ZN54L91E	FERB	SHIFT REG	83-64	183	54LS194	54LS194AF	PHIN	SHIFT REG	71-17
74	54L91	ZN54L91J	FERB	SHIFT REG	83-65	184	54LS194	54LS194AF	SIC	SHIFT REG	71-17
75	54L95	SN54L95J	TII	SHIFT REG	67-99	185	54LS194	54LS194AF	VALG	SHIFT REG	71-17
76	54L95	SN54L95T	TII	SHIFT REG	67-100	186	54LS194	54LS194AF	PHIN	SHIFT REG	71-18
77	54L95	ZN54L95E	FERB	SHIFT REG	68-4	187	54LS194	54LS194AW	SIC	SHIFT REG	71-18
78	54L95	ZN54L95J	FERB	SHIFT REG	68-5	188	54LS194	54LS194AW	VALG	SHIFT REG	71-18
79	54L96	SN54L96J	TII	SHIFT REG	75-101	189	54LS195	SN54LS195AJ	AMD	SHIFT REG	72-84
80	54L96	SN54L96E	FERB	SHIFT REG	76-2	190	54LS195	SN54LS195AJ	MOTA	SHIFT REG	72-84
81	54L96	SN54L96J	FERB	SHIFT REG	76-3	191	54LS195	SN54LS195AJ	TII	SHIFT REG	72-84
82	54L99	SN54L99J	TII	SHIFT REG	67-101	192	54LS195	SN54LS195AW	AMD	SHIFT REG	72-85
83	54L164	SN54L164J	TII	SHIFT REG	82-70	193	54LS195	SN54LS195AW	MOTA	SHIFT REG	72-85
84	54L164	SN54L164N	TII	SHIFT REG	82-71	194	54LS195	SN54LS195AW	TII	SHIFT REG	72-85
85	54L164	SN54L164T	TII	SHIFT REG	82-72	195	54LS195	54LS195ADM	FSC	SHIFT REG	72-27
86	54L164	ZN54L164E	FERB	SHIFT REG	82-76	196	54LS195	54LS195AFM	FSC	SHIFT REG	72-28
87	54L164	ZN54L164J	FERB	SHIFT REG	82-77	197	54LS195	54LS195AJ	RTN	SHIFT REG	72-29
88	54LS89	SN54LS89J	MOTA	RAM	19-88	198	54LS195	54LS195AW	RTN	SHIFT REG	72-30
89	54LS89	SN54LS89W	MOTA	RAM	19-89	199	54LS195	54LS195AF	PHIN	SHIFT REG	72-72
90	54LS89	54LS89DM	FSC	RAM	19-79	200	54LS195	54LS195AF	SIC	SHIFT REG	72-72
91	54LS89	54LS89FM	FSC	RAM	19-80	201	54LS195	54LS195AF	VALG	SHIFT REG	72-72
92	54LS91	SN54LS91J	TII	SHIFT REG	83-89	202	54LS195	54LS195AW	PHIN	SHIFT REG	72-73
93	54LS91	SN54LS91W	TII	SHIFT REG	83-90	203	54LS195	54LS195AW	SIC	SHIFT REG	72-73
94	54LS91	54LS91J	RTN	SHIFT REG	83-68	204	54LS195	54LS195AW	VALG	SHIFT REG	72-73
95	54LS91	54LS91W	RTN	SHIFT REG	83-69	205	54LS200	SN54LS200AJ	TII	RAM	23-57
96	54LS95	SN54LS95AJ	TII	SHIFT REG	72-16	206	54LS200	SN54LS200AW	TII	RAM	23-58
97	54LS95	SN54LS95AW	TII	SHIFT REG	72-17	207	54LS202	SN54LS202J	TII	RAM	23-5
98	54LS95	SN54LS95BJ	MOTA	SHIFT REG	72-78	208	54LS202	SN54LS202W	TII	RAM	23-6
99	54LS95	SN54LS95BJ	TII	SHIFT REG	72-78	209	54LS207	SN54LS207J	TII	RAM	24-97
100	54LS95	SN54LS95BW	MOTA	SHIFT REG	72-79	210	54LS208	SN54LS208J	TII	RAM	24-98
101	54LS95	SN54LS95BW	TII	SHIFT REG	72-79	211	54LS214	SN54LS214J	TII	RAM	28-89
102	54LS95	54LS95BDM	FSC	SHIFT REG	72-21	212	54LS215	SN54LS215J	TII	RAM	28-73
103	54LS95	54LS95BFM	FSC	SHIFT REG	72-22	213	54LS219	SN54LS219J	TII	RAM	19-92
104	54LS95	54LS95BJ	RTN	SHIFT REG	70-13	214	54LS219	SN54LS219W	TII	RAM	19-93
105	54LS95	54LS95BF	PHIN	SHIFT REG	71-15	215	54LS273	SN54LS273J	AMD	SHIFT REG	79-97
106	54LS95	54LS95BF	SIC	SHIFT REG	71-15	216	54LS273	SN54LS273J	MOTA	SHIFT REG	79-97
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	GENERIC NO.						GENERIC NO.				
1	54LS289	SN54LS289J	TII	RAM	19-94	111	54LS386	SN54LS386W	TII	SHIFT REG	75-20
2	54LS289	SN54LS289W	MOTA	RAM	19-96	112	54LS388	S54LS388F	PHIN	SHIFT REG	71-21
3	54LS289	SN54LS289W	TII	RAM	19-96	113	54LS388	S54LS388F	SIC	SHIFT REG	71-21
4	54LS289	54LS289DM	FSC	RAM	20-69	114	54LS388	S54LS388F	VALG	SHIFT REG	71-21
5	54LS289	54LS289FM	FSC	RAM	20-70	115	54LS389	S54LS389F	PHIN	SHIFT REG	71-22
6	54LS289	S54LS289F	PHIN	RAM	19-86	116	54LS389	S54LS389F	SIC	SHIFT REG	71-22
7	54LS289	S54LS289F	SIC	RAM	19-86	117	54LS389	S54LS389F	VALG	SHIFT REG	71-22
8	54LS289	S54LS289F	VALG	RAM	19-86	118	54LS389	S54LS389W	PHIN	SHIFT REG	71-23
9	54LS289	S54LS289W	PHIN	RAM	19-87	119	54LS389	S54LS389W	SIC	SHIFT REG	71-23
10	54LS289	S54LS289W	SIC	RAM	19-87	120	54LS389	S54LS389W	VALG	SHIFT REG	71-23
11	54LS289	S54LS289W	VALG	RAM	19-87	121	54LS478	SN54LS478J	TII	ROM	57-74
12	54LS295	SN54LS295AJ	MOTA	SHIFT REG	72-86	122	54LS479	SN54LS479J	TII	ROM	57-75
13	54LS295	SN54LS295AJ	TII	SHIFT REG	72-86	123	54LS574	SN54LS574J	MOTA	SHIFT REG	80-42
14	54LS295	SN54LS295AW	MOTA	SHIFT REG	72-87	124	54LS574	SN54LS574W	MOTA	SHIFT REG	80-43
15	54LS295	SN54LS295AW	TII	SHIFT REG	72-87	125	54LS670	SN54LS670J	MOTA	RAM	18-17
16	54LS295	SN54LS295BJ	TII	SHIFT REG	71-24	126	54LS670	SN54LS670J	TII	RAM	18-17
17	54LS295	SN54LS295BW	TII	SHIFT REG	71-25	127	54LS670	SN54LS670W	MOTA	RAM	18-18
18	54LS295	54LS295ADM	FSC	SHIFT REG	72-31	128	54LS670	SN54LS670W	TII	RAM	18-18
19	54LS295	54LS295AFM	FSC	SHIFT REG	72-32	129	54LS670	54LS670DM	FSC	RAM	18-5
20	54LS295	54LS295AJ	RTN	SHIFT REG	72-33	130	54LS670	54LS670FM	FSC	RAM	18-6
21	54LS295	54LS295AW	RTN	SHIFT REG	72-34	131	54LS670	54LS670J	RTN	RAM	18-7
22	54LS295	S54LS295BF	PHIN	SHIFT REG	72-74	132	54LS670	54LS670W	RTN	RAM	18-8
23	54LS295	S54LS295BF	SIC	SHIFT REG	72-74	133	54LS670	S54LS670F	PHIN	RAM	18-68
24	54LS295	S54LS295BF	VALG	SHIFT REG	72-74	134	54LS670	S54LS670F	SIC	RAM	18-68
25	54LS295	S54LS295BW	PHIN	SHIFT REG	72-75	135	54LS670	S54LS670F	VALG	RAM	18-68
26	54LS295	S54LS295BW	SIC	SHIFT REG	72-75	136	54LS670	S54LS670W	PHIN	RAM	18-69
27	54LS295	S54LS295BW	VALG	SHIFT REG	72-75	137	54LS670	S54LS670W	SIC	RAM	18-69
28	54LS298	S54LS298F	PHIN	SHIFT REG	71-19	138	54LS670	S54LS670W	VALG	RAM	18-69
29	54LS298	S54LS298F	SIC	SHIFT REG	71-19	139	54LS673	SN54LS673J	TII	SHIFT REG	84-93
30	54LS298	S54LS298F	VALG	SHIFT REG	71-19	140	54LS673	SN54LS673W	TII	SHIFT REG	84-94
31	54LS298	S54LS298W	PHIN	SHIFT REG	71-20	141	54LS674	SN54LS674J	TII	SHIFT REG	84-95
32	54LS298	S54LS298W	SIC	SHIFT REG	71-20	142	54LS674	SN54LS674W	TII	SHIFT REG	84-96
33	54LS298	S54LS298W	VALG	SHIFT REG	71-20	143	54S89	S54S89F	PHIN	RAM	20-109
34	54LS299	SN54LS299J	MMI	SHIFT REG	79-99	144	54S89	S54S89F	SIC	RAM	20-109
35	54LS299	SN54LS299J	MOTA	SHIFT REG	79-99	145	54S89	S54S89F	VALG	RAM	20-109
36	54LS299	SN54LS299J	TII	SHIFT REG	79-99	146	54S172	S54S172F	PHIN	RAM	18-96
37	54LS299	SN54LS299W	AMD	SHIFT REG	83-40	147	54S172	S54S172F	SIC	RAM	18-96
38	54LS299	SN54LS299W	MOTA	SHIFT REG	83-40	148	54S172	S54S172N	PHIN	RAM	18-97
39	54LS299	54LS299DM	FSC	SHIFT REG	80-9	149	54S172	S54S172N	SIC	RAM	18-97
40	54LS299	54LS299FM	FSC	SHIFT REG	80-10	150	54S174	SN54S174J	AMD	SHIFT REG	78-23
41	54LS299	S54LS299F	PHIN	SHIFT REG	80-33	151	54S174	SN54S174J	TII	SHIFT REG	78-23
42	54LS299	S54LS299F	SIC	SHIFT REG	80-33	152	54S174	SN54S174W	AMD	SHIFT REG	78-24
43	54LS299	S54LS299F	VALG	SHIFT REG	80-33	153	54S174	SN54S174W	TII	SHIFT REG	78-24
44	54LS300	SN54LS300AJ	TII	RAM	23-59	154	54S175	SN54S175J	AMD	SHIFT REG	74-56
45	54LS300	SN54LS300AW	TII	RAM	23-60	155	54S175	SN54S175J	TII	SHIFT REG	74-56
46	54LS302	SN54LS302J	TII	RAM	23-7	156	54S175	SN54S175W	AMD	SHIFT REG	74-57
47	54LS302	SN54LS302W	TII	RAM	23-8	157	54S175	SN54S175W	TII	SHIFT REG	74-57
48	54LS314	SN54LS314J	TII	RAM	28-90	158	54S188	DM54S188J	NSC	ROM	44-87
49	54LS315	SN54LS315J	TII	RAM	28-74	159	54S188	SN54S188J	AMD	RAM	20-32
50	54LS319	SN54LS319J	TII	RAM	19-96	160	54S189	SN54S189W	AMD	RAM	20-33
51	54LS319	SN54LS319W	TII	RAM	19-97	161	54S189	54S189FM	FSC	RAM	20-80
52	54LS322	SN54LS322J	AMD	SHIFT REG	80-35	162	54S189	S54S189F	PHIN	RAM	20-92
53	54LS322	SN54LS322J	MMI	SHIFT REG	80-35	163	54S189	S54S189F	SIC	RAM	20-92
54	54LS322	SN54LS322J	MOTA	SHIFT REG	80-35	164	54S189	S54S189F	VALG	RAM	20-92
55	54LS322	SN54LS322J	TII	SHIFT REG	80-35	165	54S194	SN54S194J	AMD	SHIFT REG	74-48
56	54LS322	SN54LS322W	AMD	SHIFT REG	80-36	166	54S194	SN54S194J	TII	SHIFT REG	74-48
57	54LS322	SN54LS322W	MOTA	SHIFT REG	80-36	167	54S194	SN54S194W	AMD	SHIFT REG	74-49
58	54LS322	54LS322DM	FSC	SHIFT REG	80-11	168	54S194	SN54S194W	TII	SHIFT REG	74-49
59	54LS322	54LS322FM	FSC	SHIFT REG	80-12	169	54S194	54S194DM	FSC	SHIFT REG	74-21
60	54LS323	SN54LS323J	AMD	SHIFT REG	80-37	170	54S194	54S194FM	FSC	SHIFT REG	74-22
61	54LS323	SN54LS323J	MMI	SHIFT REG	80-37	171	54S194	AM54S194J	AMD	SHIFT REG	74-60
62	54LS323	SN54LS323J	MOTA	SHIFT REG	80-37	172	54S194	AM54S194W	AMD	SHIFT REG	74-61
63	54LS323	SN54LS323J	TII	SHIFT REG	80-37	173	54S194	S54S194J	PHIN	SHIFT REG	74-46
64	54LS323	SN54LS323W	AMD	SHIFT REG	80-38	174	54S194	S54S194J	SIC	SHIFT REG	74-46
65	54LS323	SN54LS323W	MOTA	SHIFT REG	80-38	175	54S194	S54S194W	PHIN	SHIFT REG	74-47
66	54LS323	54LS323DM	FSC	SHIFT REG	80-13	176	54S194	S54S194W	SIC	SHIFT REG	74-47
67	54LS323	54LS323FM	FSC	SHIFT REG	80-14	177	54S195	SN54S195J	AMD	SHIFT REG	74-39
68	54LS323	S54LS323F	PHIN	SHIFT REG	80-34	178	54S195	SN54S195J	TII	SHIFT REG	74-39
69	54LS323	S54LS323F	SIC	SHIFT REG	80-34	179	54S195	SN54S195W	AMD	SHIFT REG	74-40
70	54LS323	S54LS323F	VALG	SHIFT REG	80-34	180	54S195	SN54S195W	TII	SHIFT REG	74-40
71	54LS373	SN54LS373J	TII	SHIFT REG	80-39	181	54S195	RC54S195W	MULB	SHIFT REG	73-25
72	54LS374	SN54LS374J	AMD	SHIFT REG	80-40	182	54S195	AM54S195J	AMD	SHIFT REG	74-62
73	54LS374	SN54LS374J	MOTA	SHIFT REG	80-40	183	54S195	AM54S195W	AMD	SHIFT REG	74-63
74	54LS374	SN54LS374J	TII	SHIFT REG	80-40	184	54S195	S54S195J	PHIN	SHIFT REG	73-29
75	54LS374	SN54LS374W	AMD	SHIFT REG	80-41	185	54S195	S54S195J	SIC	SHIFT REG	73-29
76	54LS374	SN54LS374W	MOTA	SHIFT REG	80-41	186	54S195	S54S195W	PHIN	SHIFT REG	73-30
77	54LS377	SN54LS377J	AMD	SHIFT REG	79-100	187	54S195	S54S195W	SIC	SHIFT REG	73-30
78	54LS377	SN54LS377J	MOTA	SHIFT REG	79-100	188	54S200	SN54S200AJ	TII	RAM	23-61
79	54LS377	SN54LS377J	TII	SHIFT REG	79-100	189	54S200	SN54S200AJ	TII	RAM	23-62
80	54LS377	SN54LS377W	AMD	SHIFT REG	79-101	190	54S200	RC54S200F	MULB	RAM	23-72
81	54LS377	SN54LS377W	MOTA	SHIFT REG	79-101	191	54S201	RC54S201F	MULB	RAM	22-72
82	54LS378	SN54LS378J	MOTA	SHIFT REG	77-101	192	54S207	SN54S207J	TII	RAM	24-91
83	54LS378	SN54LS378J	TII	SHIFT REG	77-101	193	54S208	SN54S208J	TII	RAM	24-92
84	54LS378	SN54LS378W	MOTA	SHIFT REG	77-102	194	54S214	SN54S214J	TII	RAM	28-75
85	54LS378	SN54LS378W	TII	SHIFT REG	77-102	195	54S281	SN54S281J	TII	SHIFT REG	74-3
86	54LS378	54LS378DM	FSC	SHIFT REG	77-94	196	54S281	SN54S281W	TII	SHIFT REG	74-4
87	54LS378	54LS378FM	FSC	SHIFT REG	77-95	197	54S287	DM54S287J	NSC	ROM	46-108
88	54LS379	SN54LS379J	MOTA	SHIFT REG	72-88	198	54S288	DM54S288J	NSC	ROM	44-86
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91	54LS379	SN54LS379W	TII	SHIFT REG	72-89	201	54S289	54S289DM	FSC	RAM	20-81
92	54LS379	54LS379DM	FSC	SHIFT REG	72-35	202	54S289	54S289FM	FSC	RAM	20-82
93	54LS379	54LS379FM	FSC	SHIFT REG	72-36	203	54S289	SN54S289J	TII	SHIFT REG	80-65
94	54LS395	SN54LS395AJ	TII	SHIFT REG	71-28	204	54S300	SN54S300AJ	TII	RAM	23-63
95	54LS395	SN54LS395AW	TII	SHIFT REG	71-27	205	54S300	SN54S300AW	TII	RAM	23-64
96	54LS395	SN54LS395AJ	MOTA	SHIFT REG	72-80	206	54S301	SN54S301J	TII	RAM	22-09
97	54LS395	SN54LS395J	TII	SHIFT REG	72-80	207	54S301	SN54S301W	TII	RAM	22-10
98	54LS395	SN54LS395W	MOTA	SHIFT REG	72-81	208	54S301	RC54S301F	MULB	RAM	22-73
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5	54S455	SN54S455J	TI	ROM	59-58	115	63PS481	63PS481N	MMI	ROM	52-17
6	54S472	DM54S472J	NSC	ROM	52-97	116	63PS482	63PS482F	MMI	ROM	52-18
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9	54S474	SN54S474J	TI	ROM	53-7	119	63PS483	63PS483F	MMI	ROM	52-21
10	54S474	SN54S474W	TI	ROM	53-8	120	63PS483	63PS483J	MMI	ROM	52-22
11	54S475	DM54S475J	NSC	ROM	52-100	121	63PS483	63PS483N	MMI	ROM	52-23
12	54S475	SN54S475J	TI	ROM	53-9	122	63PS840	63PS840F	MMI	ROM	59-51
13	54S475	SN54S475W	TI	ROM	53-10	123	63PS840	63PS840J	MMI	ROM	59-52
14	54S476	SN54S476J	TI	ROM	54-34	124	63PS840	63PS840N	MMI	ROM	59-53
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16	54S478	SN54S478J	TI	ROM	57-27	126	63PS841	63PS841J	MMI	ROM	59-55
17	54S479	SN54S479J	TI	ROM	57-28	127	63PS841	63PS841N	MMI	ROM	59-56
18	54S570	DM54S570J	NSC	ROM	50-33	128	63PS880	63PS880F	MMI	ROM	57-6
19	54S571	DM54S571J	NSC	ROM	50-34	129	63PS880	63PS880J	MMI	ROM	57-7
20	54S572	DM54S572J	NSC	ROM	54-104	130	63PS880	63PS880N	MMI	ROM	57-8
21	54S573	DM54S573J	NSC	ROM	54-105	131	63PS881	63PS881F	MMI	ROM	57-9
22	54S2708	SN54S2708J	TI	ROM	57-29	132	63PS881	63PS881J	MMI	ROM	57-10
23	54S3708	SN54S3708J	TI	ROM	57-30	133	63PS881	63PS881N	MMI	ROM	57-11
24	57S376	57S376J	MMI	SHIFT REG	80-15	134	63PS1840	63PS1840J	MMI	ROM	62-41
25	57S374	57S374J	MMI	SHIFT REG	80-68	135	63PS1840	63PS1840N	MMI	ROM	62-42
26	57S376	57S376J	MMI	SHIFT REG	80-69	136	63PS1841	63PS1841J	MMI	ROM	62-43
27	57S378	57S378J	MMI	SHIFT REG	80-70	137	63PS1841	63PS1841N	MMI	ROM	62-44
28	61	SM61	TRW	SHIFT REG	70-41	138	63PS1880	63PS1880F	MMI	ROM	61-46
29	63	SM63	TRW	SHIFT REG	70-42	139	63PS1880	63PS1880J	MMI	ROM	61-47
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31	63LS080	63LS080J	MMI	ROM	44-77	141	63PS1881	63PS1881F	MMI	ROM	61-49
32	63LS080	63LS080N	MMI	ROM	44-78	142	63PS1881	63PS1881J	MMI	ROM	61-50
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35	63LS081	63LS081N	MMI	ROM	44-81	145	63RA281	63RA281N	MMI	ROM	48-32
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37	63LS140	63LS140J	MMI	ROM	46-85	147	63RA283	63RA283N	MMI	ROM	48-34
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39	63LS141	63LS141F	MMI	ROM	46-87	149	63RA441	63RA441J	MMI	ROM	54-13
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41	63LS141	63LS141N	MMI	ROM	46-89	151	63RA481	63RA481J	MMI	ROM	51-98
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43	63LS240	63LS240J	MMI	ROM	50-13	153	63RA483	63RA483J	MMI	ROM	51-100
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45	63LS241	63LS241F	MMI	ROM	50-15	155	63RA841	63RA841J	MMI	ROM	59-41
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53	63LS440	63LS440J	MMI	ROM	54-75	163	63RA1681	63RA1681J	MMI	ROM	61-23
54	63LS440	63LS440N	MMI	ROM	54-76	164	63RA1681	63RA1681N	MMI	ROM	61-24
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58	63LS480	63LS480J	MMI	ROM	52-48	168	63RS441	63RS441J	MMI	ROM	54-16
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61	63LS481	63LS481N	MMI	ROM	52-51	171	63RS841	63RS841N	MMI	ROM	59-44
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63	63LS482	63LS482J	MMI	ROM	52-53	173	63RS1641	63RS1641N	MMI	ROM	62-48
64	63LS482	63LS482N	MMI	ROM	52-54	174	63S080	63S080F	MMI	ROM	44-58
65	63LS483	63LS483F	MMI	ROM	52-55	175	63S080	63S080J	MMI	ROM	44-59
66	63LS483	63LS483J	MMI	ROM	52-56	176	63S080	63S080N	MMI	ROM	44-60
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68	63LS840	63LS840F	MMI	ROM	59-80	178	63S081	63S081J	MMI	ROM	44-62
69	63LS840	63LS840J	MMI	ROM	59-81	179	63S081	63S081N	MMI	ROM	44-63
70	63LS840	63LS840N	MMI	ROM	59-82	180	63S140	63S140F	MMI	ROM	48-58
71	63LS841	63LS841F	MMI	ROM	59-83	181	63S140	63S140J	MMI	ROM	48-59
72	63LS841	63LS841J	MMI	ROM	59-84	182	63S140	63S140N	MMI	ROM	46-60
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74	63LS880	63LS880F	MMI	ROM	57-50	184	63S141	63S141J	MMI	ROM	46-62
75	63LS880	63LS880J	MMI	ROM	57-51	185	63S141	63S141N	MMI	ROM	46-63
76	63LS880	63LS880N	MMI	ROM	57-52	186	63S240	63S240F	MMI	ROM	49-93
77	63LS881	63LS881F	MMI	ROM	57-53	187	63S240	63S240J	MMI	ROM	49-94
78	63LS881	63LS881J	MMI	ROM	57-54	188	63S240	63S240N	MMI	ROM	49-95
79	63LS881	63LS881N	MMI	ROM	57-55	189	63S241	63S241F	MMI	ROM	49-96
80	63LS1640	63LS1640J	MMI	ROM	62-61	190	63S241	63S241J	MMI	ROM	49-97
81	63LS1640	63LS1640N	MMI	ROM	62-62	191	63S241	63S241N	MMI	ROM	49-98
82	63LS1641	63LS1641J	MMI	ROM	62-63	192	63S280	63S280J	MMI	ROM	48-35
83	63LS1641	63LS1641N	MMI	ROM	62-64	193	63S280	63S280N	MMI	ROM	48-36
84	63LS1680	63LS1680F	MMI	ROM	61-67	194	63S281	63S281J	MMI	ROM	48-37
85	63LS1680	63LS1680J	MMI	ROM	61-68	195	63S281	63S281N	MMI	ROM	48-38
86	63LS1680	63LS1680N	MMI	ROM	61-69	196	63S440	63S440F	MMI	ROM	54-40
87	63LS1681	63LS1681F	MMI	ROM	61-70	197	63S440	63S440J	MMI	ROM	54-41
88	63LS1681	63LS1681J	MMI	ROM	61-71	198	63S440	63S440N	MMI	ROM	54-42
89	63LS1681	63LS1681N	MMI	ROM	61-72	199	63S441	63S441F	MMI	ROM	54-43
90	63PS140	63PS140F	MMI	ROM	46-52	200	63S441	63S441J	MMI	ROM	54-44
91	63PS140	63PS140J	MMI	ROM	46-53	201	63S441	63S441N	MMI	ROM	54-45
92	63PS140	63PS140N	MMI	ROM	46-54	202	63S480	63S480J	MMI	ROM	51-102
93	63PS141	63PS141F	MMI	ROM	46-55	203	63S480	63S480N	MMI	ROM	51-103
94	63PS141	63PS141J	MMI	ROM	46-56	204	63S481	63S481J	MMI	ROM	51-104
95	63PS141	63PS141N	MMI	ROM	46-57	205	63S481	63S481N	MMI	ROM	51-105
96	63PS240	63PS240F	MMI	ROM	49-87	206	63S482	63S482F	MMI	ROM	51-106
97	63PS240	63PS240J	MMI	ROM	49-88	207	63S482	63S482J	MMI	ROM	51-107
98	63PS240	63PS240N	MMI	ROM	49-89	208	63S482	63S482N	MMI	ROM	51-108
99	63PS241	63PS241F	MMI	ROM	49-90	209	63S483	63S483F	MMI	ROM	52-1
100	63PS241	63PS241J	MMI	ROM	49-91	210	63S483	63S483J	MMI	ROM	52-2
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103	63PS280	63PS280N	MMI	ROM	48-44	213	63S840	63S840J	MMI	ROM	59-63
104	63PS281	63PS281J	MMI	ROM	48-45	214	63S840	63S840N	MMI	ROM	59-64
105	63PS281	63PS281N	MMI	ROM	48-46	215	63S841	63S841F	MMI	ROM	59-65
106	63PS440	63PS440F	MMI	ROM	54-24	216	63S841	63S841J	MMI	ROM	59-66
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5	63S1640	63S1640N	MMI	ROM	62-54	115	73	SM73	TRW	SHIFT REG	70-44
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7	63S1641	63S1641N	MMI	ROM	62-56	117	74C89	MM74C89N	NSC	RAM	21-40
8	63S1680	63S1680F	MMI	ROM	61-34	118	74C200	MM74C200J	NSC	RAM	24-20
9	63S1680	63S1680J	MMI	ROM	61-35	119	74C200	MM74C200N	NSC	RAM	24-21
10	63S1680	63S1680N	MMI	ROM	61-36	120	74C910	MM74C910J	NSC	RAM	21-103
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12	63S1681	63S1681J	MMI	ROM	61-38	122	74C920	MM74C920J	NSC	RAM	25-23
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16	65X08	IM65X08-1MD	INL	RAM	30-38	126	74C921	MM74C921J-3	NSC	RAM	25-30
17	65X08	IM65X08-1MF	INL	RAM	30-39	127	74C921	MM74C921N-3	NSC	RAM	25-26
18	65X08	IM65X08-1MJ	INL	RAM	30-40	128	74C921	MM74C921N-3	NSC	RAM	25-31
19	65X08	IM65X08A-1ID	INL	RAM	30-32	129	74C929	MM74C929J	NSC	RAM	29-69
20	65X08	IM65X08A-1IJ	INL	RAM	30-33	130	74C929	MM74C929J-3	NSC	RAM	29-104
21	65X08	IM65X08A-1MD	INL	RAM	30-46	131	74C929	MM74C929N	NSC	RAM	29-70
22	65X08	IM65X08A-1MF	INL	RAM	30-47	132	74C929	MM74C929N-3	NSC	RAM	29-105
23	65X08	IM65X08A-1MJ	INL	RAM	30-48	133	74C930	MM74C930J	NSC	RAM	29-71
24	65X08	IM65X08AID	INL	RAM	30-49	134	74C930	MM74C930J-3	NSC	RAM	29-106
25	65X08	IM65X08AIJ	INL	RAM	30-50	135	74C930	MM74C930N	NSC	RAM	29-72
26	65X08	IM65X08AMD	INL	RAM	30-51	136	74C930	MM74C930N-3	NSC	RAM	29-107
27	65X08	IM65X08AMF	INL	RAM	30-52	137	74C989	MM74C989J	NSC	RAM	21-52
28	65X08	IM65X08AMJ	INL	RAM	30-53	138	74C989	MM74C989N	NSC	RAM	21-53
29	65X08	IM65X08CJ	INL	RAM	30-71	139	74F189	74F189DC	FSC	RAM	20-6
30	65X08	IM65X08HJ	INL	RAM	30-61	140	74F189	74F189FC	FSC	RAM	20-7
31	65X08	IM65X08ID	INL	RAM	30-62	141	74F189	74F189PC	FSC	RAM	20-8
32	65X08	IM65X08IJ	INL	RAM	30-63	142	74F289	74F289DC	FSC	RAM	20-9
33	65X08	IM65X08MD	INL	RAM	30-64	143	74F289	74F289FC	FSC	RAM	20-10
34	65X08	IM65X08MF	INL	RAM	30-65	144	74F289	74F289PC	FSC	RAM	20-11
35	65X18	IM65X18-1ID	INL	RAM	30-41	145	74L91	SN74L91J	TII	SHIFT REG	83-62
36	65X18	IM65X18-1IJ	INL	RAM	30-42	146	74L91	SN74L91N	TII	SHIFT REG	83-63
37	65X18	IM65X18-1MD	INL	RAM	30-43	147	74L91	SN74L91E	FERB	SHIFT REG	83-66
38	65X18	IM65X18-1MF	INL	RAM	30-44	148	74L91	SN74L91J	FERB	SHIFT REG	83-67
39	65X18	IM65X18-1MJ	INL	RAM	30-45	149	74L95	SN74L95J	TII	SHIFT REG	67-102
40	65X18	IM65X18A-1ID	INL	RAM	30-34	150	74L95	SN74L95N	TII	SHIFT REG	68-1
41	65X18	IM65X18A-1IJ	INL	RAM	30-35	151	74L95	SN74L95E	FERB	SHIFT REG	68-6
42	65X18	IM65X18A-1MF	INL	RAM	30-54	152	74L95	SN74L95J	FERB	SHIFT REG	68-7
43	65X18	IM65X18A-1MJ	INL	RAM	30-55	153	74L96	SN74L96J	TII	SHIFT REG	75-102
44	65X18	IM65X18AID	INL	RAM	30-56	154	74L96	SN74L96N	TII	SHIFT REG	76-1
45	65X18	IM65X18AIJ	INL	RAM	30-57	155	74L96	SN74L96E	FERB	SHIFT REG	76-4
46	65X18	IM65X18AMD	INL	RAM	30-58	156	74L96	SN74L96J	FERB	SHIFT REG	76-5
47	65X18	IM65X18AMF	INL	RAM	30-59	157	74L99	SN74L99J	TII	SHIFT REG	68-2
48	65X18	IM65X18AMJ	INL	RAM	30-60	158	74L99	SN74L99N	TII	SHIFT REG	68-3
49	65X18	IM65X18CJ	INL	RAM	30-72	159	74L164	SN74L164J	TII	SHIFT REG	82-73
50	65X18	IM65X18ID	INL	RAM	30-66	160	74L164	SN74L164N	TII	SHIFT REG	82-74
51	65X18	IM65X18IJ	INL	RAM	30-67	161	74L164	SN74L164T	TII	SHIFT REG	82-75
52	65X18	IM65X18MD	INL	RAM	30-68	162	74L164	SN74L164E	FERB	SHIFT REG	82-78
53	65X18	IM65X18MF	INL	RAM	30-69	163	74L164	SN74L164J	FERB	SHIFT REG	82-79
54	65X18	IM65X18MJ	INL	RAM	30-70	164	74LS89	SN74LS89J	MOTA	RAM	19-98
55	66L41	MCM66L41-20C	MOTA	RAM	39-76	165	74LS89	SN74LS89N	MOTA	RAM	19-99
56	66L41	MCM66L41-20JL	MOTA	RAM	39-77	166	74LS89	SN74LS89W	MOTA	RAM	19-100
57	66L41	MCM66L41-20NL	MOTA	RAM	39-78	167	74LS89	74LS89DC	FSC	RAM	19-81
58	66L41	MCM66L41-20P	MOTA	RAM	39-79	168	74LS89	74LS89FC	FSC	RAM	19-82
59	66L41	MCM66L41-25C	MOTA	RAM	39-99	169	74LS89	74LS89PC	FSC	RAM	19-83
60	66L41	MCM66L41-25JL	MOTA	RAM	39-100	170	74LS91	SN74LS91J	TII	SHIFT REG	83-91
61	66L41	MCM66L41-25NL	MOTA	RAM	39-101	171	74LS91	SN74LS91N	TII	SHIFT REG	83-92
62	66L41	MCM66L41-25P	MOTA	RAM	39-102	172	74LS91	74LS91J	RTN	SHIFT REG	83-70
63	66L41	MCM66L41-30C	MOTA	RAM	40-8	173	74LS91	74LS91N	RTN	SHIFT REG	83-71
64	66L41	MCM66L41-30JL	MOTA	RAM	40-9	174	74LS91	M74LS91P	MITJ	SHIFT REG	83-79
65	66L41	MCM66L41-30NL	MOTA	RAM	40-10	175	74LS95	SN74LS95AJ	TII	SHIFT REG	72-18
66	66L41	MCM66L41-30P	MOTA	RAM	40-11	176	74LS95	SN74LS95AN	TII	SHIFT REG	72-19
67	66L41	MCM66L41-45C	MOTA	RAM	40-38	177	74LS95	SN74LS95AW	TII	SHIFT REG	72-20
68	66L41	MCM66L41-45JL	MOTA	RAM	40-39	178	74LS95	SN74LS95BJ	MOTA	SHIFT REG	72-92
69	66L41	MCM66L41-45NL	MOTA	RAM	40-40	179	74LS95	SN74LS95BJ	TII	SHIFT REG	72-92
70	66L41	MCM66L41-45P	MOTA	RAM	40-41	180	74LS95	SN74LS95BN	MOTA	SHIFT REG	72-93
71	67LS376	67LS376J	MMI	SHIFT REG	80-16	181	74LS95	SN74LS95BN	TII	SHIFT REG	72-93
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75	67S376	67S376J	MMI	SHIFT REG	80-73	185	74LS95	74LS95BF	RTN	SHIFT REG	70-14
76	67S376	67S376N	MMI	SHIFT REG	78-64	186	74LS95	74LS95BPC	FSC	SHIFT REG	72-41
77	67S378	67S378J	MMI	SHIFT REG	80-74	187	74LS95	74LS95BWB	RTN	SHIFT REG	70-15
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79	68	S68A10	AMI	RAM	22-42	189	74LS95	N74LS95BF	SIC	SHIFT REG	71-5
80	68	S68B10	AMI	RAM	22-41	190	74LS95	N74LS95BF	VALG	SHIFT REG	71-5
81	68	MCM68A10CL	MOTA	RAM	22-59	191	74LS95	N74LS95BN	PHIN	SHIFT REG	71-6
82	68	MCM68A10CP	MOTA	RAM	22-60	192	74LS95	N74LS95BN	SIC	SHIFT REG	71-6
83	68	MCM68A10L	MOTA	RAM	22-61	193	74LS95	N74LS95BN	VALG	SHIFT REG	71-6
84	68	MCM68A10P	MOTA	RAM	22-62	194	74LS95	M74LS95BP	MITJ	SHIFT REG	73-91
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91	68	MCM68A316AP	MOTA	ROM	60-75	201	74LS96	N74LS96N	SIC	SHIFT REG	76-53
92	68	MCM68A316EP	MOTA	ROM	60-76	202	74LS96	N74LS96N	VALG	SHIFT REG	76-53
93	68	MCM68A316EP	MOTA	ROM	60-77	203	74LS96	M74LS96P	MITJ	SHIFT REG	76-21
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95	68	MCM68A332P	MOTA	ROM	62-84	205	74LS164	SN74LS164J	MOTA	SHIFT REG	83-20
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48	82S137	N82S137N	VALG	ROM	54-73	158	82S201	N82S201I	PHIN	ROM	45-38
49	82S140	RC82S140F	MULB	ROM	53-29	159	82S201	N82S201I	SIC	ROM	45-38
50	82S140	RC82S140N	MULB	ROM	53-30	160	82S201	N82S201I	VALG	ROM	45-38
51	82S140	S82S140F	PHIN	ROM	53-33	161	82S201	N82S201N	MULB	ROM	45-39
52	82S140	S82S140F	SIC	ROM	53-33	162	82S201	N82S201N	PHIN	ROM	45-39
53	82S140	S82S140F	VALG	ROM	53-33	163	82S201	N82S201N	SIC	ROM	45-39
54	82S140	S82S140N	MULB	ROM	53-34	164	82S201	N82S201N	VALG	ROM	45-39
55	82S140	S82S140N	VALG	ROM	53-34	165	82S210	N82S210F	MULB	RAM	27-102
56	82S140	N82S140F	MULB	ROM	53-17	166	82S210	N82S210F	PHIN	RAM	27-102
57	82S140	N82S140F	PHIN	ROM	53-17	167	82S210	N82S210F	SIC	RAM	27-102
58	82S140	N82S140F	SIC	ROM	53-17	168	82S210	N82S210N	MULB	RAM	27-103
59	82S140	N82S140F	VALG	ROM	53-17	169	82S210	N82S210N	PHIN	RAM	27-103
60	82S140	N82S140N	MULB	ROM	53-18	170	82S210	N82S210N	SIC	RAM	27-103
61	82S140	N82S140N	PHIN	ROM	53-18	171	82S212	N82S212F	PHIN	RAM	27-101
62	82S140	N82S140N	SIC	ROM	53-18	172	82S212	N82S212F	SIC	RAM	27-101
63	82S140	N82S140N	VALG	ROM	53-18	173	82S214	RC82S214I	MULB	RAM	47-78
64	82S141	RC82S141F	MULB	ROM	53-31	174	82S214	S82S214F	VALG	ROM	47-79
65	82S141	RC82S141N	MULB	ROM	53-32	175	82S214	S82S214I	PHIN	ROM	47-80
66	82S141	S82S141F	PHIN	ROM	53-35	176	82S214	N82S214F	VALG	ROM	47-67
67	82S141	S82S141F	SIC	ROM	53-35	177	82S214	N82S214I	MULB	ROM	47-68
68	82S141	S82S141F	VALG	ROM	53-35	178	82S214	N82S214I	PHIN	ROM	47-68
69	82S141	N82S141F	MULB	ROM	53-19	179	82S214	N82S214N	VALG	ROM	47-69
70	82S141	N82S141F	PHIN	ROM	53-19	180	82S215	RC82S215I	MULB	ROM	51-35
71	82S141	N82S141F	SIC	ROM	53-19	181	82S215	S82S215F	VALG	ROM	51-36
72	82S141	N82S141F	VALG	ROM	53-19	182	82S215	S82S215I	PHIN	ROM	51-37
73	82S141	N82S141N	MULB	ROM	53-20	183	82S215	N82S215F	VALG	ROM	51-14
74	82S141	N82S141N	PHIN	ROM	53-20	184	82S215	N82S215I	MULB	ROM	51-15
75	82S141	N82S141N	SIC	ROM	53-20	185	82S215	N82S215I	PHIN	ROM	51-15
76	82S141	N82S141N	VALG	ROM	53-20	186	82S215	N82S215N	VALG	ROM	51-16
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78	82S146	N82S146F	PHIN	ROM	52-28	188	82S226	S82S226F	PHIN	ROM	46-20
79	82S146	N82S146F	SIC	ROM	52-28	189	82S226	S82S226F	VALG	ROM	46-20
80	82S146	N82S146F	VALG	ROM	52-28	190	82S226	N82S226B	MULB	ROM	46-14
81	82S147	N82S147F	MULB	ROM	52-29	191	82S226	N82S226F	MULB	ROM	46-15
82	82S147	N82S147F	PHIN	ROM	52-29	192	82S226	N82S226F	PHIN	ROM	46-15
83	82S147	N82S147F	SIC	ROM	52-29	193	82S226	N82S226F	VALG	ROM	46-15
84	82S147	N82S147F	VALG	ROM	52-29	194	82S226	N82S226N	VALG	ROM	45-103
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86	82S180	RC82S180N	MULB	ROM	58-27	196	82S229	S82S229F	PHIN	ROM	46-21
87	82S180	N82S180F	MULB	ROM	58-18	197	82S229	S82S229F	VALG	ROM	46-21
88	82S180	N82S180F	PHIN	ROM	58-18	198	82S229	N82S229B	MULB	ROM	46-16
89	82S180	N82S180F	SIC	ROM	58-18	199	82S229	N82S229F	MULB	ROM	46-17
90	82S180	N82S180F	VALG	ROM	58-18	200	82S229	N82S229F	PHIN	ROM	46-17
91	82S180	N82S180N	MULB	ROM	58-19	201	82S229	N82S229F	VALG	ROM	46-17
92	82S180	N82S180N	PHIN	ROM	58-19	202	82S229	N82S229N	VALG	ROM	45-104
93	82S180	N82S180N	SIC	ROM	58-19	203	82S230	RC82S230F	MULB	ROM	49-56
94	82S180	N82S180N	VALG	ROM	58-19	204	82S230	S82S230F	PHIN	ROM	49-57
95	82S181	RC82S181F	MULB	ROM	58-28	205	82S230	S82S230F	VALG	ROM	49-57
96	82S181	RC82S181N	MULB	ROM	58-29	206	82S230	N82S230F	MULB	ROM	49-54
97	82S181	S82S181F	PHIN	ROM	58-32	207	82S230	N82S230F	PHIN	ROM	49-54
98	82S181	S82S181F	SIC	ROM	58-32	208	82S230	N82S230F	VALG	ROM	49-54
99	82S181	S82S181F	VALG	ROM	58-32	209	82S230	N82S230N	VALG	ROM	49-28
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101	82S181	N82S181F	PHIN	ROM	58-20	211	82S231	S82S231F	PHIN	ROM	49-58
102	82S181	N82S181F	SIC	ROM	58-20	212	82S231	S82S231F	VALG	ROM	49-58
103	82S181	N82S181F	VALG	ROM	58-20	213	82S231	N82S231F	MULB	ROM	49-55
104	82S181	N82S181N	MULB	ROM	58-21	214	82S231	N82S231F	PHIN	ROM	49-55
105	82S181	N82S181N	PHIN	ROM	58-21	215	82S231	N82S231F	VALG	ROM	49-55
106	82S181	N82S181N	SIC	ROM	58-21	216	82S231	N82S231N	VALG	ROM	49-29
107	82S181	N82S181N	VALG	ROM	58-21	217	82S240	RC82S240F	MULB	ROM	49-21
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4	82S240	N82S240N	MULB	ROM	51-49	114	90L80	AM90L80DPC	AMD	RAM	38-3
5	82S240	N82S240N	PHIN	ROM	51-49	115	90L80	AM90L80EDC	AMD	RAM	37-78
6	82S240	N82S240N	VALG	ROM	51-49	116	90L80	AM90L80EPC	AMD	RAM	37-79
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9	82S241	S82S241F	PHIN	ROM	51-54	119	91L01	AM91L01AFM	AMD	RAM	27-65
10	82S241	S82S241F	VALG	ROM	51-54	120	91L01	AM91L01APC	AMD	RAM	27-66
11	82S241	N82S241F	MULB	ROM	51-50	121	91L01	AM91L01BDC	AMD	RAM	27-32
12	82S241	N82S241F	PHIN	ROM	51-50	122	91L01	AM91L01BDM	AMD	RAM	27-33
13	82S241	N82S241F	VALG	ROM	51-50	123	91L01	AM91L01BFM	AMD	RAM	27-34
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15	82S241	N82S241N	PHIN	ROM	51-51	125	91L01	AM91L01CDC	AMD	RAM	27-14
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19	82S280	S82S280I	PHIN	ROM	55-9	129	91L02	AM91L02ADM	AMD	RAM	32-24
20	82S280	N82S280F	VALG	ROM	55-72	130	91L02	AM91L02AFM	AMD	RAM	32-25
21	82S280	N82S280I	MULB	ROM	55-73	131	91L02	AM91L02APC	AMD	RAM	32-26
22	82S280	N82S280I	PHIN	ROM	55-73	132	91L02	AM91L02BDC	AMD	RAM	31-84
23	82S280	N82S280N	VALG	ROM	55-74	133	91L02	AM91L02BDM	AMD	RAM	31-85
24	82S281	RC82S281I	MULB	ROM	55-31	134	91L02	AM91L02BPM	AMD	RAM	31-86
25	82S281	S82S281F	VALG	ROM	55-10	135	91L02	AM91L02BPC	AMD	RAM	31-87
26	82S281	S82S281I	PHIN	ROM	55-11	136	91L02	AM91L02CDC	AMD	RAM	31-39
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29	82S281	N82S281I	PHIN	ROM	55-76	139	91L02	AM91L02DC	AMD	RAM	32-53
30	82S281	N82S281I	VALG	ROM	55-77	140	91L02	AM91L02DM	AMD	RAM	32-54
31	82S290	RC82S290F	MULB	ROM	60-7	141	91L02	AM91L02FM	AMD	RAM	32-55
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33	82S290	S82S290F	PHIN	ROM	60-67	143	91L11	AM91L11ADC	AMD	RAM	27-67
34	82S290	S82S290F	VALG	ROM	60-67	144	91L11	AM91L11ADM	AMD	RAM	27-68
35	82S290	S82S290N	MULB	ROM	60-63	145	91L11	AM91L11AFM	AMD	RAM	27-69
36	82S290	N82S290F	MULB	ROM	60-59	146	91L11	AM91L11APC	AMD	RAM	27-70
37	82S290	N82S290F	PHIN	ROM	60-59	147	91L11	AM91L11BDC	AMD	RAM	27-36
38	82S290	N82S290F	SIC	ROM	60-59	148	91L11	AM91L11BDM	AMD	RAM	27-37
39	82S290	N82S290F	VALG	ROM	60-59	149	91L11	AM91L11BFM	AMD	RAM	27-38
40	82S290	N82S290N	MULB	ROM	60-60	150	91L11	AM91L11BPC	AMD	RAM	27-39
41	82S290	N82S290N	PHIN	ROM	60-60	151	91L11	AM91L11CDC	AMD	RAM	27-17
42	82S290	N82S290N	SIC	ROM	60-60	152	91L11	AM91L11CDM	AMD	RAM	27-18
43	82S290	N82S290N	VALG	ROM	60-60	153	91L11	AM91L11CPC	AMD	RAM	27-19
44	82S291	RC82S291F	MULB	ROM	60-8	154	91L12	AM91L12ADC	AMD	RAM	27-71
45	82S291	RC82S291N	MULB	ROM	60-6	155	91L12	AM91L12ADM	AMD	RAM	27-72
46	82S291	S82S291F	PHIN	ROM	60-68	156	91L12	AM91L12AFM	AMD	RAM	27-73
47	82S291	S82S291F	VALG	ROM	60-68	157	91L12	AM91L12APC	AMD	RAM	27-74
48	82S291	N82S291F	MULB	ROM	60-61	158	91L12	AM91L12BDC	AMD	RAM	27-40
49	82S291	N82S291F	PHIN	ROM	60-61	159	91L12	AM91L12BDM	AMD	RAM	27-41
50	82S291	N82S291F	SIC	ROM	60-61	160	91L12	AM91L12BFM	AMD	RAM	27-42
51	82S291	N82S291F	VALG	ROM	60-61	161	91L12	AM91L12BPC	AMD	RAM	27-43
52	82S291	N82S291N	MULB	ROM	60-62	162	91L12	AM91L12CDC	AMD	RAM	27-20
53	82S291	N82S291N	PHIN	ROM	60-62	163	91L12	AM91L12CDM	AMD	RAM	27-21
54	82S291	N82S291N	SIC	ROM	60-62	164	91L12	AM91L12CPC	AMD	RAM	27-22
55	82S291	N82S291N	VALG	ROM	60-62	165	91L14	AM91L14BDC	AMD	RAM	35-86
56	82S400	N82S400A	MULB	RAM	38-103	166	91L14	AM91L14BDM	AMD	RAM	35-87
57	82S400	N82S400AI	PHIN	RAM	38-103	167	91L14	AM91L14BPC	AMD	RAM	35-88
58	82S400	N82S400AI	VALG	RAM	38-103	168	91L14	AM91L14CDC	AMD	RAM	35-89
59	82S400	N82S400I	MULB	RAM	38-104	169	91L14	AM91L14CDM	AMD	RAM	35-67
60	82S400	N82S400I	PHIN	RAM	38-104	170	91L14	AM91L14CPC	AMD	RAM	35-68
61	82S400	N82S400I	VALG	RAM	38-104	171	91L24	AM91L24BDC	AMD	RAM	35-69
62	82S401	N82S401AI	MULB	RAM	38-105	172	91L24	AM91L24BDM	AMD	RAM	35-94
63	82S401	N82S401AI	PHIN	RAM	38-105	173	91L24	AM91L24BPC	AMD	RAM	35-95
64	82S401	N82S401AI	VALG	RAM	38-105	174	91L24	AM91L24CDC	AMD	RAM	35-96
65	82S401	N82S401I	MULB	RAM	38-106	175	91L24	AM91L24CDM	AMD	RAM	35-70
66	82S401	N82S401I	PHIN	RAM	38-106	176	91L24	AM91L24CPC	AMD	RAM	35-71
67	82S401	N82S401I	VALG	RAM	38-106	177	91L30	AM91L24DC	AMD	RAM	35-72
68	82S2708	RC82S2708F	MULB	ROM	58-30	178	91L30	AM91L30ADC	AMD	RAM	38-43
69	82S2708	RC82S2708N	MULB	ROM	58-31	179	91L30	AM91L30ADM	AMD	RAM	38-44
70	82S2708	S82S2708F	PHIN	ROM	58-35	180	91L30	AM91L30APC	AMD	RAM	38-45
71	82S2708	S82S2708F	SIC	ROM	58-35	181	91L30	AM91L30BDC	AMD	RAM	38-33
72	82S2708	S82S2708F	VALG	ROM	58-35	182	91L30	AM91L30BDM	AMD	RAM	38-34
73	82S2708	N82S2708F	MULB	ROM	58-22	183	91L30	AM91L30BPC	AMD	RAM	38-35
74	82S2708	N82S2708F	PHIN	ROM	58-22	184	91L30	AM91L30CDC	AMD	RAM	38-23
75	82S2708	N82S2708F	VALG	ROM	58-22	185	91L30	AM91L30CDM	AMD	RAM	38-24
76	82S2708	N82S2708N	MULB	ROM	58-23	186	91L30	AM91L30CPC	AMD	RAM	38-25
77	82S2708	N82S2708N	PHIN	ROM	58-23	187	91L30	AM91L30DDC	AMD	RAM	38-17
78	82S2708	N82S2708N	VALG	ROM	58-23	188	91L31	AM91L30DPC	AMD	RAM	38-18
79	83	SM83	TRW	RAM	19-3	189	91L31	AM91L31ADC	AMD	RAM	38-46
80	85S68	DM85S68D	NSC	RAM	20-78	190	91L31	AM91L31ADM	AMD	RAM	38-47
81	85S68	DM85S68N	NSC	RAM	20-79	191	91L31	AM91L31BDC	AMD	RAM	38-36
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83	86S64	DM86S64J	NSC	CHAR GEN	64-57	193	91L31	AM91L31CDC	AMD	RAM	38-26
84	86S64	DM86S64N	NSC	CHAR GEN	64-58	194	91L31	AM91L31CDM	AMD	RAM	38-27
85	86S128	DM86S128J	NSC	CHAR GEN	64-76	195	91L40	AM91L31DDC	AMD	RAM	38-19
86	86S128	DM86S128N	NSC	CHAR GEN	64-77	196	91L40	AM91L40ADC	AMD	RAM	41-29
87	87S180	DM87S180J	NSC	ROM	57-65	197	91L40	AM91L40ADM	AMD	RAM	41-30
88	87S180	DM87S180N	NSC	ROM	57-66	198	91L40	AM91L40APC	AMD	RAM	41-31
89	87S181	DM87S181J	NSC	ROM	57-67	199	91L40	AM91L40BDC	AMD	RAM	41-11
90	87S181	DM87S181N	NSC	ROM	57-68	200	91L40	AM91L40BDM	AMD	RAM	41-12
91	87S184	DM87S184J	NSC	ROM	59-68	201	91L40	AM91L40BPC	AMD	RAM	41-13
92	87S184	DM87S184N	NSC	ROM	59-69	202	91L40	AM91L40CDC	AMD	RAM	40-106
93	87S185	DM87S185J	NSC	ROM	59-70	203	91L40	AM91L40CDM	AMD	RAM	40-108
94	87S185	DM87S185N	NSC	ROM	59-71	204	91L40	AM91L40CPC	AMD	RAM	40-107
95	87S188	DM87S188J	NSC	ROM	44-64	205	91L40	AM91L40DDC	AMD	RAM	40-89
96	87S188	DM87S188N	NSC	ROM	44-65	206	91L41	AM91L40DPC	AMD	RAM	40-90
97	87S190	DM87S190J	NSC	ROM	61-77	207	92L44	AM91L41DDC	AMD	RAM	39-26
98	87S190	DM87S190N	NSC	ROM	61-78	208	92L44	AM92L44BDC	AMD	RAM	41-20
99	87S191	DM87S191J	NSC	ROM	61-79	209	92L44	AM92L44BDM	AMD	RAM	41-21
100	87S191	DM87S191N	NSC	ROM	61-80	210	92L44	AM92L44BPC	AMD	RAM	41-22
101	87S288	DM87S288J	NSC	ROM	44-66	211	92L44	AM92L44CDC	AMD	RAM	40-108
102	87S288	DM87S288N	NSC	ROM	44-67	212	92L44	AM92L44CDM	AMD	RAM	40-109
103	90L44	AM90L44BDC	AMD	RAM	41-17	213	92L44	AM92L44CPC	AMD	RAM	40-110
104	90L44	AM90L44BDM	AMD	RAM	41-18	214	92L44	AM92L44DDC	AMD	RAM	40-91
105	90L44	AM90L44BPC	AMD	RAM	41-19	215	93H00	AM92L44DPC	AMD	RAM	41-1
106	90L44	AM90L44CPC	AMD	RAM	40-102	216	93H00	93H00DC	FSC	SHIFT REG	73-103
107	90L44	AM90L44CDM	AMD	RAM	40-103	217	93H00	93H00DM	FSC	SHIFT REG	73-104
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106	472	uPD472D	NECJ	ROM	55-27	216	1103	1103IK	SIC	RAM	28-13
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3	1106	GZF1106D	VALG	SHIFT REG	86-25	113	1600	CM1600-3P	STX	ROM	60-24
4	1106	GZF1106P	MULB	SHIFT REG	86-31	114	1600	CM1600C	STX	ROM	60-19
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15	1400	GZF1400P	SIC	RAM	24-41	125	1702	AM1702AL-1	AMD	ROM	48-84
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17	1402	DL9-1402A26#2	GIC	SHIFT REG	87-21	127	1711	ER1711	GIC	SPECIAL	90-35
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19	1402	DL9-1402A55#2	GIC	SHIFT REG	87-22	129	1821	CDP1821D	RCA	RAM	30-27
20	1402	1402A	AMD	SHIFT REG	87-25	130	1821	CDP1821SCD	RCA	RAM	30-28
21	1402	1402AB	PHIN	SHIFT REG	87-15	131	1821	CDP1821SD	RCA	RAM	30-29
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25	1402	AM1402A51E	AMD	SHIFT REG	87-31	135	1822	CDP1822D	RCA	RAM	25-84
26	1402	AM1402A51F	AMD	SHIFT REG	87-32	136	1822	CDP1822E	RCA	RAM	25-85
27	1402	AM1402A59F#1	AMD	SHIFT REG	87-33	137	1823	CDP1823CD	RCA	RAM	22-43
28	1402	AM1402A59F#2	AMD	SHIFT REG	87-17	138	1823	CDP1823CE	RCA	RAM	22-44
29	1402	AM1402A#1	AMD	SHIFT REG	87-26	139	1823	CDP1823D	RCA	RAM	22-45
30	1402	AM1402A#2	AMD	SHIFT REG	87-18	140	1823	CDP1823E	RCA	RAM	22-46
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34	1402	AM1402APC#2	AMD	SHIFT REG	87-20	144	1824	SCP1824L	SSS	RAM	21-66
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38	1403	DL9-1403A26#2	GIC	SHIFT REG	87-71	148	1824	CDP1824CE	RCA	RAM	21-64
39	1403	DL9-1403A55#1	GIC	SHIFT REG	87-82	149	1824	CDP1824D	RCA	RAM	21-70
40	1403	DL9-1403A55#2	GIC	SHIFT REG	87-72	150	1824	CDP1824E	RCA	RAM	21-65
41	1403	1403A	AMD	SHIFT REG	87-76	151	1825	CDP1825CD	RCA	RAM	33-10
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46	1403	AM1403A51F	AMD	SHIFT REG	87-84	156	1831	SCP1831C	SSS	ROM	51-67
47	1403	AM1403A51T	AMD	SHIFT REG	87-85	157	1831	SCP1831E	SSS	ROM	51-68
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51	1403	AM1403A#2	AMD	SHIFT REG	87-67	161	1831	CDP1831CD	RCA	ROM	51-59
52	1403	AM1403AHM#1	AMD	SHIFT REG	87-78	162	1831	CDP1831CE	RCA	ROM	51-60
53	1403	AM1403AHM#2	AMD	SHIFT REG	87-68	163	1831	CDP1831D	RCA	ROM	51-61
54	1403	AM1403APC#1	AMD	SHIFT REG	87-79	164	1831	CDP1831E	RCA	ROM	51-62
55	1403	AM1403APC#2	AMD	SHIFT REG	87-69	165	1832	SCP1832	SSS	ROM	51-56
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58	1404	DL9-1404A26#1	GIC	SHIFT REG	88-3	168	1832	SCP1832L	SSS	ROM	51-58
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62	1404	1404A	AMD	SHIFT REG	87-108	172	1832	CDP1832CE	RCA	ROM	51-64
63	1404	1404ATA	PHIN	SHIFT REG	87-93	173	1832	CDP1832D	RCA	ROM	51-65
64	1404	1404ATA	SIC	SHIFT REG	87-93	174	1832	CDP1832E	RCA	ROM	51-66
65	1404	1404AV	PHIN	SHIFT REG	87-94	175	1833	SCP1833	SSS	RAM	36-66
66	1404	1404AV	SIC	SHIFT REG	87-94	176	1833	SCP1833C	SSS	RAM	36-66
67	1404	AM1404A51F	AMD	SHIFT REG	88-5	177	1833	SCP1833E	SSS	RAM	36-67
68	1404	AM1404A51T	AMD	SHIFT REG	88-6	178	1833	SCP1833L	SSS	RAM	36-67
69	1404	AM1404A59F#1	AMD	SHIFT REG	88-7	179	1833	SCP1833LC	SSS	RAM	36-67
70	1404	AM1404A59F#2	AMD	SHIFT REG	87-95	180	1833	SCP1833LE	SSS	RAM	36-67
71	1404	AM1404A#1	AMD	SHIFT REG	87-109	181	1833	CDP1833CD	RCA	ROM	56-38
72	1404	AM1404A#2	AMD	SHIFT REG	87-96	182	1833	CDP1833CE	RCA	ROM	56-39
73	1404	AM1404AHM#1	AMD	SHIFT REG	87-110	183	1833	CDP1833D	RCA	ROM	56-40
74	1404	AM1404AHM#2	AMD	SHIFT REG	87-97	184	1833	CDP1833E	RCA	ROM	56-41
75	1404	AM1404APC#1	AMD	SHIFT REG	88-1	185	1834	SCP1834	SSS	ROM	56-36
76	1404	AM1404APC#2	AMD	SHIFT REG	87-98	186	1834	SCP1834C	SSS	ROM	56-48
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100	1506	M1506	AMD	SHIFT REG	86-63	210	2005	S2005K	PHIN	SHIFT REG	86-66
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87	2102	MM2102AJ-6	NSC	RAM	32- 67	197	2104	P2104A-3	ITL	RAM	38- 28
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92	2102	MM2102AN-2	NSC	RAM	31- 36	202	2104	D2104A-3	ITL	RAM	38- 8
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95	2102	MM2102AN-6	NSC	RAM	32- 69	205	2106	HM2106	HITJ	RAM	22- 84
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4	2111	P2111A	ITL	RAM	26-50	114	2114	MM2114J-3	NSC RAM	34-45	
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6	2111	P2111A-4	ITL	RAM	26-70	116	2114	MM2114J-L	NSC RAM	35-8	
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8	2111	SYC2111A	SYK	RAM	26-98	118	2114	MM2114N-2	NSC RAM	33-77	
9	2111	SYC2111A-2	SYK	RAM	26-92	119	2114	MM2114N-2L	NSC RAM	33-78	
10	2111	SYC2111A-4	SYK	RAM	26-104	120	2114	MM2114N-3	NSC RAM	34-47	
11	2111	SYP2111-1	SYK	RAM	27-4	121	2114	MM2114N-3L	NSC RAM	34-48	
12	2111	SYP2111A	SYK	RAM	26-101	122	2114	MM2114N-L	NSC RAM	35-10	
13	2111	SYP2111A-2	SYK	RAM	26-95	123	2114	SYC2114	SYK RAM	35-46	
14	2111	SYP2111A-4	SYK	RAM	26-107	124	2114	SYC2114-2	SYK RAM	35-34	
15	2111	2111-1I	PHIN	RAM	26-72	125	2114	SYC2114-3	SYK RAM	35-40	
16	2111	2111-1I	VALG	RAM	26-72	126	2114	SYC2114L	SYK RAM	35-47	
17	2111	2111-1N	SIC	RAM	26-73	127	2114	SYC2114L-2	SYK RAM	35-35	
18	2111	2111A-2F	PHIN	RAM	26-18	128	2114	SYC2114L-3	SYK RAM	35-41	
19	2111	2111A-2N	PHIN	RAM	26-19	129	2114	SYC2114LV	SYK RAM	35-48	
20	2111	2111A-4F	PHIN	RAM	26-55	130	2114	SYC2114LV-2	SYK RAM	35-36	
21	2111	2111A-4N	PHIN	RAM	26-56	131	2114	SYC2114LV-3	SYK RAM	35-42	
22	2111	2111AF	PHIN	RAM	26-37	132	2114	SYMC2114	SYK RAM	35-22	
23	2111	2111AN	PHIN	RAM	26-38	133	2114	SYMC2114-3	SYK RAM	34-62	
24	2111	uPD2111ALC	NECJ	RAM	27-60	134	2114	SYP2114	SYK RAM	35-49	
25	2111	uPD2111ALC-2	NECJ	RAM	27-61	135	2114	SYP2114-2	SYK RAM	35-37	
26	2111	uPD2111ALC-4	NECJ	RAM	27-62	136	2114	SYP2114-3	SYK RAM	35-43	
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28	2111	C2111-1	AMD	RAM	26-75	138	2114	SYP2114L-2	SYK RAM	35-38	
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34	2111	D2111A-2	ITL	RAM	26-26	144	2114	MFS2114-30	MTY RAM	34-49	
35	2111	D2111A-4	ITL	RAM	26-63	145	2114	MFS2114-35	MTY RAM	34-80	
36	2112	P2112	AMD	RAM	26-90	146	2114	MFS2114-45	MTY RAM	35-12	
37	2112	P2112-2	AMD	RAM	26-83	147	2114	MFS2114-50	MTY RAM	35-33	
38	2112	P2112A	ITL	RAM	26-51	148	2114	MPS2114L-30	MTY RAM	34-50	
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40	2112	P2112A-4	ITL	RAM	26-71	150	2114	MPS2114L-45	MTY RAM	35-13	
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42	2112	SYC2112A	SYK	RAM	26-99	152	2114	MPT2114L-45	MTY RAM	35-15	
43	2112	SYC2112A-2	SYK	RAM	26-93	153	2114	MSM2114	OKIJ RAM	35-16	
44	2112	SYC2112A-4	SYK	RAM	26-105	154	2114	MSM2114-2RS	OKIJ RAM	33-79	
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48	2112	SYP2112-1	SYK	RAM	27-5	158	2114	TMS2114-15NL	TII RAM	33-39	
49	2112	SYP2112A	SYK	RAM	26-102	159	2114	TMS2114-20NL	TII RAM	33-93	
50	2112	SYP2112A-2	SYK	RAM	26-96	160	2114	TMS2114-25NL	TII RAM	34-3	
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52	2112	2112A-2F	PHIN	RAM	26-20	162	2114	TMS2114L-15NL	TII RAM	33-40	
53	2112	2112A-2N	PHIN	RAM	26-21	163	2114	TMS2114L-20NL	TII RAM	33-94	
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55	2112	2112A-4N	PHIN	RAM	26-58	165	2114	TMS2114L-45NL	TII RAM	35-30	
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57	2112	2112AN	PHIN	RAM	26-40	167	2114	IM2114-2CPN	INL RAM	35-58	
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60	2112	C2112A	ITL	RAM	26-43	170	2114	IM2114-L2MJN	INL RAM	35-60	
61	2112	C2112A-2	ITL	RAM	26-24	171	2114	IM2114-L3CJN	INL RAM	35-80	
62	2112	C2112A-4	ITL	RAM	26-61	172	2114	IM2114-L3MJN	INL RAM	35-81	
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64	2112	D2112A-2	ITL	RAM	26-27	174	2114	IM2114-LMJN	INL RAM	35-103	
65	2112	D2112A-4	ITL	RAM	26-64	175	2114	IM2114CJN	INL RAM	35-104	
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68	2114	MCM2114P30	MOTA	RAM	34-42	178	2114	IM2114L2MJN/883B	INL RAM	35-62	
69	2114	N2114-UME	EMM	RAM	34-56	179	2114	IM2114L3CPN	INL RAM	35-82	
70	2114	MCM2114P45	MOTA	RAM	34-110	180	2114	IM2114L3MJN/883B	INL RAM	35-83	
71	2114	MCM2114P	MOTA	RAM	35-1	181	2114	IM2114LCPN	INL RAM	35-106	
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73	2114	EA2114L-20PC	EAI	RAM	33-55	183	2114	2114-2CA	EMM RAM	33-47	
74	2114	EA2114L-25PC	EAI	RAM	33-103	184	2114	2114-2CB	EMM RAM	33-48	
75	2114	EA2114L-30PC	EAI	RAM	34-20	185	2114	2114-2CE	EMM RAM	33-49	
76	2114	EA2114LPC	EAI	RAM	34-92	186	2114	2114-3CA	EMM RAM	34-11	
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78	2114	F2114-2PC	FSC	RAM	33-57	188	2114	2114-3CE	EMM RAM	34-13	
79	2114	F2114-3DC	FSC	RAM	34-21	189	2114	2114-UCA	EMM RAM	35-90	
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83	2114	F2114L2PC	FSC	RAM	33-59	193	2114	2114AL-2	ITL RAM	36-9	
84	2114	F2114L3DC	FSC	RAM	34-23	194	2114	2114AL-3	ITL RAM	36-10	
85	2114	F2114L3PC	FSC	RAM	34-24	195	2114	2114AL-4	ITL RAM	36-12	
86	2114	F2114LDC	FSC	RAM	34-94	196	2114	2114UCB	EMM RAM	35-91	
87	2114	F2114LPC	FSC	RAM	34-95	197	2114	2114UCE	EMM RAM	35-92	
88	2114	F2114PC	FSC	RAM	34-96	198	2114	2114UMA	EMM RAM	35-93	
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90	2114	NMC2114AN	NSC	RAM	33-28	200	2114	uPD2114LC	NECJ RAM	35-31	
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92	2114	NMC2114APN	NSC	RAM	33-30	202	2114	uPD2114LC-1	NECJ RAM	34-69	
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96	2114	MCS2114L-30	MTY	RAM	34-44	206	2114	uPD2114LC-3	NECJ RAM	33-95	
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99	2114	MCT2114-45	MTY	RAM	35-4	209	2114	uPD2114LD	NECJ RAM	35-32	
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104	2114	MD2114L	INL	RAM	32-93	214	2114	uPD2114LD-2	NECJ RAM	34-6	
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3		2114		L2114-3CB	EMM	RAM	34-29	113		2142		SYP2142	SYK	RAM	35-23
4		2114		L2114-3CE	EMM	RAM	34-30	114		2142		SYP2142-2	SYK	RAM	33-88
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6		2114		L2114UCB	EMM	RAM	36-2	116		2142		SYP2142L	SYK	RAM	35-24
7		2114		L2114UCE	EMM	RAM	36-3	117		2142		SYP2142L-2	SYK	RAM	33-89
8		2114		L2114UMA	EMM	RAM	36-4	118		2142		SYP2142L-3	SYK	RAM	34-64
9		2114		V2114-UCB	EMM	RAM	34-71	119		2142		SYP2142LV	SYK	RAM	35-25
10		2114		V2114-UCE	EMM	RAM	34-72	120		2142		SYP2142LV-2	SYK	RAM	33-90
11		2114		M2114-3MA	EMM	RAM	34-33	121		2142		SYP2142LV-3	SYK	RAM	34-65
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13		2114		M2114-UMA	EMM	RAM	36-5	123		2142		2142-2	ITL	RAM	33-50
14		2114		D2114	INL	RAM	34-90	124		2142		2142-3	ITL	RAM	34-14
15		2114		D2114	ITL	RAM	34-90	125		2142		2142L3	ITL	RAM	34-15
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17		2114		D2114-2	ITL	RAM	33-53	127		2142		C2142	ITL	RAM	34-88
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19		2114		D2114-3	ITL	RAM	34-18	129		2142		C2142-3	ITL	RAM	34-16
20		2114		D2114L2	INL	RAM	33-54	130		2142		C2142L	ITL	RAM	34-89
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51		4104		MK4104N-33	MOS	RAM	39- 87	161		4118		MK4118N-1	MOS	RAM	36- 70
52		4104		MK4104N-34	MOS	RAM	39-110	162		4118		MK4118N-2	MOS	RAM	36- 72
53		4104		MK4104N-35	MOS	RAM	40- 19	163		4118		MK4118N-3	MOS	RAM	36- 74
54		4104		MK4104E-85	MOS	RAM	40- 20	164		4118		MK4118N-4	MOS	RAM	36- 76
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56		4104		MKB4104J-85	MOS	RAM	40- 21	166		4128		SL94128-28#2	GIC	SHIFT REG	86-102
57		4104		MKB4104J-86	MOS	RAM	40- 30	167		4128		SL94128-69#1	GIC	SHIFT REG	86-101
58		4104		MKB4104P-85	MOS	RAM	40- 22	168		4128		SL94128-69#2	GIC	SHIFT REG	86-103
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39	4505	HEF4505BP	RTCF	RAM	21-93	149	4736	4736BFM	FSC	RAM	30-80
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3	5531	L5531J	MMI	RAM	23-88	113	6114	ZIL	RAM	34-83	
4	5531	L5531N	MMI	RAM	23-89	114	6116	HITJ	RAM	37-4	
5	5531	5531	MMI	RAM	23-68	115	6116	HITJ	RAM	37-6	
6	5531	5531F	MMI	RAM	23-69	116	6116	HITJ	RAM	37-10	
7	5531	5531J	MMI	RAM	23-70	117	6116	HITJ	RAM	37-5	
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9	5533	SCM5533H	SSS	SPECIAL	89-7	119	6116	HITJ	RAM	37-11	
10	5555	SCM5555C	SSS	RAM	21-98	120	6132	ZIL	RAM	41-63	
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16	5560	L5560J	MMI	RAM	21-18	126	6142	ZIL	RAM	33-45	
17	5560	5560F	MMI	RAM	21-7	127	6142	ZIL	RAM	33-46	
18	5560	5560J	MMI	RAM	21-8	128	6142	ZIL	RAM	33-99	
19	5560	5560N	MMI	RAM	20-96	129	6142	ZIL	RAM	33-100	
20	5561	L5561F	MMI	RAM	21-17	130	6142	ZIL	RAM	34-9	
21	5561	L5561J	MMI	RAM	21-18	131	6142	ZIL	RAM	34-10	
22	5561	5561F	MMI	RAM	21-9	132	6142	ZIL	RAM	34-74	
23	5561	5561J	MMI	RAM	21-10	133	6142	ZIL	RAM	34-75	
24	5589	SCM5589C	SSS	RAM	21-35	134	6142	ZIL	RAM	34-84	
25	5589	SCM5589E	SSS	RAM	21-36	135	6142	ZIL	RAM	34-85	
26	5589	SCM5589H	SSS	RAM	21-37	136	6147	HITJ	RAM	39-28	
27	5600	IM5600CDE	INL	ROM	45-1	137	6147	HITJ	RAM	39-38	
28	5600	IM5600CFE	INL	ROM	45-2	138	6147	HITJ	RAM	39-29	
29	5600	IM5600CJE	INL	ROM	45-3	139	6147	HITJ	RAM	39-39	
30	5600	IM5600CPE	INL	ROM	45-4	140	6148	HITJ	RAM	33-16	
31	5600	IM5600MDE	INL	ROM	45-5	141	6148	HITJ	RAM	33-17	
32	5600	IM5600MFE	INL	ROM	45-6	142	6148	HITJ	RAM	32-95	
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34	5603	IM5603ACDE	INL	ROM	47-37	144	6155	MMI	CHAR GEN	64-52	
35	5603	IM5603ACFE	INL	ROM	47-38	145	6156	MMI	CHAR GEN	64-17	
36	5603	IM5603ACPE	INL	ROM	47-39	146	6161	MMI	CHAR GEN	64-71	
37	5603	IM5603AMDE	INL	ROM	47-52	147	6162	MMI	CHAR GEN	64-35	
38	5603	IM5603AMFE	INL	ROM	47-53	148	6171	MMI	CHAR GEN	64-64	
39	5603	IM5603AMJE	INL	ROM	47-40	149	6172	MMI	CHAR GEN	64-81	
40	5604	IM5604CDE	INL	ROM	49-75	150	6173	MMI	CHAR GEN	64-40	
41	5604	IM5604CJE	INL	ROM	50-70	151	6174	MMI	CHAR GEN	64-28	
42	5604	IM5604MDE	INL	ROM	49-76	152	6200	MMI	ROM	45-89	
43	5604	IM5604MFE	INL	ROM	49-77	153	6200	MMI	ROM	45-90	
44	5604	IM5604MJE	INL	ROM	50-71	154	6200	MMI	ROM	45-91	
45	5608	IM5608-1ID	INL	RAM	29-82	155	6201	MMI	ROM	45-92	
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47	5608	IM5608-1MD	INL	RAM	29-84	157	6201	MMI	ROM	45-94	
48	5608	IM5608-1MF	INL	RAM	29-85	158	6205	MMI	ROM	49-30	
49	5608	IM5608-1MJ	INL	RAM	29-86	159	6205	MMI	ROM	49-31	
50	5608	IM5608A-1ID	INL	RAM	29-42	160	6205	MMI	ROM	49-32	
51	5608	IM5608A-1IJ	INL	RAM	29-43	161	6206	MMI	ROM	49-33	
52	5608	IM5608A-1MD	INL	RAM	29-44	162	6206	MMI	ROM	49-34	
53	5608	IM5608A-1MF	INL	RAM	29-45	163	6206	MMI	ROM	49-35	
54	5608	IM5608A-1MS	INL	RAM	29-46	164	6208	MMI	ROM	47-70	
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56	5608	IM5608AIJ	INL	RAM	29-53	166	6209	MMI	ROM	47-72	
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58	5608	IM5608AMF	INL	RAM	29-55	168	6210	MMI	ROM	47-60	
59	5608	IM5608AMJ	INL	RAM	29-56	169	6210	MMI	ROM	47-61	
60	5608	IM5608CJ	INL	RAM	30-21	170	6210	MMI	ROM	47-62	
61	5608	IM5608CP	INL	RAM	30-22	171	6225	MMI	ROM	50-83	
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63	5608	IM5608IJ	INL	RAM	30-4	173	6230	MMI	ROM	44-19	
64	5608	IM5608IP	INL	RAM	30-5	174	6230	MMI	ROM	44-20	
65	5608	IM5608MD	INL	RAM	30-6	175	6230	MMI	ROM	44-21	
66	5608	IM5608MF	INL	RAM	30-7	176	6231	MMI	ROM	44-22	
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68	5610	IM5610CDE	INL	ROM	45-8	178	6231	MMI	ROM	44-24	
69	5610	IM5610CFE	INL	ROM	45-9	179	6235	MMI	ROM	47-81	
70	5610	IM5610CJE	INL	ROM	45-10	180	6235	MMI	ROM	47-82	
71	5610	IM5610CPE	INL	ROM	45-11	181	6235	MMI	ROM	47-83	
72	5610	IM5610MDE	INL	ROM	45-12	182	6236	MMI	ROM	47-84	
73	5610	IM5610MFE	INL	ROM	45-13	183	6236	MMI	ROM	47-85	
74	5610	IM5610MJE	INL	ROM	45-14	184	6236	MMI	ROM	47-86	
75	5623	IM5623ACDE	INL	ROM	47-41	185	6240	MMI	ROM	51-38	
76	5623	IM5623ACFE	INL	ROM	47-42	186	6240	MMI	ROM	51-39	
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78	5623	IM5623ACPE	INL	ROM	47-44	188	6241	MMI	ROM	51-41	
79	5623	IM5623AMDE	INL	ROM	47-45	189	6241	MMI	ROM	51-27	
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81	5623	IM5623AMJE	INL	ROM	47-47	191	6242	MMI	ROM	49-48	
82	5623	IM5623CDE	INL	ROM	47-49	192	6243	MMI	ROM	49-49	
83	5623	IM5623MDE	INL	ROM	47-54	193	6248	MMI	ROM	51-17	
84	5623	IM5623MFE	INL	ROM	47-55	194	6248	MMI	ROM	51-18	
85	5624	IM5624CDE	INL	ROM	49-78	195	6249	MMI	ROM	51-19	
86	5624	IM5624CJE	INL	ROM	50-72	196	6249	MMI	ROM	51-20	
87	5624	IM5624MDE	INL	ROM	49-79	197	6250	MMI	ROM	53-77	
88	5624	IM5624MFE	INL	ROM	49-80	198	6250	MMI	ROM	53-78	
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95	6072	6072N	MMI	CHAR GEN	64-80	205	6252	MMI	ROM	53-85	
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105	6114	Z6114-2CS	ZIL	RAM	33-43	215	6260	MMI	ROM	58-88	
106	6114	Z6114-2PS	ZIL	RAM	33-44	216	6260	MMI	ROM	58-89	
107	6114	Z6114-3CS	ZIL	RAM	33-97	217	6260	MMI	ROM	58-90	
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11	6280	6280-2N	MMI	ROM	55-56	121	6381	6381-1N	MMI	ROM	57-85
12	6280	6280-1F	MMI	ROM	55-92	122	6384	6384-1F	MMI	ROM	57-86
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31	6286	6286-1J	MMI	ROM	56-2	141	6504	IM6504MFN	INL	RAM	39-12
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35	6287	6287-1J	MMI	ROM	56-4	145	6508	MCM6508C-30	MOTA	RAM	29-35
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39	6289	6289-1J	MMI	ROM	56-6	149	6508	MCM6508P-46	MOTA	RAM	29-40
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48	6300	6300-1J	MMI	ROM	46-91	158	6508	IM6508IDE	INL	RAM	29-75
49	6300	6300-1N	MMI	ROM	46-92	159	6508	S6508	AMI	RAM	30-9
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59	6308	6308-1J	MMI	ROM	48-56	169	6512	IM6512IDN	INL	RAM	22-22
60	6308	6308-1N	MMI	ROM	48-57	170	6512	IM6512IJN	INL	RAM	22-17
61	6309	6309-1J	MMI	ROM	48-58	171	6512	IM6512MDN	INL	RAM	22-18
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67	6312	IM6312AMDN	INL	ROM	59-8	177	6514	NMC6514N-5	NSC	RAM	32-106
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58	7489	7489PC	FSC	RAM	21- 28	168	7841	HM3-7841AR5	HAS	ROM	52- 36
59	7491	N7491A	PHIN	SHIFT REG	83- 80	169	7841	HM9-7841AR2	HAS	ROM	52- 92
60	7491	N7491A	PHIN	SHIFT REG	83- 80	170	7841	HM9-7841AR5	HAS	ROM	52- 37
61	7491	N7491A	SIC	SHIFT REG	83- 80	171	7842	MCM7842D	MOTAR	ROM	54- 82
62	7491	N7491AF	SIC	SHIFT REG	83- 81	172	7842	MCM7842DC	MOTAR	ROM	54- 83
63	7491	N7491AF	SIC	SHIFT REG	83- 81	173	7842	MCM7842DM	MOTAR	ROM	55- 3
64	7491	N7491AF	VALG	SHIFT REG	83- 81	174	7842	MCM7842L	MOTAR	ROM	54- 30
65	7491	N7491AN	PHIN	SHIFT REG	83- 82	175	7842	MCM7842P	MOTAR	ROM	54- 31
66	7491	N7491AN	SIC	SHIFT REG	83- 82	176	7843	MCM7843D	MOTAR	ROM	54- 84
67	7491	N7491AN	VALG	SHIFT REG	83- 82	177	7843	MCM7843DC	MOTAR	ROM	54- 85
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69	7491	N7491F	PHIN	SHIFT REG	83- 83	179	7843	MCM7843L	MOTAR	ROM	54- 32
70	7491	N7491F	SIC	SHIFT REG	83- 83	180	7843	MCM7843P	MOTAR	ROM	54- 33
71	7491	7491ADC	FSC	SHIFT REG	83- 74	181	7660	MCM7860L	MOTAR	ROM	57- 20
72	7491	7491AFC	FSC	SHIFT REG	83- 75	182	7660	MCM7860P	MOTAR	ROM	57- 21
73	7491	7491APC	FSC	SHIFT REG	83- 76	183	7661	MCM7861L	MOTAR	ROM	57- 22
74	7491	7491PC	TUNH	SHIFT REG	83- 55	184	7680	MCM7860CDC	MOTAR	ROM	55- 38
75	7491	SN7491AJ	TII	SHIFT REG	83- 95	185	7680	MCM7860CDM	MOTAR	ROM	55- 39
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79	7491	ZN7491AJ	FERB	SHIFT REG	83- 100	189	7680	MCM7860DML	MOTAR	ROM	55- 90
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81	7494	N7494B	PHIN	SHIFT REG	74- 89	191	7680	MCM7860LDM	MOTAR	ROM	58- 24
82	7494	N7494B	SIC	SHIFT REG	74- 89	192	7680	HM1-7860RP5	HAS	ROM	57- 57
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86	7494	N7494F	VALG	SHIFT REG	74- 90	196	7681	MCM7861CDM	MOTAR	ROM	55- 41
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93	7494	7494PC	TUNH	SHIFT REG	75- 13	203	7681	HM1-7861RP5	HAS	ROM	57- 58
94	7494	SN7494J	TII	SHIFT REG	74- 96	204	7681	HM3-7861RP5	HAS	ROM	57- 59
95	7494	SN7494N	TII	SHIFT REG	74- 97	205	7681	HM3-7861RP5	HAS	ROM	57- 60
96	7494	ZN7494E	FERB	SHIFT REG	74- 100	206	7684	MCM7684DC	MOTAR	ROM	61- 73
97	7494	ZN7494J	FERB	SHIFT REG	74- 101	207	7684	MCM7684DM	MOTAR	ROM	61- 85
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7		8118		8118-3CJ	EMM	RAM	36-92	117		8205		N8205YCB175#1	MULB	CODE CONV	66-10
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9		8118		8118-5CJ	EMM	RAM	36-94	119		8205		N8205YCB175#1	SIC	CODE CONV	66-10
10		8118		8118-5MD	EMM	RAM	36-86	120		8205		N8205YCB175#2	MULB	CODE CONV	66-48
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14		8132		MB8132EL	FMI	RAM	43-38	124		8211		SS6-8211-55	GIC	SHIFT REG	85-5
15		8155		ID8155	ITL	RAM	27-99	125		8212		SS5-8212-12	GIC	SHIFT REG	85-3
16		8156		ID8156	ITL	RAM	27-100	126		8212		SS5-8212-16	GIC	SHIFT REG	85-4
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18		8185		ID8185	ITL	RAM	36-68	128		8212		SS6-8212-69	GIC	SHIFT REG	85-7
19		8192		RO1-8192	GIC	ROM	59-25	129		8212		SS7-8212-30	GIC	SHIFT REG	85-9
20		8192		RO5-8192	GIC	ROM	59-26	130		8216		MB8216E	FMI	RAM	41-105
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31		8200		N8200Q	SIC	SHIFT REG	76-59	141		8224		N8224B	PHIN	ROM	44-33
32		8200		RC8200N	MULB	SHIFT REG	76-63	142		8224		N8224CB180	MULB	CODE CONV	66-8
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34		8200		S8200F	PHIN	SHIFT REG	76-68	144		8224		N8224F	MULB	ROM	44-34
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38		8200		S8200N	SIC	SHIFT REG	76-69	148		8224		RC8224B	MULB	ROM	44-36
39		8200		S8200Q	PHIN	SHIFT REG	76-70	149		8224		RC8224F	MULB	ROM	44-37
40		8200		S8200Q	SIC	SHIFT REG	76-70	150		8224		RC8224W	MULB	ROM	44-38
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45		8201		N8201F	VALG	SHIFT REG	76-60	155		8225		N8225B	PHIN	RAM	21-21
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49		8201		N8201N	VALG	SHIFT REG	76-61	159		8225		N8225W	PHIN	RAM	21-23
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57		8201		S8201F	SIC	SHIFT REG	76-71	167		8270		N8270A	SIC	SHIFT REG	69-3
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59		8201		S8201N	PHIN	SHIFT REG	76-72	169		8270		N8270F	PHIN	SHIFT REG	69-4
60		8201		S8201N	SIC	SHIFT REG	76-72	170		8270		N8270F	SIC	SHIFT REG	69-4
61		8201		S8201Q	PHIN	SHIFT REG	76-73	171		8270		N8270F	VALG	SHIFT REG	69-4
62		8201		S8201Q	SIC	SHIFT REG	76-73	172		8270		N8270N	PHIN	SHIFT REG	69-5
63		8201		S8201Q	VALG	SHIFT REG	76-73	173		8270		N8270N	SIC	SHIFT REG	69-5
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67		8202		N8202F	VALG	SHIFT REG	84-42	177		8270		N8270W	SIC	SHIFT REG	69-6
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70		8202		N8202N	SIC	SHIFT REG	84-43	180		8270		RC8270W	MULB	SHIFT REG	69-19
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27	8274	N8274N	SIC	SHIFT REG	84-62	137	9050	AM9050EDC	AMD	RAM	37-80
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29	8274	N8274W	MULB	SHIFT REG	84-63	139	9060	AM9060CDC	AMD	RAM	38-36
30	8274	N8274W	PHIN	SHIFT REG	84-63	140	9060	AM9060CPC	AMD	RAM	38-37
31	8274	N8274W	SIC	SHIFT REG	84-63	141	9060	AM9060DDC	AMD	RAM	38-6
32	8274	RC8274B	MULB	SHIFT REG	84-76	142	9060	AM9060DPC	AMD	RAM	38-7
33	8274	RC8274F	MULB	SHIFT REG	84-77	143	9060	AM9060EDC	AMD	RAM	37-82
34	8274	RC8274W	MULB	SHIFT REG	84-78	144	9060	AM9060EPC	AMD	RAM	37-83
35	8274	S8274B	PHIN	SHIFT REG	84-67	145	9101	AM9101	AMD	RAM	26-13
36	8274	S8274B	SIC	SHIFT REG	84-67	146	9101	AM9101ADC	AMD	RAM	27-75
37	8274	S8274F	PHIN	SHIFT REG	84-68	147	9101	AM9101ADM	AMD	RAM	27-76
38	8274	S8274F	SIC	SHIFT REG	84-68	148	9101	AM9101AFM	AMD	RAM	27-77
39	8274	S8274F	VALG	SHIFT REG	84-68	149	9101	AM9101APC	AMD	RAM	27-78
40	8274	S8274W	PHIN	SHIFT REG	84-69	150	9101	AM9101BDC	AMD	RAM	27-44
41	8274	S8274W	SIC	SHIFT REG	84-69	151	9101	AM9101BDM	AMD	RAM	27-45
42	8274	S8274W	VALG	SHIFT REG	84-69	152	9101	AM9101BFM	AMD	RAM	27-46
43	8275	N8275B	MULB	SHIFT REG	67-41	153	9101	AM9101BPC	AMD	RAM	27-47
44	8275	N8275B	PHIN	SHIFT REG	67-41	154	9101	AM9101CDC	AMD	RAM	27-23
45	8275	N8275B	SIC	SHIFT REG	67-41	155	9101	AM9101CDM	AMD	RAM	27-24
46	8275	N8275E	MULB	SHIFT REG	67-42	156	9101	AM9101CPC	AMD	RAM	27-25
47	8275	N8275E	PHIN	SHIFT REG	67-42	157	9101	AM9101DDC	AMD	RAM	27-8
48	8275	N8275E	SIC	SHIFT REG	67-42	158	9101	AM9101DPC	AMD	RAM	27-9
49	8275	N8275R	MULB	SHIFT REG	67-43	159	9101	AM9101EDC	AMD	RAM	26-7
50	8275	N8275R	PHIN	SHIFT REG	67-43	160	9101	AM9101EPC	AMD	RAM	26-8
51	8275	N8275R	SIC	SHIFT REG	67-43	161	9102	AM9102ADC	AMD	RAM	32-27
52	8275	RC8275B	MULB	SHIFT REG	78-35	162	9102	AM9102ADM	AMD	RAM	32-28
53	8275	RC8275E	MULB	SHIFT REG	78-36	163	9102	AM9102AFM	AMD	RAM	32-29
54	8275	RC8275R	MULB	SHIFT REG	78-37	164	9102	AM9102APC	AMD	RAM	32-30
55	8275	S8275B	PHIN	SHIFT REG	67-44	165	9102	AM9102BDC	AMD	RAM	31-88
56	8275	S8275B	SIC	SHIFT REG	67-44	166	9102	AM9102BDM	AMD	RAM	31-89
57	8275	S8275E	PHIN	SHIFT REG	67-45	167	9102	AM9102BFM	AMD	RAM	31-90
58	8275	S8275E	SIC	SHIFT REG	67-45	168	9102	AM9102BPC	AMD	RAM	31-91
59	8275	S8275R	PHIN	SHIFT REG	67-46	169	9102	AM9102CDC	AMD	RAM	31-42
60	8275	S8275R	SIC	SHIFT REG	67-46	170	9102	AM9102CDM	AMD	RAM	31-43
61	8276	N8276A	MULB	SHIFT REG	83-101	171	9102	AM9102CPC	AMD	RAM	31-44
62	8276	N8276A	PHIN	SHIFT REG	83-101	172	9102	AM9102DC	AMD	RAM	32-57
63	8276	N8276A	SIC	SHIFT REG	83-101	173	9102	AM9102DDC	AMD	RAM	31-23
64	8276	N8276F	MULB	SHIFT REG	83-102	174	9102	AM9102DM	AMD	RAM	32-58
65	8276	N8276F	PHIN	SHIFT REG	83-102	175	9102	AM9102DPC	AMD	RAM	31-24
66	8276	N8276F	SIC	SHIFT REG	83-102	176	9102	AM9102EDC	AMD	RAM	30-85
67	8277	N8277B	MULB	SHIFT REG	84-20	177	9102	AM9102EPC	AMD	RAM	30-86
68	8277	N8277B	PHIN	SHIFT REG	84-20	178	9102	AM9102FM	AMD	RAM	32-59
69	8277	N8277B	SIC	SHIFT REG	84-20	179	9102	AM9102FC	AMD	RAM	32-60
70	8277	N8277F	MULB	SHIFT REG	84-21	180	9111	AM9111	AMD	RAM	26-14
71	8277	N8277F	PHIN	SHIFT REG	84-21	181	9111	AM9111ADC	AMD	RAM	27-79
72	8277	N8277F	SIC	SHIFT REG	84-21	182	9111	AM9111ADM	AMD	RAM	27-80
73	8277	N8277F	VALG	SHIFT REG	84-21	183	9111	AM9111AFM	AMD	RAM	27-81
74	8277	N8277N	PHIN	SHIFT REG	84-22	184	9111	AM9111APC	AMD	RAM	27-82
75	8277	N8277N	SIC	SHIFT REG	84-22	185	9111	AM9111BDC	AMD	RAM	27-48
76	8277	N8277N	VALG	SHIFT REG	84-22	186	9111	AM9111BDM	AMD	RAM	27-49
77	8300	MC8300L	MOTA	SHIFT REG	71-63	187	9111	AM9111BFM	AMD	RAM	27-50
78	8300	MC8300P	MOTA	SHIFT REG	71-64	188	9111	AM9111BPC	AMD	RAM	27-51
79	8308	EA8308AC	EAI	ROM	56-58	189	9111	AM9111CDC	AMD	RAM	27-26
80	8308	EA8308AL	EAI	ROM	56-86	190	9111	AM9111CDM	AMD	RAM	27-27
81	8308	EA8308AP	EAI	ROM	56-59	191	9111	AM9111CPC	AMD	RAM	27-28
82	8316	EA8316ADC	EAI	ROM	61-7	192	9111	AM9111DDC	AMD	RAM	27-10
83	8316	EA8316ADM	EAI	ROM	61-8	193	9111	AM9111DPC	AMD	RAM	27-11
84	8316	EA8316EDC	EAI	ROM	60-106	194	9111	AM9111EDC	AMD	RAM	26-9
85	8316	EA8316EDL	EAI	ROM	61-2	195	9111	AM9111EPC	AMD	RAM	26-10
86	8316	RO3-8316A	GIC	ROM	60-104	196	9112	Am9112APC	AMD	RAM	26-6
87	8316	RO3-8316B	GIC	ROM	60-102	197	9112	AM9112	AMD	RAM	26-15
88	8316	C8316A	AMD	ROM	60-99	198	9112	AM9112ADC	AMD	RAM	27-83
89	8328	MC8328L	MOTA	SHIFT REG	84-2	199	9112	AM9112ADM	AMD	RAM	27-84
90	8328	MC8328P	MOTA	SHIFT REG	84-3	200	9112	AM9112AFM	AMD	RAM	27-85
91	8332	EA8332ADC	EAI	ROM	62-66	201	9112	AM9112APC	AMD	RAM	27-86
92	8332	EA8332APC	EAI	ROM	62-67	202	9112	AM9112BDC	AMD	RAM	27-52
93	8332	EA8332BDC	EAI	ROM	62-68	203	9112	AM9112BDM	AMD	RAM	27-53
94	8332	EA8332BPC	EAI	ROM	62-69	204	9112	AM9112BFM	AMD	RAM	27-54
95	8355	ID8355	ITL	ROM	60-18	205	9112	AM9112BPC	AMD	RAM	27-55
96	8520	MSL8520A	OKIJ	ROM	47-56	206	9112	AM9112CDC	AMD	RAM	27-29
97	8521	MSL8521A	OKIJ	ROM	47-57	207	9112	AM9112CDM	AMD	RAM	27-30
98	8655	KM8655	TAI	ROM	53-54	208	9112	AM9112CPC	AMD	RAM	27-31
99	8656	KM8656	TAI	ROM	58-87	209	9112	AM9112DDC	AMD	RAM	27-12
100	8657	KM8657	TAI	ROM	62-19	210	9112	AM9112DPC	AMD	RAM	27-13
101	8678	DM8678J	NSC	CHAR GEN	64-59	211	9112	AM9112EDC	AMD	RAM	26-11
102	8678	DM8678N	NSC	CHAR GEN	64-60	212	9112	AM9112EPC	AMD	RAM	26-12
103	8680	KM8680	TAI	RAM	37-40	213	9114	AM9114BDC	AMD	RAM	35-97
104	9010	9010-1200	DSI	RAM	41-61	214	9114	AM9114BDM	AMD	RAM	35-89
105	9010	9010-1210	DSI	RAM	36-54	215	9114	AM9114BPC	AMD	RAM	35-98
106	9010	9010-1230	DSI	RAM	41-62	216	9114	AM9114CDC	AMD	RAM	35-73
107	9010	9010-1231	DSI	RAM	36-53	217	9114	AM9114CDM	AMD	RAM	35-74
108	9010	9010-1250	DSI	RAM	36-55	218	9114	AM9114CPC	AMD	RAM	35-75
109	9010	9010-1322	DSI	ROM	62-12	219	9114	AM9114EDC	AMD	RAM	35-53
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1		9124		AM9124BDC	AMD	RAM	35-99	111		9316		RO3-9316C	GIC	ROM	60-101
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3		9124		AM9124BPC	AMD	RAM	35-101	113		9328		9328DM	FSC	SHIFT REG	84-29
4		9124		AM9124CDD	AMD	RAM	35-76	114		9328		9328FC	FSC	SHIFT REG	84-30
5		9124		AM9124CDM	AMD	RAM	35-77	115		9328		9328FM	FSC	SHIFT REG	84-31
6		9124		AM9124CPC	AMD	RAM	35-78	116		9328		9328PC	FSC	SHIFT REG	84-32
7		9124		AM9124EDC	AMD	RAM	35-55	117		9328		AM9328DC	AMD	SHIFT REG	84-33
8		9124		AM9124EPC	AMD	RAM	35-56	118		9328		AM9328DM	AMD	SHIFT REG	84-34
9		9130		AM9130ADC	AMD	RAM	36-48	119		9328		AM9328FM	AMD	SHIFT REG	84-35
10		9130		AM9130ADM	AMD	RAM	36-49	120		9328		AM9328PC	AMD	SHIFT REG	84-36
11		9130		AM9130APC	AMD	RAM	36-50	121		9328		MC9328L	MOTA	SHIFT REG	84-4
12		9130		AM9130BDC	AMD	RAM	36-38	122		9332		RO3-9332A	GIC	ROM	62-97
13		9130		AM9130BDM	AMD	RAM	36-39	123		9332		RO3-9332B	GIC	ROM	62-98
14		9130		AM9130BPC	AMD	RAM	36-40	124		9332		9338DC	FSC	SHIFT REG	62-95
15		9130		AM9130CDC	AMD	RAM	36-28	125		9338		9338DM	FSC	SHIFT REG	78-48
16		9130		AM9130CDM	AMD	RAM	36-29	126		9338		9338FC	FSC	SHIFT REG	78-49
17		9130		AM9130CPC	AMD	RAM	36-30	127		9338		9338FM	FSC	SHIFT REG	78-50
18		9130		AM9130DDC	AMD	RAM	36-20	128		9338		9338PC	FSC	SHIFT REG	78-51
19		9130		AM9130DDM	AMD	RAM	36-21	129		9338		9338PC	FSC	SHIFT REG	78-52
20		9130		AM9130EDC	AMD	RAM	36-13	130		9338		AM9338DC	AMD	SHIFT REG	78-57
21		9130		AM9130EPC	AMD	RAM	36-14	131		9338		AM9338DM	AMD	SHIFT REG	78-58
22		9131		AM9131ADC	AMD	RAM	36-51	132		9338		AM9338FM	AMD	SHIFT REG	78-59
23		9131		AM9131ADM	AMD	RAM	36-52	133		9338		AM9338PC	AMD	SHIFT REG	78-60
24		9131		AM9131BDC	AMD	RAM	36-41	134		9364		RO3-9364B	GIC	ROM	63-89
25		9131		AM9131BDM	AMD	RAM	36-42	135		9401		AM9401DC	AMD	SHIFT REG	88-18
26		9131		AM9131CDC	AMD	RAM	36-31	136		9401		AM9401DM	AMD	SHIFT REG	88-19
27		9131		AM9131CDM	AMD	RAM	36-32	137		9401		AM9401PC	AMD	SHIFT REG	88-20
28		9131		AM9131DDC	AMD	RAM	36-22	138		9403		9403DC	FSC	SHIFT REG	75-94
29		9131		AM9131EDC	AMD	RAM	36-15	139		9403		9403DM	FSC	SHIFT REG	75-95
30		9140		AM9140ADC	AMD	RAM	41-32	140		9404		AM9404CDC	AMD	RAM	34-76
31		9140		AM9140ADM	AMD	RAM	41-33	141		9404		AM9404DCM	AMD	RAM	34-77
32		9140		AM9140APC	AMD	RAM	41-34	142		9404		AM9404DDC	AMD	RAM	33-101
33		9140		AM9140BDC	AMD	RAM	41-14	143		9404		AM9404DDM	AMD	RAM	33-102
34		9140		AM9140BDM	AMD	RAM	41-15	144		9404		AM9404DDC	AMD	RAM	33-37
35		9140		AM9140BPC	AMD	RAM	41-16	145		9410		9410DC	FSC	RAM	20-94
36		9140		AM9140CDC	AMD	RAM	41-5	146		9410		9410DM	FSC	RAM	20-95
37		9140		AM9140CDM	AMD	RAM	41-6	147		9423		9423DC	FSC	SHIFT REG	75-97
38		9140		AM9140CPC	AMD	RAM	41-7	148		9423		9423FC	FSC	SHIFT REG	75-98
39		9140		AM9140DDC	AMD	RAM	40-95	149		9423		9423PC	FSC	SHIFT REG	75-99
40		9140		AM9140DPC	AMD	RAM	40-96	150		9650		MSL9650A	OKIJ	CHAR GEN	65-61
41		9140		AM9140EDC	AMD	RAM	40-79	151		9650		MSL9650AS	OKIJ	CHAR GEN	65-60
42		9140		AM9140EPC	AMD	RAM	40-80	152		9652		MSL9652A	OKIJ	CHAR GEN	65-62
43		9208		AM9208BDC	AMD	ROM	56-73	153		9660		MSL9660AS	OKIJ	CHAR GEN	65-59
44		9208		AM9208BDM	AMD	ROM	56-74	154		9661		MSL9661AS	OKIJ	CHAR GEN	65-9
45		9208		AM9208CDC	AMD	ROM	56-65	155		9662		MSL9662RS	OKIJ	CHAR GEN	65-10
46		9214		AM9214DC	AMD	ROM	51-4	156		9663		MSL9663RS	OKIJ	CHAR GEN	65-11
47		9214		AM9214ADM	AMD	ROM	51-5	157		9664		MSL9664RS	OKIJ	CHAR GEN	65-12
48		9216		AM9216BDC	AMD	ROM	60-80	158		9665		MSL9665RS	OKIJ	CHAR GEN	65-13
49		9216		AM9216BDM	AMD	ROM	60-81	159		9702		AM9702A-1HDC	AMD	ROM	48-85
50		9216		AM9216CDC	AMD	ROM	60-73	160		9702		AM9702A-2HDC	AMD	ROM	48-89
51		9217		AM9217ADC	AMD	ROM	60-97	161		9702		AM9702AHDC	AMD	ROM	48-94
52		9217		AM9217ADM	AMD	ROM	60-98	162		9702		AM9702AL-1HDC	AMD	ROM	48-86
53		9217		AM9217BDC	AMD	ROM	60-84	163		9702		AM9702AL-2HDC	AMD	ROM	48-90
54		9217		AM9217BDM	AMD	ROM	60-85	164		10000		F10000DC	FSC	SHIFT REG	74-74
55		9232		AM9232BCC	AMD	ROM	62-110	165		10000		F10000DM	FSC	SHIFT REG	74-75
56		9232		AM9232BDC	AMD	ROM	63-1	166		10000		F10000FC	FSC	SHIFT REG	74-76
57		9232		AM9232BDM	AMD	ROM	63-2	167		10000		F10000FM	FSC	SHIFT REG	74-77
58		9232		AM9232BPC	AMD	ROM	63-3	168		10000		F10000PC	FSC	SHIFT REG	74-78
59		9232		AM9232CCC	AMD	ROM	62-99	169		10139		10139F	MULB	ROM	44-49
60		9232		AM9232CDC	AMD	ROM	62-100	170		10139		10139F	PHIN	ROM	44-49
61		9232		AM9232CPC	AMD	ROM	62-101	171		10139		10139F	SIC	ROM	44-49
62		9233		AM9233BCC	AMD	ROM	63-4	172		10139		10139N	VALG	ROM	44-49
63		9233		AM9233BDC	AMD	ROM	63-5	173		10139		10139N	PHIN	ROM	44-50
64		9233		AM9233BDM	AMD	ROM	63-6	174		10139		10139N	SIC	ROM	44-50
65		9233		AM9233BPC	AMD	ROM	63-7	175		10139		10139N	VALG	ROM	44-50
66		9233		AM9233CCC	AMD	ROM	62-102	176		10139		MCM10139F	MOTA	ROM	44-45
67		9233		AM9233CDC	AMD	ROM	62-103	177		10139		MCM10139L	MOTA	ROM	44-46
68		9233		AM9233CPC	AMD	ROM	62-104	178		10139		GXB10139	MULB	ROM	44-51
69		9244		AM9244BDC	AMD	RAM	41-26	179		10139		GXB10139	RTCF	ROM	44-51
70		9244		AM9244BDM	AMD	RAM	41-27	180		10140		10140F	MULB	RAM	21-83
71		9244		AM9244BPC	AMD	RAM	41-28	181		10140		10140F	PHIN	RAM	21-83
72		9244		AM9244CDC	AMD	RAM	41-8	182		10140		10140F	SIC	RAM	21-83
73		9244		AM9244CDM	AMD	RAM	41-9	183		10140		GXB10140	MULB	RAM	21-86
74		9244		AM9244CPC	AMD	RAM	41-10	184		10140		GXB10140	RTCF	RAM	21-86
75		9244		AM9244DDC	AMD	RAM	40-97	185		10140		SN10140JE	TII	RAM	21-89
76		9244		AM9244DDM	AMD	RAM	40-98	186		10141		F10141DC	FSC	SHIFT REG	74-82
77		9244		AM9244DPC	AMD	RAM	40-99	187		10141		F10141FC	FSC	SHIFT REG	74-83
78		9244		AM9244EDC	AMD	RAM	40-81	188		10141		GXB10141	MULB	SHIFT REG	74-80
79		9244		AM9244EPC	AMD	RAM	40-82	189		10141		MC10141L	MOTA	SHIFT REG	74-69
80		9300		9300DC	FSC	SHIFT REG	73-3	190		10141		MC10141P	MOTA	SHIFT REG	74-70
81		9300		9300DM	FSC	SHIFT REG	73-4	191		10142		10142F	MULB	RAM	21-75
82		9300		9300FC	FSC	SHIFT REG	73-5	192		10142		10142F	PHIN	RAM	21-75
83		9300		9300FM	FSC	SHIFT REG	73-6	193		10142		10142F	SIC	RAM	21-75
84		9300		9300PC	FSC	SHIFT REG	73-7	194		10142		10142I	MULB	RAM	21-76
85		9300		N9300B	MULB	SHIFT REG	69-11	195		10142		10142I	PHIN	RAM	21-76
86		9300		N9300B	PHIN	SHIFT REG	69-11	196		10142		10142I	SIC	RAM	21-76
87		9300		N9300B	SIC	SHIFT REG	69-11	197		10142		GXB10142	MULB	RAM	21-77
88		9300		N9300E	MULB	SHIFT REG	69-12	198		10142		GXB10142	RTCF	RAM	21-77
89		9300		N9300E	PHIN	SHIFT REG	69-12	199		10142		SN10142JE	TII	RAM	21-80
90		9300		N9300E	SIC	SHIFT REG	69-12	200		10142		uPB10142D	NECJ	RAM	21-82
91		9300		N9300F	SIC	SHIFT REG	73-20	201		10143		MCM10143L	MOTA	RAM	18-93
92		9300		N9300F	VALG	SHIFT REG	73-20	202		10144		MCM10144F	MOTA	RAM	22-88
93		9300		N9300N	SIC	SHIFT REG	73-21	203		10144		MCM10144L	MOTA	RAM	22-89
94		9300		N9300N	VALG	SHIFT REG	73-21	204		10144		GXB10144	MULB	RAM	22-95
95		9300		RC9300B	MULB	SHIFT REG	69-23	205		10144		GXB10144	RTCF	RAM	22-95
96		9300		AM9300DC	AMD	SHIFT REG	71-52	206		10144		SN10144JE	TII	RAM	22-100
97		9300		AM9300DM	AMD	SHIFT REG	71-53	207		10144		uPB10144D	NECJ	RAM	22-87
98		9300		AM9300FM	AMD	SHIFT REG	71-54	208		10145		10145F	MULB	RAM	19-66
99		9300		AM9300PC	AMD	SHIFT REG	71-55	209		10145		10145F			

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2	10146	MCM10146L	MOTAR	RAM	28-34	112	10549	MCM10549F	MOTAR	RAM	46-44
3	10147	MCM10147F	MOTAR	RAM	22-35	113	10549	MCM10549L	MOTAR	RAM	46-45
4	10147	MCM10147L	MOTAR	RAM	22-36	114	10552	MCM10552F	MOTAR	RAM	22-74
5	10147	GXB10147A	SIEG	RAM	22-37	115	10552	MCM10552L	MOTAR	RAM	22-75
6	10147	SN10147JE	TII	RAM	22-40	116	10576	F10576DM	FSC	SHIFT REG	77-45
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95	37000	MK37000P-5	MOS	ROM	63-83	205	54165	RC54165B	MULB	SHIFT REG	79-10
96	40061	CD40061AD	RCA	RAM	24-31	206	54165	RC54165F	MULB	SHIFT REG	79-11
97	40061	CD40061AE	RCA	RAM	24-32	207	54165	RC54165W	MULB	SHIFT REG	79-12
98	40061	CD40061E	RCA	RAM	24-33	208	54165	ZN54165E	FERR	SHIFT REG	82-10
99	40100	CD40100BD	RCA	SHIFT REG	85-34	209	54165	ZN54165J	FERR	SHIFT REG	82-11
100	40100	CD40100BE	RCA	SHIFT REG	85-35	210	54165	S54165B	PHIN	SHIFT REG	79-13
101	40100	CD40100BF	RCA	SHIFT REG	85-36	211	54165	S54165B	SIC	SHIFT REG	79-13
102	40100	CD40100BH	RCA	SHIFT REG	85-37	212	54165	S54165F	PHIN	SHIFT REG	79-14
103	40105	CD40105BD	RCA	SHIFT REG	85-13	213	54165	S54165F	SIC	SHIFT REG	79-14
104	40105	CD40105BE	RCA	SHIFT REG	85-14	214	54165	S54165F	VALG	SHIFT REG	79-14
105	40105	CD40105BF	RCA	SHIFT REG	85-15	215	54165	S54165W	PHIN	SHIFT REG	79-15
106	40105	CD40105BH	RCA	SHIFT REG	85-10	216	54165	S54165W	SIC	SHIFT REG	79-15
107	40108	CD40108BD	RCA	RAM	18-70	217	54165	S54165W	VALG	SHIFT REG	79-15
108	40108	CD40108BE	RCA	RAM	18-71	218	54165	MC54165F	MOTAS	SHIFT REG	82-3
109	40108	CD40108BF	RCA	RAM	18-72	219	54165	MC54165L	MOTAS	SHIFT REG	82-4
110	40114	CD40114BD	RCA	RAM	21-54	220					

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2	54166	SN54166J	TII	SHIFT REG	82-28	112	54198	RC54198F	MULB	SHIFT REG	79-49
3	54166	SN54166W	TII	SHIFT REG	82-29	113	54198	RC54198N	MULB	SHIFT REG	79-50
4	54166	RC54166B	MULB	SHIFT REG	79-46	114	54198	RC54198Q	MULB	SHIFT REG	79-51
5	54166	RC54166F	MULB	SHIFT REG	79-47	115	54198	S54198F	PHIN	SHIFT REG	79-58
6	54166	RC54166W	MULB	SHIFT REG	79-48	116	54198	S54198F	SIC	SHIFT REG	79-58
7	54166	ZN54166J	FERB	SHIFT REG	82-32	117	54198	S54198F	VALG	SHIFT REG	79-58
8	54166	S54166B	PHIN	SHIFT REG	79-55	118	54198	S54198N	PHIN	SHIFT REG	79-59
9	54166	S54166B	SIC	SHIFT REG	79-55	119	54198	S54198N	SIC	SHIFT REG	79-59
10	54166	S54166F	PHIN	SHIFT REG	79-56	120	54198	S54198Q	PHIN	SHIFT REG	79-60
11	54166	S54166F	SIC	SHIFT REG	79-56	121	54198	S54198Q	SIC	SHIFT REG	79-60
12	54166	S54166F	VALG	SHIFT REG	79-56	122	54198	S54198Q	VALG	SHIFT REG	79-60
13	54166	S54166W	PHIN	SHIFT REG	79-57	123	54198	S54198W	PHIN	SHIFT REG	79-61
14	54166	S54166W	SIC	SHIFT REG	79-57	124	54198	S54198W	SIC	SHIFT REG	79-61
15	54166	S54166W	VALG	SHIFT REG	79-57	125	54198	S54198W	VALG	SHIFT REG	79-61
16	54170	54170DM	FSC	RAM	18-45	126	54199	54199DM	FSC	SHIFT REG	79-21
17	54170	54170FM	FSC	RAM	18-46	127	54199	54199FM	FSC	SHIFT REG	79-22
18	54170	SN54170J	TII	RAM	18-58	128	54199	SN54199J	TII	SHIFT REG	79-68
19	54170	SN54170W	TII	RAM	18-59	129	54199	SN54199W	TII	SHIFT REG	79-69
20	54170	RC54170B	MULB	RAM	18-29	130	54199	RC54199F	MULB	SHIFT REG	79-52
21	54170	RC54170F	MULB	RAM	18-30	131	54199	RC54199N	MULB	SHIFT REG	79-53
22	54170	RC54170W	MULB	RAM	18-31	132	54199	RC54199Q	MULB	SHIFT REG	79-54
23	54170	S54170B	PHIN	RAM	18-32	133	54199	S54199F	PHIN	SHIFT REG	79-62
24	54170	S54170B	SIC	RAM	18-32	134	54199	S54199F	SIC	SHIFT REG	79-62
25	54170	S54170F	PHIN	RAM	18-33	135	54199	S54199F	VALG	SHIFT REG	79-62
26	54170	S54170F	SIC	RAM	18-33	136	54199	S54199N	PHIN	SHIFT REG	79-63
27	54170	S54170F	VALG	RAM	18-33	137	54199	S54199N	SIC	SHIFT REG	79-63
28	54170	S54170W	PHIN	RAM	18-34	138	54199	S54199Q	PHIN	SHIFT REG	79-64
29	54170	S54170W	SIC	RAM	18-34	139	54199	S54199Q	SIC	SHIFT REG	79-64
30	54170	S54170W	VALG	RAM	18-34	140	54199	S54199W	SIC	SHIFT REG	79-65
31	54174	SN54174J	TII	SHIFT REG	77-85	141	54199	S54199W	VALG	SHIFT REG	79-65
32	54174	SN54174W	TII	SHIFT REG	77-86	142	54273	SN54273J	TII	SHIFT REG	79-110
33	54174	ZN54174E	FERB	SHIFT REG	77-89	143	54278	SN54278J	TII	SHIFT REG	67-47
34	54174	ZN54174J	FERB	SHIFT REG	77-90	144	54278	SN54278W	TII	SHIFT REG	67-48
35	54175	SN54175J	TII	SHIFT REG	71-94	145	54298	S54298F	PHIN	SHIFT REG	71-85
36	54175	SN54175W	TII	SHIFT REG	71-95	146	54298	S54298F	SIC	SHIFT REG	71-85
37	54175	ZN54175E	FERB	SHIFT REG	72-8	147	54298	S54298F	VALG	SHIFT REG	71-85
38	54175	ZN54175J	FERB	SHIFT REG	72-9	148	54298	S54298W	PHIN	SHIFT REG	71-86
39	54178	54178DM	FSC	SHIFT REG	71-37	149	54298	S54298W	SIC	SHIFT REG	71-86
40	54178	54178FM	FSC	SHIFT REG	71-38	150	54298	S54298W	VALG	SHIFT REG	71-86
41	54178	SN54178J	TII	SHIFT REG	71-96	151	54376	SN54376J	TII	SHIFT REG	73-39
42	54178	SN54178W	TII	SHIFT REG	71-97	152	54376	SN54376W	TII	SHIFT REG	73-40
43	54178	RC54178A	MULB	SHIFT REG	69-24	153	54700	M54700K	MITJ	ROM	45-84
44	54178	RC54178F	MULB	SHIFT REG	69-25	154	54700	M54700P	MITJ	ROM	45-85
45	54178	RC54178W	MULB	SHIFT REG	69-26	155	54700	M54700S	MITJ	ROM	48-80
46	54178	S54178A	PHIN	SHIFT REG	69-38	156	54730	M54730K	MITJ	ROM	44-16
47	54178	S54178A	SIC	SHIFT REG	69-38	157	54730	M54730P	MITJ	ROM	44-17
48	54178	S54178F	PHIN	SHIFT REG	69-39	158	54730	M54730S	MITJ	ROM	45-15
49	54178	S54178F	SIC	SHIFT REG	69-39	159	57401	57401AJ	MMI	SHIFT REG	86-34
50	54178	S54178W	PHIN	SHIFT REG	69-40	160	57401	57401J	MMI	SHIFT REG	86-32
51	54178	S54178W	SIC	SHIFT REG	69-40	161	57402	57402AJ	MMI	SHIFT REG	86-40
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53	54179	54179FM	FSC	SHIFT REG	71-40	163	58334	M58334-XXXXP	MITJ	ROM	63-48
54	54179	SN54179J	TII	SHIFT REG	71-98	164	58725	M58725P	MITJ	RAM	37-12
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56	54179	RC54179B	MULB	SHIFT REG	69-27	166	58725	M58725S	MITJ	RAM	37-13
57	54179	RC54179F	MULB	SHIFT REG	69-28	167	58725	M58725S-15	MITJ	RAM	36-110
58	54179	RC54179W	MULB	SHIFT REG	69-29	168	58764	M58764S-12	MITJ	RAM	43-40
59	54179	S54179B	PHIN	SHIFT REG	69-41	169	58764	M58764S-15	MITJ	RAM	43-64
60	54179	S54179B	SIC	SHIFT REG	69-41	170	58981	M58981P	MITJ	RAM	33-1
61	54179	S54179F	PHIN	SHIFT REG	69-42	171	58981	M58981S-45	MITJ	RAM	33-2
62	54179	S54179F	SIC	SHIFT REG	69-42	172	65253	UC65253K#1	SOD	ROM	45-74
63	54179	S54179W	PHIN	SHIFT REG	69-43	173	65253	UC65253K#2	SOD	ROM	49-9
64	54179	S54179W	SIC	SHIFT REG	69-43	174	65253	UC65253K#3	SOD	ROM	48-29
65	54184	SN54184J	TII	CODE CONV	66-58	175	65253	UC65253K#4	SOD	ROM	53-59
66	54184	SN54184W	TII	CODE CONV	66-59	176	65254	UC65254K#1	SOD	ROM	45-75
67	54185	SN54185AJ	TII	CODE CONV	66-64	177	65254	UC65254K#2	SOD	ROM	49-10
68	54185	SN54185AW	TII	CODE CONV	66-65	178	65254	UC65254K#3	SOD	ROM	46-30
69	54194	54194DM	FSC	SHIFT REG	71-41	179	65254	UC65254K#4	SOD	ROM	53-60
70	54194	54194FM	FSC	SHIFT REG	71-42	180	85308	MCM85308L	MOTAR	ROM	56-71
71	54194	SN54194J	AMD	SHIFT REG	71-100	181	85308	MCM85308P	MOTAR	ROM	56-72
72	54194	SN54194W	TII	SHIFT REG	71-100	182	85317	MCM85317L	MOTAR	ROM	60-92
73	54194	SN54194W	AMD	SHIFT REG	71-101	183	85317	MCM85317P	MOTAR	ROM	60-93
74	54194	SN54194W	TII	SHIFT REG	71-101	184	85723	UC65723K	SOD	ROM	49-1
75	54194	RC54194B	MULB	SHIFT REG	71-75	185	86700	MCM86700C	MOTAR	CHAR GEN	65-42
76	54194	RC54194F	MULB	SHIFT REG	71-76	186	86700	MCM86700P	MOTAR	CHAR GEN	65-43
77	54194	RC54194W	MULB	SHIFT REG	71-77	187	86710	MCM86710C	MOTAR	CHAR GEN	64-88
78	54194	ZN54194E	FERB	SHIFT REG	72-10	188	86710	MCM86710P	MOTAR	CHAR GEN	64-89
79	54194	ZN54194J	FERB	SHIFT REG	72-11	189	86714	MCM86714C	MOTAR	CHAR GEN	64-90
80	54194	S54194B	PHIN	SHIFT REG	71-82	190	86714	MCM86714P	MOTAR	CHAR GEN	64-91
81	54194	S54194B	SIC	SHIFT REG	71-82	191	86720	MCM86720C	MOTAR	CHAR GEN	64-92
82	54194	S54194F	VALG	SHIFT REG	71-82	192	86720	MCM86720P	MOTAR	CHAR GEN	64-93
83	54194	S54194F	PHIN	SHIFT REG	71-83	193	86730	MCM86730C	MOTAR	CHAR GEN	64-94
84	54194	S54194F	SIC	SHIFT REG	71-83	194	86730	MCM86730P	MOTAR	CHAR GEN	64-95
85	54194	S54194F	VALG	SHIFT REG	71-83	195	86734	MCM86734C	MOTAR	CHAR GEN	64-96
86	54194	S54194W	PHIN	SHIFT REG	71-84	196	86734	MCM86734L	MOTAR	CHAR GEN	65-58
87	54194	S54194W	SIC	SHIFT REG	71-84	197	86734	MCM86734P	MOTAR	CHAR GEN	64-97
88	54194	S54194W	VALG	SHIFT REG	71-84	198	86740	MCM86740C	MOTAR	CHAR GEN	64-98
89	54195	54195DM	FSC	SHIFT REG	73-8	199	86740	MCM86740P	MOTAR	CHAR GEN	64-99
90	54195	54195FM	FSC	SHIFT REG	73-9	200	86750	MCM86750C	MOTAR	CHAR GEN	64-100
91	54195	SN54195J	AMD	SHIFT REG	73-36	201	86750	MCM86750P	MOTAR	CHAR GEN	64-101
92	54195	SN54195J	TII	SHIFT REG	73-36	202	86751	MCM86751C	MOTAR	CHAR GEN	64-102
93	54195	SN54195N	TII	SHIFT REG	73-37	203	86751	MCM86751P	MOTAR	CHAR GEN	64-103
94	54195	SN54195W	AMD	SHIFT REG	73-38	204	86760	MCM86760C	MOTAR	CHAR GEN	64-104
95	54195	SN54195W	TII	SHIFT REG	73-38	205	86760	MCM86760P	MOTAR	CHAR GEN	64-105
96	54195	RC54195B	MULB	SHIFT REG	73-26	206	86770	MCM86770C	MOTAR	CHAR GEN	64-106
97	54195	RC54195F	MULB	SHIFT REG	73-27	207	86770	MCM86770P	MOTAR	CHAR GEN	64-107
98	54195	RC54195W	MULB	SHIFT REG	73-28	208	86780	MCM86780C	MOTAR	CHAR GEN	64-108
99	54195	S54195B	PHIN	SHIFT REG	73-33	209	86780	MCM86780P	MOTAR	CHAR GEN	64-109
100	54195	S54195B	SIC	SHIFT REG	73-33	210	86790	MCM86790C	MOTAR	CHAR GEN	64-110
101	54195	S54195F	PHIN	SHIFT REG	73-34	211	86790	MCM86790P	MOTAR	CHAR GEN	65-1
102	54195	S54195F	SIC	SHIFT REG	73-34	212	67401	67401AN	MMI	SHIFT REG	86-35
103	54195	S54195F	VALG	SHIFT REG	73-34	213	67401	67401N	MMI	SHIFT REG	86-33
104	54195	S54195W	PHIN	SHIFT REG	73-35	214	67402	67402AN	MMI	SHIFT REG	86-41
105	54195	S54195W	SIC	SHIFT REG	73-35	215	68308	MCM68308L	MOTAR	ROM	56-76
106	54195	S54195W	VALG	SHIFT REG	73-35	216	68308	MCM68308P	MOTAR	ROM	56-77
107	54195	MC54195L	MOTAR	SHIFT REG	73-15	217	68316	MCM68316EL	MOTAR	ROM	60-94
108	54198	54198DM	FSC	SHIFT REG	79-19	218	68316	MCM68316EP	MOTAR	ROM	60-95
109	54198	54198FM	FSC	SHIFT REG	79-20	219	68317	MCM68317L	MOTAR	ROM	61-14
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3		68332		S68332		AMIRAM	63-13	113		74172		N74172N		PHINRAM	18-95
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5		68708		MCM68708C		MOTAROM	58-68	115		74172		SN74172J		TIIIRAM	18-98
6		68708		MCM68708L		MOTAROM	58-69	116		74172		SN74172N		TIIIRAM	18-99
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8		68764		MCM68764L		MOTAROM	63-98	118		74174		SN74174N		TIIISHIFT REG	77-88
9		70301		SFC70301K		NPCROM	45-86	119		74174		ZN74174E		FERBISHIFT REG	77-91
10		70301		SFC70301K		THCFROM	45-86	120		74174		ZN74174J		FERBISHIFT REG	77-92
11		70301		SFC70301KM		NPCROM	45-87	121		74175		SN74175J		TIIISHIFT REG	71-102
12		70301		SFC70301KM		THCFROM	45-87	122		74175		SN74175N		TIIISHIFT REG	71-103
13		70301		SFC70301KT		NPCROM	45-88	123		74175		uPB74175C		NECJSHIFT REG	73-61
14		70301		SFC70301KT		THCFROM	45-88	124		74175		ZN74175E		FERBSHIFT REG	72-12
15		70611		SFF70611KM#1		NPCROM	48-8	125		74175		ZN74175J		FERBSHIFT REG	72-13
16		70611		SFF70611KM#1		THCFROM	48-8	126		74178		N74178A		MULBSHIFT REG	69-13
17		70611		SFF70611KM#2		NPCROM	49-60	127		74178		N74178A		PHINSHIFT REG	69-13
18		70611		SFF70611KM#2		THCFROM	49-60	128		74178		N74178A		SICSHIFT REG	69-13
19		70611		SFF70611KT#1		NPCROM	48-9	129		74178		N74178F		MULBSHIFT REG	69-14
20		70611		SFF70611KT#1		THCFROM	48-9	130		74178		N74178F		PHINSHIFT REG	69-14
21		70611		SFF70611KT#2		NPCROM	49-61	131		74178		N74178F		SICSHIFT REG	69-14
22		70611		SFF70611KT#2		THCFROM	49-61	132		74178		74178DC		FSCSHIFT REG	71-43
23		70612		SFF70612KM#1		NPCROM	51-77	133		74178		74178FC		FSCSHIFT REG	71-44
24		70612		SFF70612KM#1		THCFROM	51-77	134		74178		74178PC		FSCSHIFT REG	71-45
25		70612		SFF70612KM#2		NPCROM	53-109	135		74178		74178PC		TUNHSHIFT REG	71-45
26		70612		SFF70612KM#2		THCFROM	53-109	136		74178		SN74178J		TIIISHIFT REG	71-104
27		70612		SFF70612KT#1		NPCROM	51-78	137		74178		SN74178N		TIIISHIFT REG	71-105
28		70612		SFF70612KT#1		THCFROM	51-78	138		74179		N74179B		MULBSHIFT REG	69-15
29		70612		SFF70612KT#2		NPCROM	54-1	139		74179		N74179B		PHINSHIFT REG	69-15
30		70612		SFF70612KT#2		THCFROM	54-1	140		74179		N74179B		SICSHIFT REG	69-15
31		70701		SFF70701KM		NPCROM	49-3	141		74179		N74179F		MULBSHIFT REG	69-16
32		70701		SFF70701KM		THCFROM	49-3	142		74179		N74179F		PHINSHIFT REG	69-16
33		70701		SFF70701KT		NPCROM	49-4	143		74179		N74179F		SICSHIFT REG	69-16
34		70701		SFF70701KT		THCFROM	49-4	144		74179		74179DC		FSCSHIFT REG	71-46
35		74164		N74164A		MULBSHIFT REG	83-25	145		74179		74179FC		FSCSHIFT REG	71-47
36		74164		N74164A		PHINSHIFT REG	83-25	146		74179		74179PC		FSCSHIFT REG	71-48
37		74164		N74164A		SICSHIFT REG	83-25	147		74179		74179PC		TUNHSHIFT REG	71-48
38		74164		N74164F		MULBSHIFT REG	83-26	148		74179		SN74179J		TIIISHIFT REG	71-106
39		74164		N74164F		PHINSHIFT REG	83-26	149		74179		SN74179N		TIIISHIFT REG	72-1
40		74164		N74164F		SICSHIFT REG	83-26	150		74184		SN74184J		TIIICODE CONV	66-60
41		74164		N74164F		VALGSHIFT REG	83-26	151		74184		SN74184N		TIIICODE CONV	66-61
42		74164		N74164N		PHINSHIFT REG	83-27	152		74185		SN74185AJ		TIIICODE CONV	66-66
43		74164		N74164N		SICSHIFT REG	83-27	153		74185		SN74185AN		TIIICODE CONV	66-67
44		74164		N74164N		VALGSHIFT REG	83-27	154		74194		N74194B		MULBSHIFT REG	71-68
45		74164		74164DC		FSCSHIFT REG	83-11	155		74194		N74194B		PHINSHIFT REG	71-68
46		74164		74164FC		FSCSHIFT REG	83-12	156		74194		N74194B		SICSHIFT REG	71-68
47		74164		74164PC		FSCSHIFT REG	83-13	157		74194		N74194F		MULBSHIFT REG	71-69
48		74164		74164PC		TUNHSHIFT REG	83-13	158		74194		N74194F		PHINSHIFT REG	71-69
49		74164		SN74164J		AMDSHIFT REG	83-34	159		74194		N74194F		SICSHIFT REG	71-69
50		74164		SN74164J		TIIISHIFT REG	83-34	160		74194		N74194F		VALGSHIFT REG	71-69
51		74164		SN74164N		AMDSHIFT REG	83-35	161		74194		N74194N		PHINSHIFT REG	71-70
52		74164		SN74164N		TIIISHIFT REG	83-35	162		74194		N74194N		SICSHIFT REG	71-70
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55		74164		ZN74164J		FERBSHIFT REG	83-39	165		74194		74194FC		FSCSHIFT REG	71-50
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67	340194	340194FM	FSC	SHIFT REG	67- 54						
68	340194	340194PC	FSC	SHIFT REG	67- 55						
69	340195	340195DC	FSC	SHIFT REG	67- 56						
70	340195	340195DM	FSC	SHIFT REG	67- 57						
71	340195	340195FC	FSC	SHIFT REG	67- 58						
72	340195	340195FM	FSC	SHIFT REG	67- 59						
73	340195	340195PC	FSC	SHIFT REG	67- 60						
74	435101	HM435101	HITJ	RAM	30- 25						
75	435101	HM435101-1	HITJ	RAM	29-109						
76	435101	HM435101P	HITJ	RAM	25- 69						
77	435101	HM435101P-1	HITJ	RAM	25- 53						
78	435101	HM435101V	HITJ	RAM	25- 70						
79	435101	HM435101VP	HITJ	RAM	25- 71						
80	462316	HN462316EP	HITJ	ROM	62- 17						
81	462532	HN462532	HITJ	ROM	63- 32						
82	462708	HN462708	HITJ	ROM	58- 62						
83	462716	HN462716	HITJ	ROM	62- 10						
84	462716	HN462716G	HITJ	ROM	62- 11						
85	462732	HN462732	HITJ	ROM	63- 37						
86	472114	HM472114-3	HITJ	RAM	34- 26						
87	472114	HM472114-4	HITJ	RAM	34- 98						
88	472114	HM472114P-3	HITJ	RAM	34- 27						
89	472114	HM472114P-4	HITJ	RAM	34- 99						

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TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
9LS95DC	♦FSC	73-64	26L01N	♦SIC	24-50	53PS841J	♦MMI	59-49	54LS91J	♦RTN	83-68	63LS1680F	♦MMI	61-67
9LS95DM	♦FSC	73-65		♦VALG		53PS841N	♦MMI	59-50	54LS91W	♦RTN	83-69	63LS1680J	♦MMI	61-68
9LS95FC	♦FSC	73-66	27LS02AFM	♦MMI	19-56	53PS880F	♦MMI	56-110	54LS95BDM	♦FSC	72-21	63LS1680N	♦MMI	61-69
9LS95FM	♦FSC	73-67	27LS02AJC	♦MMI	19-48	53PS880J	♦MMI	57-1	54LS95BFM	♦FSC	72-22	63LS1681F	♦MMI	61-70
9LS95PC	♦FSC	73-68	27LS02AJM	♦MMI	19-57	53PS880N	♦MMI	57-2	54LS95BJ	♦RTN	70-13	63LS1681J	♦MMI	61-71
9LS164DC	♦FSC	80-4	27LS02ANC	♦MMI	19-49	53PS881F	♦MMI	57-3	54LS164DM	♦FSC	83-2	63LS1681N	♦MMI	61-72
9LS164DM	♦FSC	80-5	27LS03AFM	♦MMI	19-58	53PS881J	♦MMI	57-4	54LS164FM	♦FSC	83-3	63PS140F	♦MMI	46-52
9LS164FC	♦FSC	80-6	27LS03AJC	♦MMI	19-50	53PS881N	♦MMI	57-5	54LS164J	♦RTN	83-4	63PS140J	♦MMI	46-53
9LS164FM	♦FSC	80-7	27LS03AJM	♦MMI	19-59	53PS1640J	♦MMI	62-33	54LS164W	♦RTN	83-5	63PS140N	♦MMI	46-54
9LS164PC	♦FSC	80-8	27LS03ANC	♦MMI	19-61	53PS1640N	♦MMI	62-34	54LS165DM	♦FSC	82-36	63PS141F	♦MMI	46-55
9LS170DC	♦FSC	18-35	27S02AFM	♦MMI	19-40	53PS1641J	♦MMI	62-35	54LS165FM	♦FSC	82-37	63PS141J	♦MMI	46-56
9LS170DM	♦FSC	18-36	27S02AJC	♦MMI	19-32	53PS1641N	♦MMI	62-36	54LS170DM	♦FSC	18-4	63PS141N	♦MMI	46-57
9LS170FC	♦FSC	18-37	27S02AJM	♦MMI	19-41	53PS1680F	♦MMI	61-40	54LS170FM	♦FSC	18-3	63PS240F	♦MMI	49-87
9LS170FM	♦FSC	18-38	27S02AJC	♦MMI	19-33	53PS1680J	♦MMI	61-41	54LS174J	♦RTN	78-7	63PS240J	♦MMI	49-88
9LS170PC	♦FSC	18-39	27S03AFM	♦MMI	19-42	53PS1680N	♦MMI	61-42	54LS174W	♦RTN	78-8	63PS240N	♦MMI	49-89
9LS174DC	♦FSC	78-17	27S03AJC	♦MMI	19-34	53PS1681F	♦MMI	61-43	54LS175J	♦RTN	73-49	63PS241F	♦MMI	49-90
9LS174DM	♦FSC	78-18	27S03AJM	♦MMI	19-43	53PS1681J	♦MMI	61-44	54LS175W	♦RTN	73-50	63PS241J	♦MMI	49-91
9LS174FC	♦FSC	78-19	27S03AJC	♦MMI	19-35	53PS1681N	♦MMI	61-45	54LS189DM	♦FSC	20-67	63PS241N	♦MMI	49-92
9LS174FM	♦FSC	78-20	53LS080F	♦MMI	44-70	53RA281J	♦MMI	48-23	54LS189FM	♦FSC	20-68	63PS280J	♦MMI	48-43
9LS174PC	♦FSC	78-21	53LS080J	♦MMI	44-71	53RA281N	♦MMI	48-24	54LS194ADM	♦FSC	72-23	63PS280N	♦MMI	48-44
9LS175DC	♦FSC	74-7	53LS080N	♦MMI	44-72	53RA283J	♦MMI	48-25	54LS194AFM	♦FSC	72-24	63PS281J	♦MMI	48-45
9LS175DM	♦FSC	74-8	53LS081F	♦MMI	44-73	53RA283N	♦MMI	48-26	54LS194AJ	♦RTN	72-25	63PS281N	♦MMI	48-46
9LS175FC	♦FSC	74-9	53LS081J	♦MMI	44-74	53RA441F	♦MMI	54-6	54LS194AW	♦RTN	72-26	63PS440F	♦MMI	54-24
9LS175FM	♦FSC	74-10	53LS081N	♦MMI	44-75	53RA441J	♦MMI	54-7	54LS195ADM	♦FSC	72-27	63PS440J	♦MMI	54-25
9LS175PC	♦FSC	74-11	53LS140F	♦MMI	46-110	53RA441N	♦MMI	54-8	54LS195AFM	♦FSC	72-28	63PS440N	♦MMI	54-26
9LS194DC	♦FSC	73-69	53LS140J	♦MMI	47-1	53RA481J	♦MMI	51-84	54LS195AJ	♦RTN	72-29	63PS441F	♦MMI	54-27
9LS194DM	♦FSC	73-70	53LS140N	♦MMI	47-2	53RA481N	♦MMI	51-85	54LS195AW	♦RTN	72-30	63PS441J	♦MMI	54-28
9LS194FC	♦FSC	73-71	53LS141F	♦MMI	47-3	53RA483J	♦MMI	51-86	54LS289DM	♦FSC	20-69	63PS441N	♦MMI	54-29
9LS194FM	♦FSC	73-72	53LS141J	♦MMI	47-4	53RA483N	♦MMI	51-87	54LS289FM	♦FSC	20-70	63PS480J	♦MMI	52-14
9LS194PC	♦FSC	73-73	53LS141N	♦MMI	47-5	53RA841J	♦MMI	59-37	54LS295ADM	♦FSC	72-31	63PS480N	♦MMI	52-15
9LS195DC	♦FSC	73-74	53LS240F	♦MMI	50-35	53RA841N	♦MMI	59-38	54LS295AFM	♦FSC	72-32	63PS481J	♦MMI	52-16
9LS195DM	♦FSC	73-75	53LS240J	♦MMI	50-36	53RA881J	♦MMI	56-102	54LS295AJ	♦RTN	72-33	63PS481N	♦MMI	52-17
9LS195FC	♦FSC	73-76	53LS240N	♦MMI	50-37	53RA881N	♦MMI	56-103	54LS295AW	♦RTN	72-34	63PS482F	♦MMI	52-18
9LS195FM	♦FSC	73-77	53LS241F	♦MMI	50-38	53RA883J	♦MMI	56-104	54LS299DM	♦FSC	80-9	63PS482J	♦MMI	52-19
9LS195PC	♦FSC	73-78	53LS241J	♦MMI	50-39	53RA883N	♦MMI	56-105	54LS299FM	♦FSC	80-10	63PS482N	♦MMI	52-20
9LS295DC	♦FSC	73-97	53LS241N	♦MMI	50-40	53RA1641J	♦MMI	62-37	54LS322DM	♦FSC	80-11	63PS483F	♦MMI	52-21
9LS295DM	♦FSC	73-98	53LS280J	♦MMI	48-47	53RA1641N	♦MMI	62-38	54LS322FM	♦FSC	80-12	63PS483J	♦MMI	52-22
9LS295FC	♦FSC	73-99	53LS280N	♦MMI	48-48	53RA1681J	♦MMI	61-19	54LS323DM	♦FSC	80-13	63PS483N	♦MMI	52-23
9LS295FM	♦FSC	73-100	53LS281J	♦MMI	48-49	53RA1681N	♦MMI	61-20	54LS323FM	♦FSC	80-14	63PS840F	♦MMI	59-51
9LS295PC	♦FSC	73-101	53LS281N	♦MMI	48-50	53RA1683J	♦MMI	61-21	54LS378DM	♦FSC	77-95	63PS840J	♦MMI	59-52
9LS670DC	♦FSC	18-40	53LS440F	♦MMI	54-86	53RA1683N	♦MMI	61-22	54LS378FM	♦FSC	77-96	63PS840N	♦MMI	59-53
9LS670DM	♦FSC	18-41	53LS440J	♦MMI	54-87	53RS441F	♦MMI	54-9	54LS379DM	♦FSC	72-35	63PS841F	♦MMI	59-54
9LS670FC	♦FSC	18-42	53LS440N	♦MMI	54-88	53RS441J	♦MMI	54-10	54LS379FM	♦FSC	72-36	63PS841J	♦MMI	59-55
9LS670FM	♦FSC	18-43	53LS441F	♦MMI	54-89	53RS441N	♦MMI	54-11	54LS395AJ	♦RTN	70-66	63PS841N	♦MMI	59-56
9LS670PC	♦FSC	18-44	53LS441J	♦MMI	54-90	53RS481J	♦MMI	59-39	54LS395AW	♦RTN	70-67	63PS880F	♦MMI	57-6
21FO2-2F	♦PHIN	31-3	53LS441N	♦MMI	54-91	53RS841J	♦MMI	59-40	54LS395DM	♦FSC	72-37	63PS880J	♦MMI	57-7
♦SIC	♦VALG		53LS480J	♦MMI	52-38	53RS1641J	♦MMI	62-39	54LS395FM	♦FSC	72-38	63PS880N	♦MMI	57-8
21FO2-2I	♦PHIN	31-4	53LS480N	♦MMI	52-39	53S081F	♦MMI	62-40	54LS870DM	♦FSC	18-5	63PS881F	♦MMI	57-9
♦SIC	♦VALG		53LS481J	♦MMI	52-40	53S080J	♦MMI	44-52	54LS870FM	♦FSC	18-6	63PS881J	♦MMI	57-10
21FO2-2N	♦PHIN	31-5	53LS481N	♦MMI	52-41	53S080N	♦MMI	44-53	54LS870J	♦RTN	18-7	63PS881N	♦MMI	57-11
♦SIC	♦VALG		53LS482F	♦MMI	52-42	53S080F	♦MMI	44-54	54LS870W	♦RTN	18-8	63PS1640J	♦MMI	62-41
21FO2-4F	♦PHIN	31-92	53LS482J	♦MMI	52-43	53S081J	♦MMI	44-55	54S189FM	♦FSC	20-80	63PS1640N	♦MMI	62-42
♦SIC	♦VALG		53LS482N	♦MMI	52-44	53S081N	♦MMI	44-56	54S194DM	♦FSC	74-21	63PS1640N	♦MMI	62-43
21FO2-4I	♦PHIN	31-93	53LS483F	♦MMI	52-45	53S081F	♦MMI	44-57	54S194FM	♦FSC	74-22	63PS1641N	♦MMI	62-44
♦SIC	♦VALG		53LS483J	♦MMI	52-46	53S140F	♦MMI	46-78	54S289DM	♦FSC	20-81	63PS1680F	♦MMI	61-46
21FO2-4N	♦PHIN	31-94	53LS483N	♦MMI	52-47	53S140J	♦MMI	46-79	54S289FM	♦FSC	20-82	63PS1680J	♦MMI	61-47
♦SIC	♦VALG		53LS840F	♦MMI	59-74	53S140N	♦MMI	46-80	57LS376J	♦MMI	80-15	63PS1680N	♦MMI	61-48
21FO2B	MULB	31-45	53LS840J	♦MMI	59-75	53S141F	♦MMI	46-81	57S374J	♦MMI	80-16	63PS1681F	♦MMI	61-49
♦SIC	♦VALG		53LS840N	♦MMI	59-76	53S141J	♦MMI	46-82	57S376J	♦MMI	80-17	63PS1681J	♦MMI	61-50
21FO2F	♦PHIN	31-46	53LS841F	♦MMI	59-77	53S141N	♦MMI	46-83	57S378J	♦MMI	80-70	63PS1681N	♦MMI	61-51
♦SIC	♦VALG		53LS841J	♦MMI	59-78	53S240F	♦MMI	49-108	63LS080F	♦MMI	44-76	63RA281J	♦MMI	48-31
21FO2I	♦PHIN	31-47	53LS880F	♦MMI	57-44	53S240J	♦MMI	50-1	63LS080J	♦MMI	44-77	63RA281J	♦MMI	48-32
♦SIC	♦VALG		53LS880J	♦MMI	57-45	53S240N	♦MMI	50-2	63LS080N	♦MMI	44-78	63RA283J	♦MMI	48-33
21FO2N	♦PHIN	31-48	53LS880N	♦MMI	57-46	53S241F	♦MMI	50-3	63LS081F	♦MMI	44-79	63RA283J	♦MMI	48-34
♦SIC	♦VALG		53LS881F	♦MMI	57-47	53S241N	♦MMI	50-4	63LS081J	♦MMI	44-80	63RA441F	♦MMI	54-12
21L02-1B	MULB	32-20	53LS881J	♦MMI	57-48	53S280J	♦MMI	50-5	63LS081N	♦MMI	44-81	63RA441J	♦MMI	54-13
♦SIC	♦VALG		53LS881N	♦MMI	57-49	53S280N	♦MMI	48-27	63LS140F	♦MMI	46-84	63RA441N	♦MMI	54-14
21L02-1F	♦PHIN	32-21	53LS1640J	♦MMI	62-57	53S280N	♦MMI	48-28	63LS140J	♦MMI	46-85	63RA481J	♦MMI	51-98
♦SIC	♦VALG		53LS1640N	♦MMI	62-58	53S281J	♦MMI	48-29	63LS140N	♦MMI	46-86	63RA481N	♦MMI	51-99
21L02-1I	♦PHIN	32-22	53LS1641J	♦MMI	62-59	53S281N	♦MMI	48-30	63LS141F	♦MMI	46-87	63RA483J	♦MMI	51-100
♦SIC	♦VALG		53LS1680F	♦MMI	61-61	53S440F	♦MMI	54-50	63LS141J	♦MMI	46-88	63RA483N	♦MMI	51-101
21L02-1N	♦PHIN	32-73	53LS1680J	♦MMI	61-62	5								

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TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
63S440N	MMMI	54-42	74LS670PC	FSC	18-14	1507T	AMD	86-56	2141-UCB	EMM	39-55	4008BDC	FSC	77-27
63S441F	MMMI	54-43	74S189DC	FSC	20-51	1702AI	PHIN	48-96	2141-UCB	EMM	39-56	4008BDM	FSC	77-28
63S441J	MMMI	54-44	74S189FC	FSC	20-52		VALG		2141-L3	ITL	41-49	4008BFC	FSC	77-29
63S441N	MMMI	54-45	74S189PC	FSC	20-53	2101A-2F	PHIN	26-16	2141-L4	ITL	41-53	4008BFM	FSC	77-30
63S480J	MMMI	51-102	74S194DC	FSC	74-23	2101A-2N	PHIN	26-17	2141-L5	ITL	41-57	4008BPC	FSC	77-31
63S480N	MMMI	51-103	74S194FC	FSC	74-24	2101A-4F	PHIN	26-53	2142	ITL	34-86	4014BDC	FSC	81-66
63S481J	MMMI	51-104	74S194PC	FSC	74-25	2101A-4N	PHIN	26-54	2142-2	ITL	33-50	4014BDM	FSC	81-67
63S481N	MMMI	51-105	74S289DC	FSC	20-54	2101A1F	PHIN	26-35	2142-3	ITL	34-14	4014BFC	FSC	81-68
63S482F	MMMI	51-106	74S289FC	FSC	20-55	2101AN	PHIN	26-36	2142L3	ITL	34-15	4014BFM	FSC	81-69
63S482J	MMMI	51-107	74S289PC	FSC	20-56	2101N	PHIN	26-84	2142L	ITL	34-87	4014BPC	FSC	81-70
63S482N	MMMI	51-108	75S68J	MMMI	20-40		VALG		2147	INL	41-40	4015BDC	FSC	75-72
63S483F	MMMI	52-1	85S68N	MMMI	20-77	2102-1DC	FSC	31-98		ITL		4015BDM	FSC	75-73
63S483J	MMMI	52-2	93H00DC	FSC	73-103	2102-1DL	FSC	31-99	2147-3	INL	39-7	4015BFC	FSC	75-74
63S483N	MMMI	52-3	93H00DM	FSC	73-104	2102-1DM	FSC	31-100	2147-6	ITL	41-44	4015BFM	FSC	75-75
63S840F	MMMI	59-62	93H00FC	FSC	73-105	2102-1FC	FSC	31-101	2147H-3	ITL	41-37	4015BPC	FSC	75-76
63S840J	MMMI	59-63	93H00PC	FSC	73-106	2102-1FL	FSC	31-102	2147H-4	ITL	41-38	4021BDC	FSC	82-14
63S840N	MMMI	59-64	93H00PC	FSC	73-107	2102-1FM	FSC	31-103	2147L	ITL	41-41	4021BDM	FSC	82-15
63S841F	MMMI	59-65	93H72DC	FSC	73-108	2102-1PC	FSC	31-104	2503V	PHIN	87-83	4021BFC	FSC	82-16
63S841J	MMMI	59-66	93H72DM	FSC	73-109	2102-2DC	FSC	32-39	2505K	AMD	87-43	4021BFM	FSC	82-17
63S841N	MMMI	59-67	93H72FC	FSC	73-110	2102-2DL	FSC	32-40		PHIN		4021BPC	FSC	82-18
63S880F	MMMI	56-96	93H72PC	FSC	74-1	2102-2DM	FSC	32-41		VALG		4027-2F	MULB	37-52
63S880J	MMMI	56-97	93H72PC	FSC	74-2	2102-2FC	FSC	32-42	2513XCM2140	PHIN	64-55		PHIN	SIC
63S880N	MMMI	56-98	93L00DC	FSC	68-57	2102-2FL	FSC	32-43	2513XCMXXXX#1	PHIN	65-31	4027-2I	MULB	37-53
63S881F	MMMI	56-99	93L00DM	FSC	68-58	2102-2FM	FSC	32-44		PHIN			PHIN	SIC
63S881J	MMMI	56-100	93L00FC	FSC	68-59	2102-2PC	FSC	32-45	2513XCMXXXX#2	PHIN	65-32	4027-2N	MULB	37-54
63S881N	MMMI	56-101	93L00PC	FSC	68-60	2102DC	FSC	32-80		PHIN			PHIN	SIC
63S1640J	MMMI	62-53	93L00PC	FSC	68-61	2102FDC	FSC	31-52	2514NXCMXXXXPHIN	PHIN	50-88	4027-3F	MULB	37-75
63S1640N	MMMI	62-54	93L28DC	FSC	84-5		SGAI		2516N	VALG	64-24		PHIN	SIC
63S1641J	MMMI	62-55	93L28DM	FSC	84-6	2102FDL	FSC	31-53	2524N	VALG	87-45	4027-3I	MULB	37-76
63S1641N	MMMI	62-56	93L28FC	FSC	84-7	2102FDM	FSC	31-54	2526/CM3400	SIC	66-85		PHIN	SIC
63S1680F	MMMI	61-34	93L28FM	FSC	84-8		SGAI		2529N	SIC	87-4	4027-3N	MULB	37-77
63S1680J	MMMI	61-35	93L28PC	FSC	84-9	2102FFC	FSC	31-55		VALG			PHIN	SIC
63S1680N	MMMI	61-36	93L38DC	FSC	78-43	2102FFL	FSC	31-56	2529V	PHIN	87-1	4027-4F	MULB	37-109
63S1681F	MMMI	61-37	93L38DM	FSC	78-44	2102FFM	FSC	31-57		SIC			PHIN	SIC
63S1681J	MMMI	61-38	93L38FC	FSC	78-45	2102FFC	FSC	31-58	2600-1N	VALG	60-72	4027-4I	MULB	37-110
63S1681N	MMMI	61-39	93L38PC	FSC	78-46	2102HDC	FSC	31-9	2600I	MULB	60-96		PHIN	SIC
67LS376J	MMMI	80-16	93L38PC	FSC	78-47	2102HDL	FSC	31-10	2608I	VALG	56-79	4027-4N	MULB	38-1
67LS376N	MMMI	80-17	93L412DC	FSC	24-107	2102HDM	FSC	31-11	2613-15F	MULB	39-63		PHIN	SIC
67S374J	MMMI	80-71	93L412DM	FSC	25-5	2102HFC	FSC	31-12		PHIN			SIC	85-91
67S374N	MMMI	80-72	93L412FC	FSC	24-108	2102HFL	FSC	31-13		VALG			SIC	85-92
67S376J	MMMI	80-73	93L412FM	FSC	25-6	2102HFM	FSC	31-14	2613-15I	MULB	39-64		PHIN	SIC
67S376N	MMMI	80-74	93L415DC	FSC	29-7	2102HPC	FSC	31-15		PHIN			SIC	85-93
67S378J	MMMI	80-74	93L415DM	FSC	29-19	2102L1DC	FSC	31-105		VALG			SIC	85-94
67S378N	MMMI	80-75	93L415FC	FSC	29-8	2102L1DL	FSC	31-106	2613-15N	MULB	39-65	4034BDC	FSC	78-93
74F189DC	FSC	20-6	93L415FM	FSC	29-20	2102L1DM	FSC	31-107		PHIN			SIC	78-94
74F189FC	FSC	20-7	93L415PC	FSC	29-9	2102L1FC	FSC	31-108		VALG			SIC	78-95
74F189PC	FSC	20-8	93L420DC	FSC	23-93	2102L1FL	FSC	31-109	2613-20F	MULB	39-70	4034BDM	FSC	78-96
74F289DC	FSC	20-9	93L420DM	FSC	23-104	2102L1FM	FSC	31-110		PHIN			SIC	78-97
74F289FC	FSC	20-10	93L420FM	FSC	23-105	2102L1PC	FSC	32-1		VALG			SIC	68-72
74F289PC	FSC	20-11	93L421DC	FSC	24-14	2102L2DC	FSC	32-46	2613-20I	MULB	39-71	4035BDM	FSC	68-73
74F289DC	FSC	19-81	93L421DM	FSC	24-16	2102L2DL	FSC	32-47		PHIN			SIC	68-74
74LS89FC	FSC	19-82	93L421FM	FSC	24-17	2102L2DM	FSC	32-48		VALG			SIC	68-75
74LS89PC	FSC	19-83	93L421PC	FSC	24-15	2102L2FC	FSC	32-49	2613-20N	MULB	39-72	4035BFC	FSC	68-76
74LS91J	RTN	83-70	93L422DC	FSC	24-109	2102L2FL	FSC	32-50		PHIN			SIC	68-77
74LS91W	RTN	83-71	93L422DM	FSC	25-7	2102L2FM	FSC	32-51		VALG			SIC	70-6
74LS95BDC	FSC	72-39	93L422FC	FSC	24-110	2102L2PC	FSC	32-52	2613-25F	MULB	39-96	4076BDC	FSC	70-7
74LS95BDM	FSC	72-40	93L422FM	FSC	25-8	2102L2FC	FSC	31-59		PHIN			SIC	70-8
74LS95BJ	RTN	70-14	93L425DC	FSC	29-10	2102L2FL	FSC	31-60		VALG			SIC	70-9
74LS95BPC	FSC	72-41	93L425DM	FSC	29-21	2102L2FD	FSC	31-61	2613-25I	MULB	39-97	4104UMC	EMM	35-64
74LS95BPC	FSC	72-42	93L425FC	FSC	29-11	2102L2FFC	FSC	31-62		PHIN			SIC	35-65
74LS95BW	RTN	70-15	93L425PC	FSC	29-22	2102L2FL	FSC	31-63		VALG			SIC	40-74
74LS164DC	FSC	83-6	93L425FM	FSC	29-12	2102L2FFM	FSC	31-64	2613-25N	MULB	39-98	4200ACD	EMM	40-75
74LS164FC	FSC	83-7	93L425PC	FSC	74-26	2102L2HDC	FSC	31-65		PHIN			SIC	40-76
74LS164PC	FSC	83-8	93S00DC	FSC	74-27	2102L2HDL	FSC	31-16		VALG			SIC	40-77
74LS165DC	FSC	82-38	93S00DM	FSC	74-28	2102L2HDM	FSC	31-17	2613-45F	MULB	40-32	4200BPC	EMM	40-78
74LS165FC	FSC	82-39	93S00FC	FSC	74-29	2102L2LDM	FSC	31-18		PHIN			SIC	40-79
74LS165PC	FSC	82-40	93S00PC	FSC	74-30	2102L2LFL	FSC	31-19		VALG			SIC	40-80
74LS170DC	FSC	18-9	93S00PC	FSC	74-30	2102L2LFC	FSC	31-20	2613-45I	MULB	40-33	4200ACD	EMM	40-76
74LS170FC	FSC	18-10	95H00DC	FSC	74-73	2102L2LFL	FSC	31-21		PHIN			SIC	85-68
74LS170PC	FSC	18-11	370AJ	TSC	67-11	2102L2LFC	FSC	31-22		PHIN			SIC	85-69
74LS189DC	FSC	20-71	370AL	TSC	67-12	2102L2LPC	FSC	41-72	2613-45N	MULB	40-34	4557BDC	FSC	85-70
74LS189FC	FSC	20-72	370BL	TSC	67-13	2109-3	ITL	41-72		PHIN			SIC	85-71
74LS189PC	FSC	20-73	370CJ	TSC	67-14	2109-4	ITL	41-74		PHIN			SIC	85-72
74LS194ADC	FSC	72-42	370CL	TSC	67-15	2111-1I	PHIN	26-72	2616N	SIC	60-82	4720BDC	FSC	24-36
74LS194AFC	FSC	72-43	370ML	TSC	67-16		VALG		2617F	SIC	60-83	4720BDM	FSC	24-37
74LS194AJ	RTN	72-44	375AJ	TSC	67-85	2111-1N	SIC	26-73	2704I	VALG	60-83	4720BFC	FSC	24-38
74LS194APC	FSC	72-45	375AL	TSC	67-86	2111A-2F	PHIN	26-18		SIC	53-42	4720BFM	FSC	24-39
74LS194AW	RTN	72-46	375BL	TSC	67-87	2111A-2N	PHIN	26-19	3101E	AMD	20-41	4720BPC	FSC	24-40
74LS195ADC	FSC	72-47	375CJ	TSC	67-88	2111A-4F	PHIN	26-55	3255-9-7K	FSC	65-29	4721BDC	FSC	25-93
74LS195AFC	FSC	72-48	375CL	TSC	67-89	2111A-4N	PHIN	26-56						

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5172J	MMMI	64-79	5290J	MMMI	65-37	6072N	MMMI	64-80	6287-1J	MMMI	56-4	9010-1200	DSI	41-61
5173J	MMMI	64-38	5291J	MMMI	65-38	6073N	MMMI	64-39	6287-1N	MMMI	56-5	9010-1210	DSI	36-54
5174J	MMMI	64-26	5292J	MMMI	65-15	6074N	MMMI	64-27	6287-2J	MMMI	55-62	9010-1230	DSI	41-62
5200-1F	MMMI	45-105	5293J	MMMI	65-16	6155N	MMMI	64-52	6287-2N	MMMI	55-63	9010-1231	DSI	36-53
5200-1J	MMMI	45-106	5300-1D	MMMI	47-35	6156N	MMMI	64-17	6289-1J	MMMI	56-6	9010-1250	DSI	36-55
5200-1N	MMMI	45-107	5300-1F	MMMI	47-6	6161N	MMMI	64-71	6289-1N	MMMI	56-7	9010-1322	DSI	62-12
5201-1F	MMMI	45-108	5300-1J	MMMI	47-7	6162N	MMMI	64-35	6289-2J	MMMI	55-64	9010-1323	DSI	62-25
5201-1J	MMMI	46-1	5300-1N	MMMI	47-8	6171N	MMMI	64-64	6289-2N	MMMI	55-65	9010-1324	DSI	63-43
5201-1N	MMMI	46-2	5301-1D	MMMI	47-36	6172N	MMMI	64-81	6290N	MMMI	55-39	9010-1334	DSI	62-98
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5205-1J	MMMI	49-43	5301-1J	MMMI	47-9	6174N	MMMI	64-28	6292N	MMMI	65-17	9300DC	FSC	73-3
5205-1N	MMMI	49-44	5301-1N	MMMI	47-10	6200-1F	MMMI	45-89	6293N	MMMI	65-18	9300DM	FSC	73-4
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5206-1N	MMMI	49-47	5305-1J	MMMI	50-44	6201-1F	MMMI	45-92	6300-1N	MMMI	46-92	9300PC	FSC	73-7
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5235-1N	MMMI	47-89	5335-1D	MMMI	48-81	6230-1F	MMMI	44-19	6331-1J	MMMI	44-92	10139F	PHIN	44-49
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5236-1J	MMMI	47-91	5335-1J	MMMI	48-71	6230-1N	MMMI	44-21	6335-1F	MMMI	48-60		VALG	
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5240-1F	MMMI	51-43	5336-1D	MMMI	48-82	6231-1J	MMMI	44-23	6335-1N	MMMI	48-62		PHIN	
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5240-1N	MMMI	51-45	5336-1N	MMMI	48-74	6235-1F	MMMI	47-81	6336-1J	MMMI	48-64		PHIN	
5241-1F	MMMI	51-46	5336-1N	MMMI	48-75	6235-1J	MMMI	47-82	6336-1N	MMMI	48-65	10142F	MULB	21-75
5241-1J	MMMI	51-32	5340-1D	MMMI	53-27	6235-1N	MMMI	47-83	6340-1F	MMMI	52-76		PHIN	
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5248-1J	MMMI	51-28	5341-1D	MMMI	53-28	6240-1F	MMMI	51-38	6341-1J	MMMI	52-80		PHIN	
5248-1N	MMMI	51-29	5341-1J	MMMI	52-108	6240-1J	MMMI	51-39	6341-1N	MMMI	52-81	10145I	MULB	19-67
5249-1J	MMMI	51-30	5341-1J	MMMI	52-109	6240-1N	MMMI	51-40	6348-1J	MMMI	52-82		PHIN	
5249-1N	MMMI	51-31	5341-1N	MMMI	52-110	6241-1F	MMMI	51-41	6348-1N	MMMI	52-83	10148F	MULB	21-84
5250-1F	MMMI	53-92	5348-1D	MMMI	53-25	6241-1J	MMMI	51-27	6349-1J	MMMI	52-84		PHIN	
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5251-1N	MMMI	53-97	5349-1N	MMMI	53-4	6248-1N	MMMI	51-18	6351-1F	MMMI	54-59		PHIN	
5252-1F	MMMI	53-98	5350-1D	MMMI	54-2	6249-1J	MMMI	51-19	6351-1J	MMMI	54-60	10155F	PHIN	89-4
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5253-1F	MMMI	53-101	5350-1F	MMMI	54-94	6250-1J	MMMI	53-78	6352-1J	MMMI	54-63		PHIN	
5253-1J	MMMI	53-102	5351-1D	MMMI	54-3	6250-1N	MMMI	53-79	6352-1N	MMMI	54-64	10176F	MULB	78-27
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5256-1F	MMMI	59-2	5352-1F	MMMI	54-98	6252-1J	MMMI	53-84	6380-1J	MMMI	57-81	29631ADM	RTN	55-34
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5260-1F	MMMI	58-94	5353-1D	MMMI	54-5	6253-1J	MMMI	53-87	6381-1J	MMMI	57-84	29633ADC	RTN	55-33
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5280-1N	MMMI	56-14	5384-1N	MMMI	58-1	6275-1F	MMMI	60-46	6560D	MMMI	20-57	29653DC	RTN	59-95
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34014PC	♦FSC	78-102	93407ADC	♦FSC	19-8	93453DM	♦FSC	54-81				AM27S12DM	♦AMD	50-28
34015DC	♦FSC	75-23	93407AFC	♦FSC	19-9	93453PC	♦FSC	54-49	AM25LS195ADC	♦AMD	73-55	AM27S12FM	♦AMD	50-29
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34015FC	♦FSC	75-25	93407BDM	♦FSC	19-12	93454DM	♦FSC	55-66	AM25LS195ADM	♦AMD	73-56	AM27S13DM	♦AMD	50-30
34015FM	♦FSC	75-26	93407BFC	♦FSC	19-11	93454FC	♦FSC	55-49				AM27S13FM	♦AMD	50-31
34015PC	♦FSC	75-27	93407BFM	♦FSC	19-13	93454FM	♦FSC	55-67	AM25LS195AFM	♦AMD	73-57	AM27S15DC	♦AMD	52-64
34021DC	♦FSC	81-96	93410ADC	♦FSC	23-94	93454PC	♦FSC	55-50				AM27S15DM	♦AMD	53-11
34021DM	♦FSC	81-94	93410AFC	♦FSC	23-95	93454DC	♦FSC	45-95	AM25LS195APC	♦AMD	73-58	AM27S20DC	♦AMD	46-70
34021FC	♦FSC	81-95	93410AFC	♦FSC	23-96	93454DM	♦FSC	46-3				AM27S20DM	♦AMD	46-104
34021FM	♦FSC	81-96	93410DC	♦FSC	23-110	93454FM	♦FSC	45-96	AM25LS273DC	♦AMD	79-78	AM27S20FM	♦AMD	46-105
34021PC	♦FSC	81-97	93410DM	♦FSC	24-8	93454FM	♦FSC	46-4	AM25LS273DM	♦AMD	79-79	AM27S21DC	♦AMD	46-71
34035DC	♦FSC	68-89	93410FC	♦FSC	24-1	93454PC	♦FSC	45-97	AM25LS273FM	♦AMD	79-80	AM27S21DM	♦AMD	46-106
34035DM	♦FSC	68-90	93410FM	♦FSC	24-9	93454PC	♦FSC	89-88	AM25LS273PC	♦AMD	79-81	AM27S21FM	♦AMD	46-107
34035FC	♦FSC	68-91	93410PC	♦FSC	24-2	93454DM	♦FSC	89-89	AM25LS299DC	♦AMD	83-51	AM27S26DC	♦AMD	52-30
34035FM	♦FSC	68-92	93411ADC	♦FSC	23-97	93454DM	♦FSC	89-90	AM25LS299DM	♦AMD	83-52	AM27S26DM	♦AMD	52-31
34035PC	♦FSC	68-93	93411DC	♦FSC	23-106	93454DM	♦FSC	89-91	AM25LS299FM	♦AMD	83-53	AM27S27DC	♦AMD	52-32
34720DC	♦FSC	24-26	93411DM	♦FSC	24-5	93454DM	♦FSC	55-51	AM25LS299PC	♦AMD	83-54	AM27S27DM	♦AMD	52-33
34720DM	♦FSC	24-27	93411FM	♦FSC	24-6	93454DM	♦FSC	55-68	AM25LS3374DC	♦AMD	79-82	AM27S32DC	♦AMD	55-5
34720FC	♦FSC	24-28	93411FC	♦FSC	23-107	93454DM	♦FSC	55-52	AM25LS3374DM	♦AMD	79-83	AM27S32DM	♦AMD	55-9
34720FM	♦FSC	24-29	93411PC	♦FSC	24-103	93454DM	♦FSC	55-69	AM25LS3374FM	♦AMD	79-84	AM27S32PC	♦AMD	55-6
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34725DC	♦FSC	21-41	93412FC	♦FSC	24-104	93454DM	♦FSC	45-98	AM25LS3377BDC	♦AMD	79-86	AM27S33DM	♦AMD	55-10
34725DM	♦FSC	21-42	93412FM	♦FSC	25-2	93454DM	♦FSC	46-5				AM27S33PC	♦AMD	55-8
34725FC	♦FSC	21-43	93415ADC	♦FSC	28-91	93454DM	♦FSC	45-99	AM25LS377BDM	♦AMD	79-87	AM27S80DC	♦AMD	55-42
34725FM	♦FSC	21-44	93415AFC	♦FSC	28-92	93454DM	♦FSC	46-6				AM27S80DM	♦AMD	55-43
34725PC	♦FSC	21-45	93415AFC	♦FSC	28-92	93454DM	♦FSC	46-6	AM25LS377BFM	♦AMD	79-88	AM27S80XX	♦AMD	55-44
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35391CP	♦EMM	27-94	93415APC	♦FSC	28-93	93470DM	♦FSC	39-1	AM25LS377BPC	♦AMD	79-89	AM27S81DM	♦AMD	55-46
35391DC	♦FSC	27-90	93415DC	♦FSC	28-100	93470PC	♦FSC	39-3				AM27S81XX	♦AMD	55-47
35391DM	♦FSC	27-95	93415DM	♦FSC	29-13	93471DC	♦FSC	39-4	AM25LS377DC	♦AMD	79-90	AM31L01DC	♦AMD	21-34
35391DC	♦EMM	27-95	93415DM	♦FSC	28-101	93471DM	♦FSC	39-5	AM25LS377DM	♦AMD	79-91	AM31L01DM	♦AMD	21-4
35392CP	♦EMM	27-96	93415FC	♦FSC	29-14	93471PC	♦FSC	39-6	AM25LS377FM	♦AMD	79-92	AM31L01E	♦AMD	21-13
35392DC	♦FSC	68-77	93415PC	♦FSC	28-102	93481ADC	♦FSC	37-34	AM25LS377PC	♦AMD	79-93	AM31L01FM	♦AMD	21-5
40194BDC	♦FSC	68-78	93417DC	♦FSC	46-64	93481AFC	♦FSC	37-35	AM25LS2519DC	♦AMD	67-19	AM31L01PC	♦AMD	21-6
40194BDM	♦FSC	68-79	93417DM	♦FSC	46-65	93481APC	♦FSC	37-36				AM31L013E	♦AMD	21-14
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40194BFM	♦FSC	68-81	93417FM	♦FSC	46-67	93481FC	♦FSC	37-38				AM54S194W	♦AMD	74-61
40194BPC	♦FSC	68-82	93417PC	♦FSC	46-68	93481PC	♦FSC	37-39	AM25LS2519FM	♦AMD	67-21	AM54S195J	♦AMD	74-62
40195BDC	♦FSC	68-83	93419DC	♦FSC	22-10	95000DC	♦FSC	74-68				AM54S196W	♦AMD	74-63
40195BDM	♦FSC	68-84	93419DM	♦FSC	22-11	95400DC	♦FSC	19-73	AM25LS2519PC	♦AMD	67-22	AM74S194J	♦AMD	74-64
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40195BFM	♦FSC	68-86	93421DM	♦FSC	23-99	340174DC	♦FSC	77-65	AM25LS2520DC	♦AMD	80-62	AM74S195J	♦AMD	74-66
40195BPC	♦FSC	68-87	93421FC	♦FSC	24-3	340174DM	♦FSC	77-66				AM74S195N	♦AMD	74-67
54164DM	♦FSC	83-9	93421FM	♦FSC	24-4	340174FC	♦FSC	77-67	AM25LS2520DM	♦AMD	80-63	AM90L44BDC	♦AMD	41-17
54165DM	♦FSC	79-2	93421PC	♦FSC	23-100	340174FM	♦FSC	77-68				AM90L44BDM	♦AMD	41-18
54165DM	♦FSC	79-3	93422DC	♦FSC	24-105	340174PC	♦FSC	77-69	AM25LS2520PC	♦AMD	80-64	AM90L44BPC	♦AMD	41-19
54166DM	♦FSC	79-17	93422DM	♦FSC	25-3	340175DC	♦FSC	74-102				AM90L44DC	♦AMD	40-102
54166DM	♦FSC	79-18	93422FC	♦FSC	24-106	340175DM	♦FSC	74-103	AM25S07DC	♦AMD	77-49	AM90L44CDM	♦AMD	40-103
54170DM	♦FSC	18-45	93422FM	♦FSC	25-4	340175FC	♦FSC	74-104	AM25S07DM	♦AMD	77-50	AM90L44PC	♦AMD	40-104
54170FM	♦FSC	18-46	93425ADC	♦FSC	28-103	340175FM	♦FSC	74-105	AM25S07FM	♦AMD	77-51	AM90L44DDC	♦AMD	40-87
54178DM	♦FSC	71-37	93425AI	MULB	28-104	340175PC	♦FSC	74-106	AM25S07PC	♦AMD	77-52	AM90L44DC	♦AMD	40-88
54178FM	♦FSC	71-38		PHIN		340194DC	♦FSC	67-51	AM25S08DC	♦AMD	67-23	AM90L60DC	♦AMD	38-32
54179DM	♦FSC	71-39	93425APC	♦FSC	28-105	340194DM	♦FSC	67-52	AM25S08DM	♦AMD	67-24	AM90L60PC	♦AMD	38-33
54179FM	♦FSC	71-40	93425DC	♦FSC	29-23	340194FC	♦FSC	67-53	AM25S08FM	♦AMD	67-25	AM90L60DDC	♦AMD	38-2
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54194FM	♦FSC	71-42	93425FM	♦FSC	29-29	340194PC	♦FSC	67-55	AM25S09DC	♦AMD	67-27	AM90L60EDC	♦AMD	37-78
54195DM	♦FSC	73-8	93425PC	♦FSC	29-24	340195DC	♦FSC	67-56	AM25S09DM	♦AMD	67-28	AM90L60EPC	♦AMD	37-79
54195FM	♦FSC	73-9	93427DC	♦FSC	46-67	340195DM	♦FSC	67-57	AM25S09FM	♦AMD	67-29	AM91L01ADC	♦AMD	27-63
54198DM	♦FSC	79-19	93427DM	♦FSC	46-68	340195FC	♦FSC	67-58	AM25S09PC	♦AMD	67-30	AM91L01ADM	♦AMD	27-64
54198FM	♦FSC	79-20	93427FC	♦FSC	46-68	340195FM	♦FSC	67-59	AM25S10DC	♦AMD	67-31	AM91L01AFM	♦AMD	27-65
54199DM	♦FSC	79-21	93427FM	♦FSC	46-69	340195PC	♦FSC	67-60	AM25S10DM	♦AMD	67-32	AM91L01APC	♦AMD	27-66
54199FM	♦FSC	79-22	93427PC	♦FSC	46-69	Am9112APC	♦AMD	26-6	AM25S10FM	♦AMD	67-33	AM91L01BDC	♦AMD	27-32
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57401J	♦MMI	86-32	93431DM	♦FSC	49-36	AM25L02DM	♦AMD	78-77	AM25S18DC	♦AMD	74-52	AM91L01BFM	♦AMD	27-34
57402AJ	♦MMI	86-40	93431FC	♦FSC	49-23	AM25L02FM	♦AMD	78-78	AM25S18DM	♦AMD	74-53	AM91L01BPC	♦AMD	27-35
67401AN	♦MMI	86-35	93431FM	♦FSC	49-37	AM25L02PC	♦AMD	78-79	AM25S18FM	♦AMD	74-54	AM91L01CDC	♦AMD	27-14
67401N	♦MMI	86-33	93431PC	♦FSC	49-24	AM25L03DC	♦AMD	78-80	AM25S18PC	♦AMD	74-55	AM91L01CDM	♦AMD	27-15
67402AN	♦MMI	86-41	93432DC	♦FSC	51-8	AM25L03DM	♦AMD	78-81	AM27LS00DC	♦AMD	23-26	AM91L01CPC	♦AMD	27-16
74164DC	♦FSC	83-11	93432DM	♦FSC	51-21	AM25L03FM	♦AMD	78-82	AM27LS00DM	♦AMD	23-51	AM91L02ADC	♦AMD	32-23
74164FC	♦FSC	83-12	93432FC	♦FSC	51-9	AM25L03PC	♦AMD	78-83	AM27LS00FM	♦AMD	23-52	AM91L02ADM	♦AMD	32-24
74164PC	♦FSC	83-13	93432FM	♦FSC	51-22	AM25L04DC	♦AMD	84-83	AM27LS00PC	♦AMD	23-27	AM91L02AFM	♦AMD	32-25
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74165DC	♦FSC	79-4	93436DC	♦FSC	49-99	AM25L04FM	♦AMD	84-89	AM27LS01DM	♦AMD	23-53	AM91L02BDC	♦AMD	31-84
74165FC	♦FSC	79-5	93436DM	♦FSC	50-24	AM25L04PC	♦AMD	84-90	AM27LS01FM	♦AMD	23-54	AM91L02BDM	♦AMD	31-85
74165PC	♦FSC	79-6	93436FC	♦FSC	49-100	AM25L07DC	♦AMD	78-9	AM27LS01PC	♦AMD	23-29	AM91L02BFM	♦AMD	31-86
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AM91130CDM	♦AMD	36-24	AM2806HC	♦AMD	87-103	AM9111APC	♦AMD	27-82	AM9244EPC	♦AMD	40-82
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AM91140DDC	♦AMD	40-89	AM2833DC	♦AMD	88-11	AM9112BPC	♦AMD	27-55	AM9404DDM	♦AMD	33-103
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AM93138FM	♦AMD	78-55	AM3341PC	♦AMD	86-23	AM9124FCM	♦AMD	35-78			
AM93138PC	♦AMD	78-56	AM3355DC	♦AMD	88-14	AM9124EDC	♦AMD	35-55			
AM1402A51E	♦AMD	87-31	AM3355PC	♦AMD	88-15	AM9124EPC	♦AMD	35-56			
AM1402A51F	♦AMD	87-32	AM9016CDC	♦AMD	42-107	AM9130ADC	♦AMD	36-48			
AM1402A59F#1	♦AMD	87-33	AM9016DCD	♦AMD	42-108	AM9130ADM	♦AMD	36-49			
AM1402A59F#2	♦AMD	87-17	AM9016DDC	♦AMD	42-75	AM9130APC	♦AMD	36-50			
AM1402A#1	♦AMD	87-26	AM9016DPC	♦AMD	42-76	AM9130BDC	♦AMD	36-38			
AM1402A#2	♦AMD	87-18	AM9016EDC	♦AMD	42-36	AM9130BDM	♦AMD	36-39			
AM1402ADM#	♦AMD	87-27	AM9016EPC	♦AMD	42-37	AM9130BPC	♦AMD	36-40			
			AM9016FFDC	♦AMD	42-3	AM9130CCD	♦AMD	36-28			
AM1402ADM#2	♦AMD	87-19	AM9016PCD	♦AMD	42-4	AM9130CDM	♦AMD	36-29			
			AM9044BDC	♦AMD	41-23	AM9130CPC	♦AMD	36-30			
AM1402APC#1	♦AMD	87-28	AM9044BDM	♦AMD	41-24	AM9130DDC	♦AMD	36-20			
AM1402APC#2	♦AMD	87-20	AM9044BPC	♦AMD	41-25	AM9130DPC	♦AMD	36-21			
AM1403A51F	♦AMD	87-84	AM9044CCD	♦AMD	41-2	AM9130EDC	♦AMD	36-13			
AM1403A51T	♦AMD	87-85	AM9044CDM	♦AMD	41-3	AM9130EPC	♦AMD	36-14			
AM1403A59F#1	♦AMD	87-86	AM9044CPC	♦AMD	41-4	AM9131ADC	♦AMD	36-51			
AM1403A59F#2	♦AMD	87-66	AM9044DDC	♦AMD	40-92	AM9131ADM	♦AMD	36-52			
AM1403A#1	♦AMD	87-77	AM9044DDM	♦AMD	40-93	AM9131BDC	♦AMD	36-41			
AM1403A#2	♦AMD	87-67	AM9044DPC	♦AMD	40-94	AM9131BDM	♦AMD	36-42			
AM1403AHM#1	♦AMD	87-78	AM9044EDC	♦AMD	40-77	AM9131CCD	♦AMD	36-31			
			AM9044EPC	♦AMD	40-78	AM9131CDM	♦AMD	36-32			
AM1403AHM#2	♦AMD	87-68	AM9050DCD	♦AMD	38-34	AM9131DDC	♦AMD	36-22			
			AM9050CCP	♦AMD	38-35	AM9131EDC	♦AMD	36-15			
AM1403APC#1	♦AMD	87-79	AM9050DDC	♦AMD	38-4	AM9140ADC	♦AMD	41-32			
AM1403APC#2	♦AMD	87-69	AM9050DPC	♦AMD	38-5	AM9140ADM	♦AMD	41-33			
AM1404A51F	♦AMD	88-5	AM9050EDC	♦AMD	37-80	AM9140APC	♦AMD	41-34			
AM1404A51T	♦AMD	88-6	AM9050EPC	♦AMD	37-81	AM9140BDC	♦AMD	41-14			
AM1404A59F#1	♦AMD	88-7	AM9060DCD	♦AMD	38-36	AM9140BDM	♦AMD	41-15			
AM1404A59F#2	♦AMD	87-95	AM9060CCP	♦AMD	38-37	AM9140BPC	♦AMD	41-16			
AM1404A#1	♦AMD	87-109	AM9060DDC	♦AMD	38-6	AM9140CCD	♦AMD	41-5			
AM1404A#2	♦AMD	87-96	AM9060DPC	♦AMD	38-7	AM9140CDM	♦AMD	41-6			
AM1404AHM#1	♦AMD	87-110	AM9060EDC	♦AMD	37-82	AM9140CPC	♦AMD	41-7			
			AM9060EPC	♦AMD	37-83	AM9140DDC	♦AMD	40-95			
AM1404AHM#2	♦AMD	87-97	AM9101	♦AMD	26-13	AM9140DPC	♦AMD	40-96			
			AM9101ADC	♦AMD	27-75	AM9140EDC	♦AMD	40-79			
AM1404APC#1	♦AMD	88-1	AM9101ADM	♦AMD	27-76	AM9140EPC	♦AMD	40-80			
AM1404APC#2	♦AMD	87-98	AM9101AFM	♦AMD	27-77	AM9208BDC	♦AMD	56-73			
AM1406HM	♦AMD	86-57	AM9101APC	♦AMD	27-78	AM9208BDM	♦AMD	56-74			
AM1407HM	♦AMD	86-58	AM9101BDC	♦AMD	27-44	AM9208CCD	♦AMD	56-65			
AM1506HC	♦AMD	86-59	AM9101BDM	♦AMD	27-45	AM9214DC	♦AMD	51-4			
AM1507HC	♦AMD	86-60	AM9101BFM	♦AMD	27-46	AM9214DM	♦AMD	51-5			
AM1702A	♦AMD	48-92	AM9101BPC	♦AMD	27-47	AM9216BDC	♦AMD	60-80			
AM1702A-1	♦AMD	48-83	AM9101CCD	♦AMD	27-23	AM9216BDM	♦AMD	60-81			
AM1702A-2	♦AMD	48-87	AM9101CDM	♦AMD	27-24	AM9216CCD	♦AMD	60-73			
AM1702AL	♦AMD	48-93	AM9101CPC	♦AMD	27-25	AM9217ADC	♦AMD	60-97			
AM1702AL-1	♦AMD	48-84	AM9101DDC	♦AMD	27-8	AM9217ADM	♦AMD	60-98			
AM1702AL-2	♦AMD	48-88	AM9101DPC	♦AMD	27-9	AM9217BDC	♦AMD	60-84			
AM2502DC	♦AMD	78-103	AM9101EDC	♦AMD	26-7	AM9217BDM	♦AMD				

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CD40208BK	RC	18-78	D2115AL-2	ITL	30-104	DM74S287J	NSC	46-74	F2114DC	FS	34-93	FJJ181-7475	MULB	87-35
CDP1821CE	RC	30-26	D2117-2	ITL	43-5	DM74S287N	NSC	46-75	F2114L2DC	FS	33-58	PHIN	SIC	
CDP1821D	RC	30-27	D2117-3	ITL	43-12	DM74S288J	NSC	44-84	F2114L2PC	FS	33-59	FLH561-74184	SIEG	66-56
CDP1821SCD	RC	30-28	D2117-4	ITL	43-21	DM74S288N	NSC	44-85	F2114L3DC	FS	34-23	FLH565-84184	SIEG	66-57
CDP1821SD	RC	30-29	D2125A	ITL	30-93	DM74S387J	NSC	46-76	F2114L3PC	FS	34-24	FLH571-74185A		66-62
CDP1822CD	RC	25-99	D2125A-2	ITL	30-105	DM74S387N	NSC	46-77	F2114LDC	FS	34-94		SIEG	
CDP1822CE	RC	25-99	D2125AL	ITL	30-94	DM74S472J	NSC	52-65	F2114LPC	FS	34-95	FLH575-84185A		66-63
CDP1822D	RC	25-84	D2125AL-2	ITL	30-106	DM74S472N	NSC	52-66	F2114PC	FS	34-96		SIEG	
CDP1822E	RC	25-85	D2141-2	ITL	41-47	DM74S473J	NSC	52-67	F2708-1DC	FS	58-49	FLJ151-7475	SIEG	67-36
CDP1823CD	RC	22-43	D2141-3	ITL	41-50	DM74S473N	NSC	52-68	F2708DC	FS	58-59	FLJ155-8475	SIEG	67-37
CDP1823CE	RC	22-44	D2141-4	ITL	41-54	DM74S474J	NSC	52-72	F2708DL	FS	58-60	FLJ161-7490	SIEG	69-46
CDP1823D	RC	22-45	D2141-5	ITL	41-58	DM74S474N	NSC	52-73	F2708DM	FS	58-61	FLJ165-8490	SIEG	69-47
CDP1823E	RC	22-46	D2141L-3	ITL	41-51	DM74S475J	NSC	52-74	F271600D	FS	61-107	FLJ191-7495A	SIEG	71-59
CDP1824CD	RC	21-69	D2141L-4	ITL	41-55	DM74S475N	NSC	52-75	F10000DC	FS	74-74	FLJ195-8495A	SIEG	71-58
CDP1824CE	RC	21-64	D2141L-5	ITL	41-59	DM74S570J	NSC	50-6	F10000DM	FS	74-75	FLJ221-7481A	SIEG	83-77
CDP1824D	RC	21-70	D2147	ITL	41-42	DM74S570N	NSC	50-7	F10000F	FS	74-76	FLJ225-8491A	SIEG	83-78
CDP1824E	RC	21-65	D2147-3	ITL	41-39	DM74S571J	NSC	50-8	F10000FM	FS	74-77	FLJ231-7484A	SIEG	88-66
CDP1825CD	RC	33-10	D2147L	ITL	41-43	DM74S571N	NSC	50-9	F10000FF	FS	74-78	FLJ235-8494A	SIEG	68-67
CDP1825CE	RC	33-11	D2708	ITL	58-56	DM74S572J	NSC	54-68	F10141DC	FS	74-82	FLJ261-7496	SIEG	76-20
CDP1825D	RC	33-12	D2708-1	ITL	58-48	DM74S572N	NSC	54-69	F10141FC	FS	74-83	FLJ265-8496	SIEG	76-19
CDP1825E	RC	33-13	D2708-6	ITL	58-79	DM74S573J	NSC	54-70	F10145ADC	FS	19-68	FLJ311-74198	SIEG	79-32
CDP1831CD	RC	51-59	D2708L	ITL	58-57	DM74S573N	NSC	54-71	F10145AFC	FS	19-69	FLJ315-84198	SIEG	79-33
CDP1831CE	RC	51-60	D2716	ITL	61-16	DM76S64J	NSC	64-56	F10145APC	FS	19-70	FLJ321-74199	SIEG	79-34
CDP1831D	RC	51-61	D2716-1	ITL	62-21	DM76S128J	NSC	64-75	F10176DC	FS	77-39	FLJ325-84199	SIEG	79-35
CDP1831E	RC	51-62	D2716-2	ITL	62-22	DM77S180J	NSC	57-63	F10176FC	FS	77-40	FLJ361-74118	SIEG	77-53
CDP1832CD	RC	51-63	D2716-5	ITL	62-23	DM77S181J	NSC	57-64	F10176PC	FS	77-41	FLJ365-84118	SIEG	77-54
CDP1832CE	RC	51-64	D2716-6	ITL	62-24	DM77S184J	NSC	59-93	F10186DC	FS	77-42	FLJ375-84119	SIEG	77-55
CDP1832D	RC	51-65	D2732	ITL	63-31	DM77S188J	NSC	59-94	F10186FC	FS	77-43	FLJ375-84119	SIEG	77-56
CDP1832E	RC	51-66	D2732-6	ITL	63-33	DM77S188J	NSC	44-68	F10186PC	FS	77-44	FLJ441-74164	SIEG	83-23
CDP1833CD	RC	56-38	D2732A	ITL	63-30	DM77S190J	NSC	61-88	F10405DC	FS	22-38	FLJ445-84164	SIEG	83-24
CDP1833CE	RC	56-39	D2758	ITL	56-88	DM77S191J	NSC	61-89	F10405FC	FS	22-39	FLJ451-74165	SIEG	82-23
CDP1833D	RC	56-40	D2764	ITL	63-34	DM77S288J	NSC	44-69	F10410DC	FS	22-92	FLJ455-84165	SIEG	82-24
CDP1833E	RC	56-41	D3101	ITL	20-104	DM85S68D	NSC	20-78	F10410FC	FS	22-93	FLJ461-74166	SIEG	79-36
CDP1834CD	RC	56-42	D3101A	ITL	20-59	DM85S68N	NSC	20-79	F10410PC	FS	22-94	FLJ465-84166	SIEG	79-37
CDP1834CE	RC	56-43	D3242	ITL	90-13	DM86S64J	NSC	64-57	F10411DC	FS	22-96	FLJ481-4932	SIEG	84-10
CDP1834D	RC	56-44	D3301A	ITL	45-101	DM86S64N	NSC	64-58	F10411FC	FS	22-97	FLJ485-49832	SIEG	84-11
CDP1834E	RC	56-45	D3302A4	ITL	49-52	DM86S128J	NSC	64-76	F10411PC	FS	22-98	FLJ491-49702	SIEG	68-96
CM1600-2C	STX	60-21	D3304A6	ITL	50-90	DM87S180J	NSC	57-65	F10414DC	FS	22-77	FLJ495-49802	SIEG	68-97
CM1600-2D	STX	60-22	D3322A4	ITL	49-53	DM87S180N	NSC	57-66	F10414FC	FS	22-78	FLJ531-74174	SIEG	77-57
CM1600-3C	STX	60-23	D3322A4	ITL	49-53	DM87S181J	NSC	57-67	F10415ADC	FS	28-26	FLJ535-84174	SIEG	77-58
CM1600-3D	STX	60-24	D3322A4	ITL	49-54	DM87S181N	NSC	57-68	F10415AFC	FS	28-27	FLJ541-74175	SIEG	67-38
CM1600-3E	STX	60-25	D3322A4	ITL	49-54	DM87S184J	NSC	59-68	F10415DC	FS	28-38	FLJ545-84175	SIEG	67-39
CM1600C	STX	60-19	D3324A4	ITL	51-34	DM87S184N	NSC	59-69	F10415FC	FS	28-39	FLJ551-74194	SIEG	71-60
CM1600P	STX	60-20	D3324A	ITL	51-26	DM87S185J	NSC	59-70	F10416DC	FS	46-36	FLJ555-84194	SIEG	71-61
CM2102A4	ITL	32-3	D3628	ITL	57-71	DM87S185N	NSC	59-71	F10422DC	FS	46-37	FLJ561-74195	SIEG	73-13
CM3200-2C	STX	63-20	D3628-4	ITL	57-98	DM87S188J	NSC	44-64	F10422FC	FS	24-72	FLJ565-84195	SIEG	73-14
CM3200-2D	STX	63-21	D3628A	ITL	57-56	DM87S188N	NSC	44-65	F10470DC	FS	24-73	FLQ101-7489	SIEG	21-30
CM3200-2E	STX	63-22	D3628A-1	ITL	57-43	DM87S190J	NSC	61-77	F10541DM	FS	74-84	FLQ105-8489	SIEG	21-31
CM3200-3C	STX	63-24	D3636	ITL	61-76	DM87S190N	NSC	61-78	F10541FC	FS	74-85	FLQ111-7481A	SIEG	18-107
CM3200-3D	STX	63-25	D3636-1	ITL	61-80	DM87S191J	NSC	61-79	F10545ADM	FS	74-85	FLQ115-8481A	SIEG	18-108
CM3200-3E	STX	63-26	DL1-2080	GIC	86-44	DM87S191N	NSC	61-80	F10545AFM	FS	19-71	FLQ121-7484A	SIEG	18-109
CM3200-C	STX	63-16	DL9-1024-23#1	GIC	87-90	DM87S288J	NSC	61-80	F10545DFM	FS	19-72	FLQ125-8484A	SIEG	18-110
CM3200-D	STX	63-17	DL9-1024-23#2	GIC	87-105	DM87S288N	NSC	44-66	F10576DM	FS	77-45	FLQ131-74170	SIEG	18-63
CM4006AD	SOD	76-81	DL9-1024-28#1	GIC	87-91	DM8678B	NSC	64-59	F10576FM	FS	77-46	FR135-84170	SIEG	18-64
CM4006AE	SOD	76-80	DL9-1024-28#2	GIC	87-91	DM8678N	NSC	64-60	F10586DM	FS	77-47	FR1502E01	WDC	85-54
CM4006AF	SOD	76-88	DL9-1024-28#3	GIC	87-91	DM10414J	NSC	22-82	F10586FM	FS	77-48	FR1502E02	WDC	85-53
CM4014AD	SOD	78-38	DL9-1024-69#1	GIC	87-106	DM10414N	NSC	22-83	F95000DC	FS	74-79	FR1502E	WDC	85-56
CM4014AE	SOD	81-5	DL9-1024-69#2	GIC	87-106	DM10415A	NSC	28-24	F10014DC	FS	80-85	FZJ161	SIEG	67-80
CM4014AF	SOD	81-31	DL9-1024-69#3	GIC	87-92	DM10415AN	NSC	28-25	F10014FC	FS	80-86		VALG	
CM4015AD	SOD	75-41	DL9-1024-69#4	GIC	87-92	DM10415N	NSC	28-26	F10014IFC	FS	89-2	FZJ165	SIEG	67-81
CM4015AE	SOD	75-38	DL9-1024-69#5	GIC	87-107	EA2114L-15PC	EAI	33-38	F100142DC	FS	19-64	GFB7496D	MULB	76-56
CM4015AF	SOD	75-58	DL9-1402A26#1	GIC	87-29	EA2114L-20PC	EAI	33-39	F100142FC	FS	19-65	GXB10139	MULB	44-51
CM4021AD	SOD	83-58	DL9-1402A26#2	GIC	87-29	EA2114L-25PC	EAI	33-103	F100145DC	FS	19-65	GXB10140	MULB	21-86
CM4021AE	SOD	83-57	DL9-1402A26#3	GIC	87-31	EA2114L-30PC	EAI	34-20	F100151DC	FS	78-32	GXB10141	MULB	74-80
CM4021AF	SOD	81-32	DL9-1402A55#1	GIC	87-30	EA2114LPC	EAI	34-92	F100141FC	FS	22-80	GXB10142	MULB	21-77
CM4035AD	SOD	68-8	DL9-1403A15#1	GIC	87-22	EA2308AC	EAI	56-56	F100144DC	FS	22-79	GXB10143	MULB	74-80
CM4035AE	SOD	68-9	DL9-1403A15#2	GIC	87-20	EA2308AP	EAI	56-56	F100145DC	FS	22-80	GXB10144	MULB	21-77
CM4035AF	SOD	68-78	DL9-1403A15#3	GIC	87-80	EA2308AD	EAI	56-84	F100145FC	FS	28-28	GXB10145	MULB	22-95
CM4042AD	SOD	67-61	DL9-1403A26#1	GIC	87-70	EA2308AP	EAI	56-57	F100146DC	FS	28-29	GXB10146	MULB	22-95
CM4042AE	SOD	67-62	DL9-1403A26#2	GIC	87-81	EA2316ADM	EAI	61-6	F100146FC	FS	28-29	GXB10147	MULB	22-95
CM4042AF	SOD	67-62	DL9-1403A26#3	GIC	87-71	EA2704DC	EAI	61-8	F100147DC	FS	46-38	GXB10148	MULB	22-95
CM6400-3C	STX	63-53	DL9-1403A55#1	GIC	87-82	EA2704DL	EAI	53-45	F100147FC	FS	46-39	GXB10149	MULB	19-74
CM6400-3D	STX	63-54	DL9-1403A55#2	GIC	87-82	EA2								

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PHIN	SIC		HEF4021B	VALG	80-88	HM2112B	HITJ	30-90	IM65X08-1MJ	INL	30-40	IM5610MJE	INL	45-14
HAB1502	MULB	28-8	HEF4021BD	MULB	81-98	HM2504	HITJ	23-108	IM65X08A-1ID	INL	30-32	IM5623ACFE	INL	47-41
PHIN	SIC			PHIN		HM2504-1	HITJ	23-98	IM65X08A-1IJ	INL	30-33	IM5623ACDE	INL	47-42
HBC4006AD	SGAI	77-1	HEF4021BP	MULB	82-1	HM2510	HITJ	29-25	IM65X08A-1MD	INL	30-46	IM5623ACJE	INL	47-43
HBC4006AF	SGAI	77-2		PHIN		HM2510-1	HITJ	28-106	IM65X08A-1MF	INL	30-47	IM5623ACPE	INL	47-44
HBC4006AK	SGAI	77-3	HEF4021P	VALG	82-2	HM2510-2	HITJ	28-98	IM65X08A-1MJ	INL	30-48	IM5623AMDE	INL	47-45
HBC4014AD	SGAI	81-33	HEF4031B	VALG	85-73	HM2511	HITJ	29-26	IM65X08AID	INL	30-49	IM5623AMFE	INL	47-46
HBC4014AF	SGAI	81-34	HEF4031BD	MULB	85-104	HM2511-1	HITJ	28-107	IM65X08AIJ	INL	30-50	IM5623AMJE	INL	47-47
HBC4014AK	SGAI	81-35		PHIN		HM4315P	HITJ	40-35	IM65X08AMD	INL	30-51	IM5623ACDE	INL	47-49
HBC4014AD	SGAI	75-59	HEF4031BP	MULB	85-105	HM4334P-3	HITJ	34-25	IM65X08AMF	INL	30-52	IM5623ACFE	INL	47-54
HBC4015AF	SGAI	75-60		PHIN		HM4334P-4	HITJ	34-97	IM65X08AMJ	INL	30-53	IM5623MFE	INL	47-55
HBC4015AK	SGAI	75-61	HEF4031P	VALG	85-90	HM4704L-2	HITJ	37-57	IM65X08CJ	INL	30-71	IM5624CFE	INL	50-72
HBC4021AD	SGAI	81-36	HEF4035B	VALG	67-68	HM4704L-3	HITJ	37-86	IM65X08HJ	INL	30-61	IM5624CJE	INL	49-78
HBC4021AF	SGAI	81-37	HEF4035BD	MULB	70-4	HM4704L-4	HITJ	38-10	IM65X08ID	INL	30-62	IM5624MFE	INL	49-79
HBC4021AK	SGAI	81-38		PHIN		HM4704L-6	HITJ	38-52	IM65X08IJ	INL	30-63	IM5624MJE	INL	49-80
HBC4031AD	SGAI	85-84	HEF4035BP	MULB	70-5	HM4716A-1	HITJ	41-103	IM65X08MD	INL	30-64	IM5624MJE	INL	50-73
HBC4031AF	SGAI	85-85		PHIN		HM4716A-2	HITJ	42-7	IM65X08MF	INL	30-65	IM6312ACDN	INL	59-5
HBC4031AK	SGAI	85-86	HEF4035P	VALG	68-87	HM4716A-3	HITJ	42-40	IM65X18-1ID	INL	30-41	IM6312AIDN	INL	59-10
HBC4034AD	SGAI	81-39	HEF4076B	VALG	68-88	HM4716A-4	HITJ	42-79	IM65X18-1IJ	INL	30-42	IM6312AIJN	INL	59-6
HBC4034AK	SGAI	81-40	HEF4076BD	MULB	69-68	HM4716A-5	HITJ	41-104	IM65X18-1MD	INL	30-43	IM6312AMDN	INL	59-8
HBC4035AD	SGAI	68-10		PHIN		HM4716A-1P	HITJ	42-8	IM65X18-1MF	INL	30-44	IM6312CDN	INL	59-11
HBC4035AF	SGAI	68-11	HEF4076BP	MULB	69-69	HM4716A-2P	HITJ	42-41	IM65X18-1MJ	INL	30-45	IM6312CFN	INL	59-12
HBC4035AK	SGAI	68-12		PHIN		HM4716A-3P	HITJ	42-80	IM65X18A-1ID	INL	30-34	IM6312CJN	INL	59-13
HBC4036AD	SGAI	18-81	HEF4076P	VALG	67-69	HM4716A-4P	HITJ	42-80	IM65X18A-1IJ	INL	30-35	IM6312IDN	INL	59-14
HBC4036AK	SGAI	18-82	HEF4094BD	MULB	82-68	HM4847	HITJ	41-98	IM65X18A-1MJ	INL	30-35	IM6312IFN	INL	59-7
HBC4039AD	SGAI	18-83		PHIN		HM4847-2	HITJ	39-37	IM65X18A-1MJ	INL	30-55	IM6312IUN	INL	59-15
HBC4042AD	SGAI	67-63	HEF4094BP	MULB	82-69	HM4847-3	HITJ	40-63	IM65X18AID	INL	30-56	IM6312MDN	INL	59-16
HBC4042AF	SGAI	67-64	HEF4505BD	MULB	21-92	HM4847-4	HITJ	39-27	IM65X18AIJ	INL	30-57	IM6312MFN	INL	59-9
HBC4042AK	SGAI	67-65		PHIN		HM4864-2	HITJ	43-63	IM65X18AIJ	INL	30-58	IM6312MJN	INL	59-17
HBC4062AK	SGAI	86-109	HEF4505BP	MULB	21-93	HM4864-3	HITJ	43-68	IM65X18AMD	INL	30-59	IM6318IDG	INL	62-13
HBF4006AE	SGAI	76-83		PHIN		HM6118LP-2	HITJ	37-4	IM65X18AMF	INL	30-60	IM6318JG	INL	62-14
HBF4006AF	SGAI	81-18	HEF4517BD	MULB	86-14	HM6118LP-3	HITJ	37-10	IM65X18AMJ	INL	30-66	IM6318MDG	INL	62-15
HBF4014AE	SGAI	81-19		PHIN		HM6118LP-4	HITJ	37-5	IM65X18CJ	INL	30-72	IM6318MJG	INL	62-16
HBF4014AF	SGAI	75-47	HEF4517BP	MULB	86-15	HM6118P-2	HITJ	37-7	IM65X18ID	INL	30-66	IM6324MJG	INL	63-52
HBF4014AF	SGAI	75-48		PHIN		HM6118P-3	HITJ	37-11	IM65X18IJ	INL	30-68	IM6504IDN	INL	69-8
HBF4015AE	SGAI	81-20	HEF4557BD	MULB	85-106	HM6118P-4	HITJ	37-11	IM65X18MF	INL	30-69	IM6504IPN	INL	39-9
HBF4021AE	SGAI	81-21		PHIN		HM6147LP	HITJ	39-28	IM65X18MJ	INL	30-70	IM6504MDN	INL	39-10
HBF4021AF	SGAI	85-78	HEF4557BP	MULB	85-107	HM6147LP-3	HITJ	39-38	IM2114-2CJN	INL	35-57	IM6504MFD	INL	39-11
HBF4031AE	SGAI	85-79		PHIN		HM6147LP-4	HITJ	39-29	IM2114-2CPN	INL	35-58	IM6504MJN	INL	39-13
HBF4031AF	SGAI	78-74	HEF4720B	VALG	24-48	HM6148LP	HITJ	39-39	IM2114-3CPN	INL	35-59	IM6508IDE	INL	30-9
HBF4034AD	SGAI	78-75	HEF4720B	MULB	24-25	HM6148LP-6	HITJ	33-17	IM2114-L2CJN	INL	35-60	IM6512A-IDN	INL	22-12
HBF4034AE	SGAI	67-83		PHIN		HM6148LP-3	HITJ	32-95	IM2114-L2MJN	INL	35-60	IM6512A-IDN	INL	22-13
HBF4035AE	SGAI	67-84	HEF4720BP	MULB	24-34	HM6148P-4	HITJ	32-94	IM2114-L3CJN	INL	35-80	IM6512A-IJN	INL	22-14
HBF4035AF	SGAI	18-84		PHIN		HM10414	HITJ	22-81	IM2114-L3MJN	INL	35-81	IM6512A-MDN	INL	22-15
HBF4036AD	SGAI	18-85	HEF4720BP	MULB	24-35	HM10414-1	HITJ	22-76	IM2114-L3MJN	INL	35-102	IM6512A-MFN	INL	22-16
HBF4036AE	SGAI	18-86		PHIN		HM10422	HITJ	24-78	IM2114-LM-JN	INL	35-103	IM6512A-MJN	INL	22-22
HBF4039AD	SGAI	18-87	HEF4720P	VALG	24-44	HM10470	HITJ	38-93	IM2114-LCJN	INL	35-104	IM6512CJN	INL	22-17
HBF4042AE	SGAI	67-66	HEF4720VP	MULB	24-42	HM10470-1	HITJ	38-92	IM2114CPN	INL	35-105	IM6512IDN	INL	22-18
HBF4042AF	SGAI	67-67		PHIN		HM46810P	HITJ	22-63	IM2114L2CPN	INL	35-61	IM6512IUN	INL	22-19
HBF4062AE	SGAI	86-110	HEF4721B	VALG	25-82	HM46810P	HITJ	22-64	IM2114L2MJN/883B	INL	35-62	IM6512MDN	INL	22-20
HCC4006BD	SGAI	77-22	HEF4721B	MULB	25-83	HM100422	HITJ	24-79	IM2114L3CPN	INL	35-82	IM6512MFN	INL	22-21
HCC4006BF	SGAI	77-23	HEF4731BD	MULB	86-36	HM435101-1	HITJ	29-109	IM2114L3MJN/883B	INL	35-83	IM6514CJN	INL	32-96
HCC4006BK	SGAI	77-24		PHIN		HM435101P	HITJ	25-69		INL		IM6514CPN	INL	32-97
HCC4014BD	SGAI	81-86	HEF4731BP	MULB	86-37	HM435101P-1	HITJ	25-53	IM2114LCPN	INL	35-106	IM6514IDN	INL	32-98
HCC4014BF	SGAI	81-87		PHIN		HM435101VP	HITJ	25-70	IM2114LMJN/883B	INL	35-107	IM6514IUN	INL	32-99
HCC4014BK	SGAI	81-88	HEF4731VD	MULB	86-38	HM472114-3	HITJ	25-71		INL		IM6514IPN	INL	32-100
HCC4015BD	SGAI	75-83		PHIN		HM472114-4	HITJ	34-26	IM4116-2CDE	INL	22-24	IM6514MDN	INL	32-101
HCC4015BF	SGAI	75-84	HEF4731VP	MULB	86-39	HM472114P-3	HITJ	34-98	IM4116-2CJE	INL	22-25	IM6514MFD	INL	32-102
HCC4015BK	SGAI	75-85		PHIN		HM472114P-4	HITJ	34-27	IM4116-2CPE	INL	22-26	IM6514MJN	INL	32-103
HCC4021BD	SGAI	80-89	HEF4736B	VALG	30-30	HN25044	HITJ	34-99	IM4116-3CDE	INL	22-27	IM6518-1ID	INL	29-87
HCC4021BF	SGAI	80-90	HEF4736P	VALG	30-31	HN25045	HITJ	55-11	IM4116-3CDE	INL	22-28	IM6518-1IJ	INL	29-88
HCC4021BK	SGAI	80-91	HEF40174B	VALG	77-70	HN25048	HITJ	55-12	IM4116-3CPE	INL	22-29	IM6518-1MD	INL	29-89
HCC4031BD	SGAI	85-99	HEF40174BD	PHIN	77-71	HN25085	HITJ	59-72	IM4116-4CDE	INL	22-30	IM6518-1MF	INL	29-90
HCC4031BF	SGAI	85-100	HEF40174BP	PHIN	77-72	HN25088	HITJ	59-73	IM4116-4CJE	INL	22-31	IM6518-1MJ	INL	29-91
HCC4031BK	SGAI	85-101	HEF40174P	VALG	77-72	HN25088	HITJ	57-61	IM4116-4CPE	INL	22-32	IM6518A-1ID	INL	29-47
HCC4034BD	SGAI	69-63	HEF40175B	VALG	69-70	HN25089	HITJ	57-62	IM5200CJG	INL	89-87	IM6518A-1IJ	INL	29-48
HCC4035BD	SGAI	69-64	HEF40175B	PHIN	70-48	HN46332P	HITJ	62-82	IM5600CDE	INL	45-1	IM6518A-1MD	INL	29-49
HCC4035BF	SGAI	69-65	HEF40175BP	PHIN	70-49	HN46332P-2	HITJ	63-46	IM5600CFE	INL	45-2	IM6518A-1MF	INL	29-50
HCC4035BK	SGAI	68-52	HEF40194B	VALG	67-70	HN46532P	HITJ	62-85	IM5600CJE	INL	45-3	IM6518A-1MS	INL	29-51
HCC4076BF	SGAI	68-53	HEF40194BD	MULB	70-50	HN46532P-2	HITJ	62-94	IM5600CPE	INL	45-4	IM6518AID	INL	29-52
HCC4094BD	SGAI	82-61		PHIN		HN46532P-3	HITJ	62-90	IM5600MDE	INL	45-5	IM6518AIJ	INL	29-57
HCC4094BK	SGAI	82-62	HEF40194BP	MULB	70-51	HN46830P	HITJ	62-93	IM5600MFE	INL	45-6	IM6518AMF	INL	29-59
HCF4006BF	SGAI	77-26	HEF40195B	VALG	68-94	HN46830P	HITJ	58-85	IM5600MJE	INL	45-7	IM6518AMJ	INL	29-60

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
IM6653MJG	◆INL	55-21	M5L2708K	◆MITJ	55-36	M8118-3MD	◆EMM	36-80	JANM38510/02801CCB	none	67-96	JANM38510/20301CEC	MMI	47-15
IM6654AIDG	◆INL	53-36	M5L2708K65	◆MITJ	55-37	M8118-5MD	◆EMM	36-88	none	67-96	none	none	none	47-16
IM6654AIDG	◆INL	53-37	M5L2708S	◆MITJ	58-64	M36000-4B1	◆SGAI	63-55	JANM38510/02801CDA	none	67-97	JANM38510/20301CFA	none	47-17
IM6654IDG	◆INL	53-38	M5L2708S-65	◆MITJ	58-81	M36000-4D1	◆SGAI	63-56	none	67-98	none	none	none	47-18
IM6654IJG	◆INL	53-39	M5L2716K	◆MITJ	60-3	M36000-4F1	◆SGAI	63-57	JANM38510/02801CDB	none	67-98	JANM38510/20301CFB	none	47-19
IM6654MDG	◆INL	53-40	M5L2716K-65	◆MITJ	60-4	M36000-5B1	◆SGAI	63-60	none	76-74	none	none	none	47-20
IM6654MJG	◆INL	53-41	M5L2732K	◆MITJ	63-47	M36000-5D1	◆SGAI	63-61	JANM38510/05701BCA	none	76-74	JANM38510/20301CFC	MMI	47-21
IM7027-1CJE	◆INL	37-47	M5L2732K-P-1	◆MITJ	62-70	M36000-5F1	◆SGAI	63-62	none	69-48	none	none	none	47-22
IM7027-2CJE	◆INL	37-58	M5L51011P	◆MITJ	25-59	JANM38510/00901BAA	none	69-48	JANM38510/05701BCB	none	76-75	JANM38510/20302BEA	SIC	47-23
IM7027-3CJE	◆INL	37-87	M5T4044P-20	◆MITJ	39-74	MOTA	69-48	69-48	JANM38510/05701BCC	none	76-76	JANM38510/20302BEB	SIC	47-24
IM7027-4CJE	◆INL	38-11	M5T4044P-30	◆MITJ	40-6	JANM38510/00901BAB	none	69-49	JANM38510/05701BCA	none	76-77	JANM38510/20302BEC	SIC	47-25
IM7114CPN	◆INL	32-91	M5T4044P-45	◆MITJ	40-36	MOTA	69-49	69-49	JANM38510/00901BCA	none	76-77	JANM38510/20302BEC	MMI	47-26
IM7114L2CJN	◆INL	32-87	M5T4044S-20	◆MITJ	39-75	JANM38510/00901BBA	none	69-50	JANM38510/05701CCA	none	76-78	JANM38510/20302BEC	MMI	47-27
IM7114L3CJN	◆INL	32-89	M5T4044S-30	◆MITJ	40-7	MOTA	69-50	69-50	JANM38510/00901BCB	none	76-79	JANM38510/20302BFC	MMI	47-28
IM7114L4CJN	◆INL	32-92	M5T4044S-45	◆MITJ	40-37	JANM38510/00901BCB	none	69-51	JANM38510/05701CCB	none	76-79	JANM38510/20302CEA	SIC	47-29
IM7141-2CJN	◆INL	38-78	M74LS91P	◆MITJ	83-79	MOTA	69-51	69-51	JANM38510/05701CCC	none	76-79	JANM38510/20302CEB	SIC	47-30
IM7141-2MJN	◆INL	38-79	M74LS95BP	◆MITJ	73-91	JANM38510/00901BDA	none	69-52	JANM38510/05702BEB	none	80-94	JANM38510/20302CEC	SIC	47-31
IM7141-2MJN/B	◆INL	38-80	M74LS96P	◆MITJ	76-21	none	69-52	69-52	JANM38510/05702BFA	none	80-95	JANM38510/20302CEC	MMI	47-32
IM7141-3CJN	◆INL	38-83	M74LS164P	◆MITJ	80-26	JANM38510/00901BDB	none	69-53	JANM38510/05702CBA	none	80-96	JANM38510/20302CFB	MMI	47-33
IM7141-3MJN	◆INL	38-84	M74LS170P	◆MITJ	18-50	none	69-53	69-53	JANM38510/05702CBB	none	80-96	JANM38510/20302CFC	MMI	47-34
IM7141-3MJN/B	◆INL	38-85	M74LS173P	◆MITJ	72-63	JANM38510/00901CAA	none	69-54	JANM38510/05702CBA	none	80-96	JANM38510/20302CFB	MMI	47-35
IM7141CJN	◆INL	38-88	M74LS175P	◆MITJ	78-22	JANM38510/00901CAB	none	69-55	JANM38510/05702CBB	none	80-97	JANM38510/20302CFC	MMI	47-36
IM7141L2CJN	◆INL	38-81	M74LS174P	◆MITJ	74-12	MOTA	69-55	69-55	JANM38510/05702CBA	none	80-97	JANM38510/20401BEA	SIC	50-49
IM7141L2CPN	◆INL	38-82	M74LS194AP	◆MITJ	73-92	JANM38510/00901CCA	none	69-56	JANM38510/05702CFA	none	80-97	JANM38510/20401BEB	SIC	50-50
IM7141L3CJN	◆INL	38-86	M74LS195AP	◆MITJ	73-93	MOTA	69-56	69-56	JANM38510/05703BEA	SSS	75-30	JANM38510/20401BEB	SIC	50-51
IM7141L3CPN	◆INL	38-87	M74LS273P	◆MITJ	79-94	JANM38510/00901CCB	none	69-57	JANM38510/05703BEB	SSS	75-31	JANM38510/20401BEC	MMI	50-52
IM7141L4CJN	◆INL	38-89	M74LS295AP	◆MITJ	73-102	MOTA	69-57	69-58	JANM38510/00901CDA	none	75-32	JANM38510/20401BFC	MMI	50-53
IM7141L4CPN	◆INL	38-90	M74LS299P	◆MITJ	79-95	JANM38510/00901CDB	none	69-59	JANM38510/05703BEB	SSS	75-32	JANM38510/20401CEA	SIC	50-54
IM7141L4CJN/B	◆INL	38-91	M74LS323P	◆MITJ	80-27	none	69-59	69-59	JANM38510/05703CBA	SSS	75-33	JANM38510/20401CEB	SIC	50-55
ITTA4027-2N	◆ITT	37-60	M74LS374P	◆MITJ	80-28	JANM38510/00901CDB	none	69-59	JANM38510/05703CBB	SSS	75-34	JANM38510/20401CEC	MMI	50-56
ITTA4027-3D	◆ITT	37-60	M74LS377P	◆MITJ	79-96	none	69-59	69-59	JANM38510/05703CBA	SSS	75-34	JANM38510/20401CEC	MMI	50-57
ITTA4027-4D	◆ITT	37-60	M74LS395P	◆MITJ	72-65	JANM38510/00902BEA	RC	76-6	JANM38510/05703CBB	SSS	75-34	JANM38510/20401CEB	SIC	50-58
ITTA4027-5D	◆ITT	37-88	M74LS630P	◆MITJ	18-51	MOTA	76-6	76-6	JANM38510/05703CBA	SSS	75-34	JANM38510/20401CEC	MMI	50-59
ITTA4027-6D	◆ITT	37-89	M74LS670P	◆MITJ	75-93	JANM38510/00902BEB	RC	76-7	JANM38510/05703CBB	SSS	75-35	JANM38510/20401CEC	MMI	50-60
ITTA4027-7D	◆ITT	38-12	M142B1	◆SGAI	86-48	MOTA	76-7	76-7	JANM38510/05703CBA	SSS	75-35	JANM38510/20401CEC	MMI	50-61
ITTA4027-8D	◆ITT	38-13	M142D1	◆SGAI	86-49	JANM38510/00902BFA	RC	76-8	JANM38510/05703CBB	SSS	75-36	JANM38510/20401CFC	MMI	50-62
ITTA4027-9D	◆ITT	38-53	M200M1AA	◆SGAI	65-7	MOTA	76-8	76-8	JANM38510/05703CBA	SSS	75-36	JANM38510/20402BEA	SIC	50-63
ITTA4116-2D	◆ITT	42-9	M203	◆ICC	78-42	JANM38510/00902BFB	RC	76-9	JANM38510/05703CBB	SSS	75-37	JANM38510/20402BEB	SIC	50-64
ITTA4116-3D	◆ITT	42-10	M204	◆ICC	68-68	JANM38510/00902CEA	RC	76-10	JANM38510/05704BEA	SSS	80-98	JANM38510/20402BEC	MMI	50-65
ITTA4116-4D	◆ITT	42-44	M206	◆ICC	77-38	MOTA	76-10	76-10	JANM38510/05704BEB	SSS	80-99	JANM38510/20402BEC	MMI	50-66
ITTA4116-5D	◆ITT	42-45	M207	◆ICC	77-37	JANM38510/00902CEB	RC	76-11	JANM38510/05704BEB	SSS	80-99	JANM38510/20402BFC	MMI	50-67
ITTA4116-6D	◆ITT	42-83	M250D1	◆SGAI	90-25	MOTA	76-11	76-11	JANM38510/05704BEB	SSS	80-100	JANM38510/20402CEA	SIC	50-68
ITTA4116-7D	◆ITT	42-84	M252B1AA	◆SGAI	90-29	JANM38510/00902CFA	RC	76-12	JANM38510/05704BEB	SSS	80-101	JANM38510/20402CEB	SIC	50-69
ITTA4116-8D	◆ITT	53-54	M252B1XX	◆SGAI	90-27	MOTA	76-12	76-12	JANM38510/05704BEB	SSS	80-100	JANM38510/20402CEC	MMI	50-70
ITTA4116-9D	◆ITT	58-87	M252D1AA	◆SGAI	90-30	JANM38510/00902CFB	RC	76-13	JANM38510/05704BEB	SSS	80-100	JANM38510/20402CEA	SIC	50-71
ITTA4116-10D	◆ITT	62-19	M252D1XX	◆SGAI	90-28	MOTA	76-13	76-13	JANM38510/05704BEB	SSS	80-100	JANM38510/20402CEB	SIC	50-72
ITTA4116-11D	◆ITT	37-40	M253B1AA	◆SGAI	90-23	JANM38510/00903BCA	RC	82-81	JANM38510/05704BFA	RC	80-101	JANM38510/20402CEB	SIC	50-73
ITTA4116-12D	◆ITT	37-61	M253B1XX	◆SGAI	90-21	JANM38510/00903BEB	RC	82-81	JANM38510/05704BFA	RC	80-101	JANM38510/20402CEC	MMI	50-74
ITTA4116-13D	◆ITT	32-5	M253D1AA	◆SGAI	90-24	JANM38510/00903CBB	SSS	82-82	JANM38510/05704BFA	RC	80-101	JANM38510/20402CEC	MMI	50-75
ITTA4116-14D	◆ITT	39-73	M253D1XX	◆SGAI	90-22	JANM38510/00903CBB	SSS	82-82	JANM38510/05704BFA	RC	80-101	JANM38510/20402CFC	MMI	50-76
ITTA4116-15D	◆ITT	33-60	M254B1XX	◆SGAI	90-26	JANM38510/00903CCA	RC	82-83	JANM38510/05704BFA	RC	80-101	JANM38510/20402CFC	MMI	50-77
ITTA4116-16D	◆ITT	42-11	M330AB1	◆SGAI	32-78	JANM38510/00903CCB	SSS	82-83	JANM38510/05704BFA	RC	80-101	JANM38510/20402CFC	MMI	50-78
ITTA4116-17D	◆ITT	63-59	M1406	◆AMD	86-61	JANM38510/00904BEA	RC	82-84	JANM38510/05704BFA	RC	80-101	JANM38510/20402CFC	MMI	50-79
ITTA4116-18D	◆ITT	66-80	M1407	◆AMD	86-62	JANM38510/00904BEB	RC	82-84	JANM38510/05704BFA	RC	80-101	JANM38510/20402CFC	MMI	50-80
ITTA4116-19D	◆ITT	66-82	M1506	◆AMD	86-63	JANM38510/00904BEB	RC	82-84	JANM38510/05704BFA	RC	80-101	JANM38510/20402CFC	MMI	50-81
ITTA4116-20D	◆ITT	33-61	M1507	◆AMD	86-64	JANM38510/00904BEB	RC	82-84	JANM38510/05704BFA	RC	80-101	JANM38510/20402CFC	MMI	50-82
ITTA4116-21D	◆ITT	33-62	M2102AB1	◆SGAI	31-68	JANM38510/00904BEB	RC	82-84	JANM38510/05704BFA	RC	80-101	JANM38510/20402CFC	MMI	50-83
ITTA4116-22D	◆ITT	33-63	M2102AB1-2	◆SGAI	31-27	MOTA	81-71	81-71	JANM38510/05705BFA	RC	85-74	JANM38510/20601BVB	SIC	54-106
ITTA4116-23D	◆ITT	34-28	M2102AB1-4	◆SGAI	32-8	JANM38510/00904BFA	RC	81-72	JANM38510/05705BFA	RC	85-74	JANM38510/20601CVB	SIC	54-107
ITTA4116-24D	◆ITT	34-29	M2102AB1-6	◆SGAI	32-64	MOTA	81-73	81-73	JANM38510/05705CFA	RC	85-75	JANM38510/20602BVB	SIC	55-1
ITTA4116-25D	◆ITT	34-30	M2102AD1	◆SGAI	31-69	JANM38510/00904BFB	RC	81-74	JANM38510/05705CFA	RC	85-75	JANM38510/20602BVB	SIC	55-1
ITTA4116-26D	◆ITT	36-1	M2102AD1-2	◆SGAI	31-28	MOTA	81-74	81-74	JANM38510/07601BEB	AMD	74-31	JANM38510/20602CVB	SIC	55-2
ITTA4116-27D	◆ITT	36-2	M2102AD1-4	◆SGAI	32-9	JANM38510/00904CEA	AMD	74-31	JANM38510/07601BEB	AMD	74-31	JANM38510/20602CVB	SIC	55-2
ITTA4116-28D	◆ITT	36-3	M2102AD1-6	◆SGAI	32-65	MOTA	81-75	81-75	JANM38510/07601BFB	AMD	74-32	JANM38510/20901BVB	SIC	59-99
ITTA4116-29D	◆ITT	36-4	M2102AF1	◆SGAI	31-70	JANM38510/00904CEB	AMD	74-32	JANM38510/07601BFB	AMD	74-32	JANM38510/20901		

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JANM38510/30601BFA	SIC	70-18	JANM38510/30607BFA	SIC	70-34	MC140148AL	MOTA	81-45	MCM68A10L	MOTA	22-81	MCM4116C25	MOTA	43-24
MOTA	SIC		MC140148BCL	MOTA		MC140148BCL	MOTA	81-46	MCM68A10P	MOTA	22-82	MCM4116C30	MOTA	43-32
JANM38510/30601BFB	AMD	70-19	JANM38510/30607BFB	SIC	70-35	MC140148BCP	MOTA	81-47	MCM68A30AC	MOTA	56-66	MCM4116L15	MOTA	43-10
AMD	MOTA		SIC	TII		MC140158AL	MOTA	75-62	MCM68A30AP	MOTA	56-67	MCM4116L20	MOTA	43-17
SIC	TII		JANM38510/30607CEA	SIC	70-36	MC140158BCL	MOTA	75-63	MCM68A308C	MOTA	56-68	MCM4116L25	MOTA	43-25
JANM38510/30601CEA	SIC	70-20	JANM38510/30607CEB	SIC	70-37	MC140158BCP	MOTA	75-64	MCM68A308L	MOTA	56-69	MCM4116L30	MOTA	43-33
MOTA	SIC		SIC	TII		MC140218AL	MOTA	81-48	MCM68A308P	MOTA	56-70	MCM4364L	MOTA	20-106
AMD	MOTA		JANM38510/30607CFA	SIC	70-38	MC140218BCL	MOTA	81-49	MCM68A316AC	MOTA	60-74	MCM4516C	MOTA	41-106
SIC	TII		SIC	TII		MC140218BCP	MOTA	81-50	MCM68A316AP	MOTA	60-75	MCM4517C	MOTA	41-107
JANM38510/30601CFA	SIC	70-22	JANM38510/30607CFB	SIC	70-39	MC140348AL	MOTA	78-84	MCM68A316EC	MOTA	60-76	MCM4517-10C	MOTA	41-99
MOTA	SIC		SIC	TII		MC140348BCL	MOTA	78-85	MCM68A316EP	MOTA	60-77	MCM4517-10C	MOTA	41-100
JANM38510/30601CFB	AMD	70-23	M53284P	MITJ	18-52	MC140358AL	MOTA	78-86	MCM68A332C	MOTA	62-83	MCM4517-12C	MOTA	41-108
AMD	MOTA		M53289P	MITJ	21-19	MC140358BCL	MOTA	68-13	MCM68A332P	MOTA	62-84	MCM4517-12C	MOTA	41-109
SIC	TII		M53291P	MITJ	83-104	MC140358BCP	MOTA	68-14	MCM68A364C	MOTA	63-84	MCM4517-15P	MOTA	42-21
JANM38510/30602BEA	SIC	70-68	M53295P	MITJ	70-40	MC140768AL	MOTA	68-15	MCM68A364L	MOTA	63-85	MCM5003AL	MOTA	45-51
MOTA	SIC		M53296P	MITJ	76-22	MC140768BCL	MOTA	68-34	MCM68A364P	MOTA	63-86	MCM5003L	MOTA	45-52
JANM38510/30602BEB	AMD	70-69	M53364P	MITJ	79-38	MC140768BCP	MOTA	68-35	MCM68A708C	MOTA	58-45	MCM5004AL	MOTA	45-53
AMD	MOTA		M53365P	MITJ	79-7	MC140948AL	MOTA	68-36	MCM68A708L	MOTA	58-46	MCM5004L	MOTA	45-54
SIC	TII		M53366P	MITJ	82-25	MC140948BCL	MOTA	68-37	MCM68A764C	MOTA	63-90	MCM5004AL	MOTA	45-55
JANM38510/30602BFA	SIC	70-70	M53370P	MITJ	18-53	MC140948BCP	MOTA	68-38	MCM68A764L	MOTA	63-91	MCM5004L	MOTA	45-56
MOTA	SIC		M53374P	MITJ	77-81	MC141748AL	MOTA	68-39	MCM68B10L	MOTA	22-54	MCM5303AL	MOTA	45-57
JANM38510/30602BFB	AMD	70-71	M53375P	MITJ	71-32	MC141748BCL	MOTA	68-40	MCM68B10P	MOTA	22-55	MCM5303L	MOTA	45-58
AMD	MOTA		M53398P	MITJ	79-39	MC141748BCP	MOTA	68-41	MCM68B30AC	MOTA	56-60	MCM5304AL	MOTA	45-59
SIC	TII		M53399P	MITJ	79-40	MC141758AL	MOTA	68-42	MCM68B30AP	MOTA	56-61	MCM5304L	MOTA	45-60
JANM38510/30602CEA	SIC	71-1	M53478P	MITJ	67-40	MC141758BCL	MOTA	68-43	MCM68B308C	MOTA	56-62	MCM5304L	MOTA	45-61
MOTA	SIC		M54700K	MITJ	45-84	MC141758BCP	MOTA	68-44	MCM68B308L	MOTA	56-63	MCM5304L	MOTA	45-62
JANM38510/30602CEB	AMD	71-2	M54700P	MITJ	45-85	MC141948AL	MOTA	68-45	MCM68B308P	MOTA	56-64	MCM5304L	MOTA	45-63
AMD	MOTA		M54700S	MITJ	48-80	MC141948BCL	MOTA	68-46	MCM68B364C	MOTA	63-72	MCM5304L	MOTA	45-64
SIC	TII		M54730K	MITJ	44-16	MC141948BCP	MOTA	68-47	MCM68B364L	MOTA	63-73	MCM5304L	MOTA	45-65
JANM38510/30602CFA	SIC	71-3	M54730P	MITJ	44-17	MC145178AL	MOTA	68-48	MCM68B364P	MOTA	63-74	MCM5304L	MOTA	45-66
MOTA	SIC		M54730S	MITJ	45-15	MC145178BCL	MOTA	68-49	MCM68L764-35L	MOTA	63-92	MCM5304L	MOTA	45-67
JANM38510/30602CFB	AMD	71-4	M58333-XXXX	MITJ	62-81	MC145178BCP	MOTA	86-7	MCM2114-20L	MOTA	33-71	MCM518P-25	MOTA	29-32
AMD	MOTA		M58334-XXXX	MITJ	63-48	MC145578AL	MOTA	86-8	MCM2114-20P	MOTA	33-72	MCM518P-46	MOTA	29-37
SIC	TII		M58725P	MITJ	37-12	MC145578BCL	MOTA	86-9	MCM2114-25L	MOTA	33-108	MCM518P-46	MOTA	29-41
JANM38510/30603BCA	SIC	70-24	M58725P	MITJ	37-8	MC145578BCP	MOTA	86-10	MCM2114-25P	MOTA	33-109	MCM560L#1	MOTA	56-80
MOTA	SIC		M58725S	MITJ	37-13	MC145628AL	MOTA	86-11	MCM2114-30L	MOTA	34-39	MCM560L#2	MOTA	59-35
JANM38510/30603BCB	FSC	70-25	M58725S-15	MITJ	36-10	MC145628BCL	MOTA	86-70	MCM2114-30P	MOTA	34-40	MCM560L#3	MOTA	56-81
FSC	TII		M58725S-12	MITJ	43-49	MC145628BCP	MOTA	86-71	MCM2114-45L	MOTA	34-40	MCM560L#4	MOTA	59-36
JANM38510/30603BDA	SIC	70-26	M58725S-15	MITJ	43-49	MC145628BCP	MOTA	86-72	MCM2114-45P	MOTA	34-106	MCM561L#1	MOTA	66-50
MOTA	SIC		M58784S-15	MITJ	43-64	MC145628BCP	MOTA	86-73	MCM2114C20	MOTA	33-73	MCM561L#2	MOTA	66-12
JANM38510/30603BDB	SIC	70-27	M58981P	MITJ	33-1	MC145808AL	MOTA	86-74	MCM2114C25	MOTA	33-110	MCM561L#3	MOTA	66-69
MOTA	SIC		M58981S-45	MITJ	33-2	MC145808BCL	MOTA	86-75	MCM2114C30	MOTA	34-41	MCM561L#4	MOTA	66-26
JANM38510/30603CCA	SIC	70-28	MB7071E	FMI	24-81	MC145808BCP	MOTA	86-76	MCM2114C35	MOTA	34-41	MCM561L#5	MOTA	66-36
MOTA	SIC		MB7071H	FMI	24-80	MC29100L	MOTA	86-77	MCM2114P20	MOTA	34-108	MCM561L#6	MOTA	66-2
JANM38510/30603CCB	SIC	70-29	MB7071I	FMI	24-82	MC29100L	MOTA	86-78	MCM2114P25	MOTA	34-109	MCM561L#7	MOTA	66-51
MOTA	SIC		MB7072E	FMI	24-82	MC29101L	MOTA	86-79	MCM2114P30	MOTA	34-110	MCM561L#8	MOTA	66-13
JANM38510/30603CDB	SIC	70-30	MB7072E	FMI	24-82	MC29101L	MOTA	86-80	MCM2114P35	MOTA	34-110	MCM561L#9	MOTA	66-70
MOTA	SIC		MB8114EL	FMI	33-66	MC29101L	MOTA	86-81	MCM2114P40	MOTA	34-42	MCM561L#10	MOTA	66-27
JANM38510/30603CDB	SIC	70-31	MB8116E	FMI	42-52	MC29101L	MOTA	86-82	MCM2114P45	MOTA	34-110	MCM561L#11	MOTA	66-37
MOTA	SIC		MB8132EH	FMI	42-18	MC29101L	MOTA	86-83	MCM2114P50	MOTA	35-1	MCM561L#12	MOTA	66-3
JANM38510/30604BEA	SIC	76-44	MB8132EL	FMI	43-37	MC29101L	MOTA	86-84	MCM2115AC-45	MOTA	30-97	MCM561L#13	MOTA	66-52
MOTA	SIC		MB8164E	FMI	43-38	MC29101L	MOTA	86-85	MCM2115AC-55	MOTA	30-99	MCM561L#14	MOTA	66-14
JANM38510/30604BEB	SIC	76-45	MB8216E	FMI	41-105	MC29101L	MOTA	86-86	MCM2115AC-70	MOTA	30-109	MCM561L#15	MOTA	66-71
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-87	MCM2115AL	MOTA	30-87	MCM561L#16	MOTA	66-28
JANM38510/30604BFA	SIC	76-46	MB8216N	FMI	42-19	MC29101L	MOTA	86-88	MCM2125AC-45	MOTA	30-98	MCM561L#17	MOTA	66-53
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-89	MCM2125AC-55	MOTA	30-98	MCM561L#18	MOTA	66-15
JANM38510/30604BFB	SIC	76-47	MB8216N	FMI	42-19	MC29101L	MOTA	86-90	MCM2125AC-70	MOTA	30-100	MCM561L#19	MOTA	66-29
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-91	MCM2125AC-70	MOTA	30-110	MCM561L#20	MOTA	66-39
JANM38510/30604CEA	SIC	76-48	MB8216N	FMI	42-19	MC29101L	MOTA	86-92	MCM2125AC-70	MOTA	30-110	MCM561L#21	MOTA	66-5
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-93	MCM2125AC-70	MOTA	30-110	MCM561L#22	MOTA	66-26
JANM38510/30604CEB	SIC	76-49	MB8216N	FMI	42-19	MC29101L	MOTA	86-94	MCM2125AC-70	MOTA	30-110	MCM561L#23	MOTA	66-57
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-95	MCM2125AC-70	MOTA	30-110	MCM561L#24	MOTA	66-27
JANM38510/30604CFA	SIC	76-50	MB8216N	FMI	42-19	MC29101L	MOTA	86-96	MCM2125AC-70	MOTA	30-110	MCM561L#25	MOTA	66-37
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-97	MCM2125AC-70	MOTA	30-110	MCM561L#26	MOTA	66-3
JANM38510/30604CFB	SIC	76-51	MB8216N	FMI	42-19	MC29101L	MOTA	86-98	MCM2125AC-70	MOTA	30-110	MCM561L#27	MOTA	66-52
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-99	MCM2125AC-70	MOTA	30-110	MCM561L#28	MOTA	66-16
JANM38510/30605BAB	AMD	82-85	MB8216N	FMI	42-19	MC29101L	MOTA	86-100	MCM2125AC-70	MOTA	30-110	MCM561L#29	MOTA	66-54
AMD	MOTA		MB8216N	FMI	42-19	MC29101L	MOTA	86-101	MCM2125AC-70	MOTA	30-110	MCM561L#30	MOTA	66-7
JANM38510/30605BAC	FSC	82-86	MB8216N	FMI	42-19	MC29101L	MOTA	86-102	MCM2125AC-70	MOTA	30-110	MCM561L#31	MOTA	66-30
FSC	MOTA		MB8216N	FMI	42-19	MC29101L	MOTA	86-103	MCM2125AC-70	MOTA	30-110	MCM561L#32	MOTA	66-35
JANM38510/30605BCA	SIC	82-87	MB8216N	FMI	42-19	MC29101L	MOTA	86-104	MCM2125AC-70	MOTA	30-110	MCM561L#33	MOTA	66-68
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-105	MCM2125AC-70	MOTA	30-110	MCM561L#34	MOTA	66-3
JANM38510/30605BCB	SIC	82-88	MB8216N	FMI	42-19	MC29101L	MOTA	86-106	MCM2125AC-70	MOTA	30-110	MCM561L#35	MOTA	66-53
MOTA	SIC		MB8216N	FMI	42-19	MC29101L	MOTA	86-107	MCM2125AC-70	MOTA	30-110	MCM561L#36	MOTA	66-29
JANM38510/30605BDA	SIC	82-89	MB8216N	FMI	42-19	MC29101L	MOTA	86-108	MCM2125AC-70	MOTA				

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MCM6641-20P	*MOTA	39-83	MCM10546L	*MOTA	28-43	MD21SC14AE15		33-19	MK4808-5	*MOS	38-60	MM2316ED	*NSC	60-87
MCM6641-25C	*MOTA	39-103	MCM10547F	*MOTA	22-33				MK4809-3	*MOS	36-57	MM2316EN	*NSC	60-88
MCM6641-25JL	*MOTA	39-104	MCM10547L	*MOTA	22-34				MK4809-4	*MOS	36-59	MM2708Q	*NSC	58-71
MCM6641-25NL	*MOTA	39-105	MCM10548F	*MOTA	21-73	MD21SC14AE25	*MITC	33-20	MK4809-5	*MOS	36-61	MM2708Q-1	*NSC	58-51
MCM6641-30C	*MOTA	39-106	MCM10548L	*MOTA	21-74				MK4816-2	*MOS	36-97	MM2716Q-1	*NSC	61-105
MCM6641-30JL	*MOTA	40-12	MCM10549F	*MOTA	46-44	MD23SC16AE	*MITC	60-70	MK4816-3	*MOS	36-98	MM2716Q-2	*NSC	61-106
MCM6641-30L	*MOTA	40-13	MCM10549L	*MOTA	46-45	MD2114L2	*ITL	35-6	MK4816-4	*MOS	36-99	MM2716Q-3	*NSC	62-2
MCM6641-30NL	*MOTA	40-14	MCM10552F	*MOTA	22-74	MD2114L3	*ITL	32-90	MK4816-5	*MOS	36-100	MM2716QM	*NSC	62-3
MCM6641-30P	*MOTA	40-15	MCM10552L	*MOTA	22-75	MD2114L4	*ITL	32-90	MK4816J-4	*MOS	36-102	MM2758Q-A	*NSC	58-72
MCM6641-45C	*MOTA	40-42	MCM14505BAL	*MOTA	21-94	MD2115A	*ITL	30-101	MK4816N-3	*MOS	36-101	MM2758Q-B	*NSC	58-73
MCM6641-45JL	*MOTA	40-43	MCM14505BCL	*MOTA	21-95	MD2115AL	*ITL	31-1	MK4816N-4	*MOS	36-103	MM3200-2C	*STX	63-23
MCM6641-45NL	*MOTA	40-44	MCM14505BPL	*MOTA	21-96	MD2125A	*ITL	30-102	MK4816N-5	*MOS	36-104	MM3200-3C	*STX	63-27
MCM6641-45P	*MOTA	40-45	MCM14524AL	*MOTA	46-22	MD2125AL	*ITL	31-2	MK34000J-3	*MOS	62-18	MM3200-C	*STX	63-19
MCM6664-15C	*MOTA	43-57	MCM14524CL	*MOTA	46-23	MD2147	*ITL	41-45	MK34000N-3	*MOS	60-78	MM4055D	*AMD	86-94
MCM6664-15L	*MOTA	43-58	MCM14524CP	*MOTA	46-24				MK34000P-3	*MOS	60-79	MM4056H	*AMD	87-37
MCM6664-20C	*MOTA	43-59	MCM14537AL	*MOTA	24-46	MD2708	*ITL	58-70	MK34027JN-3	*MOS	64-9	MM4057D	*AMD	87-49
MCM6664-20L	*MOTA	43-60	MCM14537CL	*MOTA	24-47	MD2716	*ITL	61-99	MK34027J-3	*MOS	64-10	MM4203Q	*NSC	48-97
MCM6665-15L	*MOTA	43-65	MCM14552AL	*MOTA	21-106	MD3636	*ITL	61-83	MK36000N-4	*MOS	63-75	MM4204Q	*NSC	53-51
MCM6665-20L	*MOTA	43-70	MCM14552CP	*MOTA	21-107	MD4330BD	*MITC	85-29	MK36000N-5	*MOS	63-76	MM4214J	*NSC	51-81
MCM6670P	*MOTA	65-33	MCM14552PL	*MOTA	21-108	MD4330BD	*MITC	85-26	MK36000P-4	*MOS	63-77	MM4220AEJ	*NSC	66-23
MCM6674L	*MOTA	65-34	MCM65308L	*MOTA	56-71	MD4330BE	*MITC	85-27	MK36000P-5	*MOS	63-80	MM4220DFJ	*NSC	90-18
MCM6674P	*MOTA	64-72	MCM65308P	*MOTA	56-72	MD4331BE	*MITC	85-28	MK37000J-4	*MOS	63-78	MM4221RQJ-#1	*NSC	66-31
MCM6810ACL1	*MOTA	22-47	MCM65317L	*MOTA	60-92	MD4332BD	*MITC	85-31	MK37000J-5	*MOS	63-81	MM4221RQJ-#2	*NSC	66-86
MCM6810ACL	*MOTA	22-48	MCM65317P	*MOTA	60-93	MD4332BD	*MITC	85-32	MK37000N-4	*MOS	63-79	MM4221RRJ	*NSC	66-1
MCM6810AL1	*MOTA	22-49	MCM66700C	*MOTA	65-42	MD4332BE	*MITC	85-33	MK37000N-5	*MOS	63-82	MM4221TMJ	*NSC	66-33
MCM6810AL	*MOTA	22-50	MCM66700P	*MOTA	65-43	MEM-1B	WLD	27-110	MK37000P-5	*MOS	63-83	MM4230B01J	*NSC	66-73
MCM6810AP1	*MOTA	22-51	MCM66710C	*MOTA	64-88	MEM-2	WLD	28-1	MKB4027F-84	*MOS	38-26	MM4230B0J	*NSC	66-76
MCM6810AP	*MOTA	22-52	MCM66710P	*MOTA	64-89	MEM-3	WLD	37-17	MKB4027J-83	*MOS	37-104	MM4230KP2J	*NSC	66-17
MCM6810B	*MOTA	22-53	MCM66714C	*MOTA	64-90	MEM-6	WLD	28-2	MKB4027J-84	*MOS	38-27	MM4230KPJ	*NSC	66-21
MCM6810B	*MOTA	22-54	MCM66714P	*MOTA	64-91	MEM-8	WLD	78-39	MKB4104E-85	*MOS	40-20	MM4231RP2J	*NSC	66-40
MCM6810C	*MOTA	22-55	MCM66720C	*MOTA	64-92	MK1002L	*AMD	86-76	MKB4104E-86	*MOS	40-29	MM4231RPJ	*NSC	66-45
MCM6810CL	*MOTA	22-56	MCM66720P	*MOTA	64-93	MK1002P	*AMD	86-77	MKB4104J-85	*MOS	40-21	MM4240AAJ	*NSC	65-51
MCM6810CP	*MOTA	22-57	MCM66730C	*MOTA	64-94	MK2147J-55	*MOS	39-23	MKB4104J-86	*MOS	40-30	MM4240ABUJ	*NSC	65-51
MCM6810P	*MOTA	22-58	MCM66730P	*MOTA	64-95	MK2147J-70	*MOS	39-24	MKB4104P-85	*MOS	40-22	MM4240ABUJ	*NSC	65-46
MCM6830AL	*MOTA	56-75	MCM66734C	*MOTA	64-96	MK2147J-85	*MOS	37-20	MKB4104P-86	*MOS	40-31	MM4240AEJ	*NSC	65-47
MCM6832C	*MOTA	61-3	MCM66734L	*MOTA	65-58	MK2147J-90	*MOS	39-25	MKB4116E-84	*MOS	42-91	MM4241ABLJ	*NSC	65-21
MCM6832P	*MOTA	61-4	MCM66740C	*MOTA	64-98	MK2147N-55	*MOS	37-18	MKB4116E-93	*MOS	42-55	MM4280J	*NSC	38-31
MCM7202DC	*MOTA	50-41	MCM66740P	*MOTA	64-99	MK2147N-85	*MOS	37-19	MKB4116F-84	*MOS	42-92	MM5055D	*AMD	86-95
MCM7202DM	*MOTA	50-42	MCM66750C	*MOTA	64-100	MK2148J-85	*MOS	33-24	MKB4116F-83	*MOS	42-56	MM5055H	*AMD	86-96
MCM7202DL	*MOTA	49-71	MCM66750P	*MOTA	64-101	MK2716J-5	*MOS	61-100	MKB4116J-83	*MOS	42-57	MM5056H	*AMD	87-38
MCM7202LDM	*MOTA	49-73	MCM66751C	*MOTA	64-102	MK2716J-6	*MOS	61-104	MKB4116J-84	*MOS	42-58	MM5057D	*AMD	87-50
MCM72621DC	*MOTA	50-42	MCM66751P	*MOTA	64-103	MK2716J-7	*MOS	62-7	MKB4116P-83	*MOS	42-59	MM5057N	*AMD	87-51
MCM72621DM	*MOTA	50-43	MCM66760C	*MOTA	64-104	MK2716J-8	*MOS	62-7	MKB4116P-84	*MOS	42-59	MM5203Q	*NSC	48-98
MCM72621DML	*MOTA	49-74	MCM66760P	*MOTA	64-105	MK2764J-8	*MOS	63-93	MKB4116P-84	*MOS	42-60	MM5204Q	*NSC	53-50
MCM72621DML	*MOTA	49-74	MCM66770C	*MOTA	64-106	MK4027J-1	*MOS	63-94	MKB36000P-80	*MOS	63-58	MM5204Q-1	*NSC	53-47
MCM72640D	*MOTA	52-93	MCM66770P	*MOTA	64-107	MK4027J-2	*MOS	37-49	MKB36000P-84	*MOS	63-63	MM5214J	*NSC	51-82
MCM72640DC	*MOTA	52-94	MCM66780C	*MOTA	64-108	MK4027J-3	*MOS	37-70	MM1-RAM	*CLI	33-25	MM5220AEJ	*NSC	66-24
MCM72640DM	*MOTA	53-5	MCM66780P	*MOTA	64-109	MK4027J-3	*MOS	37-101	MM54C89J	*NSC	21-38	MM5220AEN	*NSC	66-25
MCM72640L	*MOTA	52-24	MCM66790C	*MOTA	64-110	MK4027N-2	*MOS	37-50	MM54C200J	*NSC	24-19	MM5220DFJ	*NSC	90-19
MCM72640P	*MOTA	52-25	MCM66790P	*MOTA	65-1	MK4027N-2	*MOS	37-71	MM54C910J	*NSC	21-102	MM5220DFN	*NSC	90-20
MCM72641DC	*MOTA	52-26	MCM68308L	*MOTA	56-76	MK4027N-3	*MOS	37-102	MM54C920J	*NSC	25-27	MM5221RQJ-#1	*NSC	66-32
MCM72641DM	*MOTA	52-27	MCM68308P	*MOTA	56-77	MK4027P-1	*MOS	38-25	MM54C921J	*NSC	25-28	MM5221RQJ-#2	*NSC	66-87
MCM72641DML	*MOTA	52-28	MCM68316EL	*MOTA	60-94	MK4027P-2	*MOS	37-51	MM54C929J	*NSC	29-80	MM5221TMJ	*NSC	66-34
MCM72641DL	*MOTA	52-29	MCM68316EP	*MOTA	60-95	MK4027P-2	*MOS	37-72	MM54C930J	*NSC	29-81	MM5221TMN	*NSC	66-88
MCM72641P	*MOTA	52-27	MCM68317L	*MOTA	61-14	MK4027P-3	*MOS	37-103	MM54C938J	*NSC	21-51	MM5230B01J	*NSC	66-74
MCM72642D	*MOTA	54-82	MCM68317P	*MOTA	61-15	MK4104J-3	*MOS	39-84	MM74C89J	*NSC	21-39	MM5230B01N	*NSC	66-75
MCM72642DC	*MOTA	54-83	MCM68332L	*MOTA	62-91	MK4104J-4	*MOS	39-107	MM74C89N	*NSC	21-40	MM5230B0J	*NSC	66-77
MCM72642DM	*MOTA	55-3	MCM68332P	*MOTA	62-92	MK4104J-5	*MOS	40-16	MM74C200J	*NSC	24-20	MM5230B0N	*NSC	66-78
MCM72642L	*MOTA	54-30	MCM68708C	*MOTA	58-68	MK4104J-6	*MOS	40-27	MM74C200N	*NSC	24-21	MM5230J-#1	*NSC	48-14
MCM72643D	*MOTA	54-31	MCM68708L	*MOTA	58-69	MK4104J-33	*MOS	39-85	MM74C200N	*NSC	24-22	MM5230K2P2J	*NSC	66-19
MCM72643DC	*MOTA	54-32	MCM68764C	*MOTA	63-97	MK4104J-34	*MOS	39-108	MM74C910J	*NSC	21-104	MM5230K2P2N	*NSC	66-22
MCM72643DM	*MOTA	55-4	MCM82707L	*MOTA	63-98	MK4104J-35	*MOS	40-17	MM74C920J	*NSC	25-23	MM5230KPN	*NSC	48-15
MCM72643L	*MOTA	54-32	MCM82707P	*MOTA	58-110	MK4104N-1	*MOS	39-86	MM74C920J-3	*NSC	25-29	MM5230N	*NSC	48-16
MCM72643P	*MOTA	54-33	MCM82708L	*MOTA	58-12	MK4104N-5	*MOS	39-109	MM74C920N	*NSC	25-24	MM5230N-#1	*NSC	66-41
MCM72660L	*MOTA	57-20	MCM82708P	*MOTA	58-13	MK4104N-6	*MOS	40-18	MM74C921J	*NSC	25-25	MM5231RP2J	*NSC	66-42
MCM72660P	*MOTA	57-21	MCM93412DC	*MOTA	24-66	MK4104N-33	*MOS	40-28	MM74C921J-3	*NSC	25-30	MM5231RP2N	*NSC	66-42
MCM72661L	*MOTA	57-22	MCM93412FM	*MOTA	24-67	MK4104N-34	*MOS	39-87	MM74C921N	*NSC	25-26	MM5231RPN	*NSC	66-46
MCM72660DC	*MOTA	55-38	MCM93412PC	*MOTA	24-68	MK4104N-35	*MOS	39-110	MM74C921N-3	*NSC	25-31	MM5231RPN	*NSC	66-47
MCM72660DM	*MOTA	55-39	MCM93415DC	*MOTA	28-108	MK4116N-2	*MOS	40-19	MM74C929J	*NSC	29-69	MM5240AAJ	*NSC	65-52
MCM72660DCL	*MOTA	55-70	MCM93415DM	*MOTA	29-15	MK4116N-3	*MOS	42-22	MM74C929J-3	*NSC	29-104	MM5240ABUJ	*NSC	65-53
MCM72660DML	*MOTA	55-71	MCM93415P	*MOTA	29-16	MK4116N-4	*MOS	42-23	MM74C929N	*NSC	29-70	MM5240ABZ	*NSC	65-48
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TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MM52116FDWD	NSC	65-35	N74LS164F	PHIN	83-14	N74S208I	MULB	23-58	N82S100N	PHIN	(cont.)	N82S137F	PHIN	54-72
MM52116FDWN	NSC	65-36	N74LS164N	PHIN	83-15	N74S301B	MULB	23-41	N82S101I	PHIN	89-102	N82S137N	PHIN	54-73
MM52116FDXD	NSC	65-44	N74LS170B	MULB	18-54	N74S301F	PHIN	23-42	N82S101N	PHIN	89-103	N82S140F	PHIN	53-17
MM52116FDXN	NSC	65-45	N74LS170F	MULB	18-55	N74S301N	PHIN	23-43	N82S102I	PHIN	89-17	N82S140N	PHIN	53-18
MM52132ZD	NSC	62-86	N74LS170N	PHIN	18-25	N82LS10F	MULB	28-49	N82S102N	PHIN	89-18	N82S141F	PHIN	53-19
MM52132ZD	NSC	62-87	N74LS170N	PHIN	18-25	N82LS10N	MULB	28-50	N82S102N	PHIN	89-18	N82S141F	PHIN	53-19
MM52164D	NSC	63-87	N74LS194AF	PHIN	71-7	N82LS11F	MULB	28-51	N82S103I	PHIN	89-19	N82S141N	PHIN	53-20
MM52164N	NSC	63-88	N74LS194AF	PHIN	71-7	N82LS11N	MULB	28-52	N82S103N	PHIN	89-20	N82S146F	PHIN	52-28
MMI5530J	MMI	23-71	N74LS194AN	PHIN	71-8	N82LS181F	PHIN	58-7	N82S104N	PHIN	89-106	N82S147F	PHIN	52-29
MN1101	MATJ	22-23	N74LS195AF	PHIN	72-66	N82LS181N	PHIN	58-8	N82S105N	PHIN	89-107	N82S147F	PHIN	52-29
MN1114	MATJ	44-11	N74LS195AN	PHIN	72-67	N82S06I	MULB	23-90	N82S106I	PHIN	45-44	N82S180F	PHIN	58-18
MN1203	MATJ	21-105	N74LS195AF	PHIN	72-66	N82S07I	MULB	23-91	N82S106N	PHIN	45-45	N82S180N	PHIN	58-19
MN1208	MATJ	35-33	N74LS195AN	PHIN	72-67	N82S08I	PHIN	29-30	N82S106N	PHIN	45-45	N82S180N	PHIN	58-19
MN2114	MATJ	44-11	N74LS195AN	PHIN	72-67	N82S08AI	PHIN	22-1	N82S107I	PHIN	45-46	N82S181F	PHIN	58-20
MN2332	MATJ	62-72	N74LS195AN	PHIN	72-67	N82S08AN	PHIN	22-2	N82S107I	PHIN	45-46	N82S181F	PHIN	58-20
MN2716	MATJ	61-13	N74LS289F	PHIN	71-10	N82S09I	MULB	22-5	N82S107N	PHIN	90-17	N82S181N	PHIN	58-21
MN2758	MATJ	56-89	N74LS289F	PHIN	71-10	N82S09N	PHIN	22-6	N82S107N	PHIN	90-17	N82S181N	PHIN	58-21
MN4116	MATJ	42-67	N74LS299F	PHIN	80-29	N82S10F	MULB	28-53	N82S110F	PHIN	28-94	N82S181N	PHIN	58-21
MN5101	MATJ	25-81	N74LS299F	PHIN	80-29	N82S10F	PHIN	80-31	N82S110F	PHIN	28-94	N82S181N	PHIN	58-21
MPS2114-30	MTY	34-80	N74LS299F	PHIN	80-29	N82S10I	MULB	29-2	N82S110N	PHIN	28-95	N82S182F	PHIN	58-14
MPS2114-35	MTY	35-12	N74LS299N	PHIN	80-30	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S182N	PHIN	58-15
MPS2114-45	MTY	35-12	N74LS299N	PHIN	80-30	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S182N	PHIN	58-15
MPS2114-50	MTY	35-33	N74LS299N	PHIN	80-30	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S183F	PHIN	63-68
MPS2114L-30	MTY	34-81	N74LS298F	PHIN	71-9	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S183N	PHIN	63-69
MPS2114L-35	MTY	34-81	N74LS298F	PHIN	71-9	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S183N	PHIN	63-69
MPS2114L-45	MTY	35-13	N74LS298N	PHIN	71-10	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S184F	MULB	59-32
MPS2316	MTY	61-13	N74LS298N	PHIN	71-10	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S184F	MULB	59-32
MPS2332	MTY	63-29	N74LS298N	PHIN	71-10	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S184F	MULB	59-32
MPT2114-45	MTY	35-14	N74LS299F	PHIN	80-29	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S184F	MULB	59-32
MPT2114L-45	MTY	35-15	N74LS299F	PHIN	80-29	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S184F	MULB	59-32
MS109	ECV	44-2	N74LS299N	PHIN	80-30	N82S10F	MULB	28-53	N82S110F	PHIN	28-94	N82S181N	PHIN	58-21
MS113	ECV	44-3	N74LS323F	PHIN	80-31	N82S10F	PHIN	80-31	N82S110F	PHIN	28-94	N82S181N	PHIN	58-21
MS115	ECV	44-8	N74LS323F	PHIN	80-31	N82S10I	MULB	29-2	N82S110N	PHIN	28-95	N82S182F	PHIN	58-14
MS116	ECV	44-4	N74LS323N	PHIN	80-32	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S182N	PHIN	58-15
MS204	ECV	44-6	N74LS323N	PHIN	80-32	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S183F	PHIN	63-68
MS208	ECV	44-5	N74LS323N	PHIN	80-32	N82S10I	PHIN	29-2	N82S110N	PHIN	28-95	N82S183N	PHIN	63-69
MS612	RTC	85-108	N74LS395AF	PHIN	72-70	N82S10N	MULB	28-47	N82S111F	PHIN	28-96	N82S183N	PHIN	63-69
MS618	RTC	85-20	N74LS395AF	PHIN	72-71	N82S10N	PHIN	28-47	N82S111F	PHIN	28-96	N82S184F	MULB	59-32
MS625	RTC	86-73	N74LS395AN	PHIN	72-71	N82S11F	MULB	28-54	N82S111N	PHIN	28-97	N82S184F	MULB	59-32
MSL8520A	OKIJ	47-56	N74LS398F	PHIN	71-11	N82S11F	PHIN	71-11	N82S111N	PHIN	28-97	N82S184I	PHIN	59-98
MSL8521A	OKIJ	47-57	N74LS398F	PHIN	71-11	N82S11F	PHIN	71-11	N82S111N	PHIN	28-97	N82S184I	PHIN	59-98
MSL9650A	OKIJ	65-61	N74LS398F	PHIN	71-11	N82S11F	PHIN	71-11	N82S111N	PHIN	28-97	N82S184I	PHIN	59-98
MSL9650AS	OKIJ	65-60	N74LS398N	PHIN	71-12	N82S11I	MULB	29-3	N82S112N	PHIN	18-104	N82S185F	PHIN	59-33
MSL9652A	OKIJ	65-62	N74LS398N	PHIN	71-12	N82S11I	PHIN	29-3	N82S114I	MULB	48-55	N82S185F#	PHIN	59-31
MSL9660AS	OKIJ	65-59	N74LS399F	PHIN	71-13	N82S11N	MULB	28-48	N82S114I	PHIN	48-55	N82S190I	MULB	61-91
MSL9661AS	OKIJ	65-9	N74LS399F	PHIN	71-13	N82S11N	PHIN	28-48	N82S115F	PHIN	52-69	N82S190I	PHIN	61-92
MSL9662RS	OKIJ	65-10	N74LS399N	PHIN	71-14	N82S12F	MULB	18-102	N82S115F	PHIN	52-69	N82S190N	PHIN	61-92
MSL9663RS	OKIJ	65-11	N74LS399N	PHIN	71-14	N82S12F	PHIN	18-102	N82S115F	PHIN	52-69	N82S190N	PHIN	61-92
MSL9664RS	OKIJ	65-12	N74LS670B	MULB	18-66	N82S12F	PHIN	18-102	N82S115I	MULB	52-70	N82S191I	PHIN	61-93
MSL9665RS	OKIJ	65-13	N74LS670B	MULB	18-66	N82S12F	PHIN	18-102	N82S115I	PHIN	52-70	N82S191I	PHIN	61-93
MSM575	OKIJ	51-75	N74LS670F	MULB	18-67	N82S12N	MULB	18-103	N82S115N	MULB	52-71	N82S191N	MULB	60-58
MSM575-01	OKIJ	64-18	N74LS670F	PHIN	18-67	N82S12N	PHIN	18-103	N82S115N	PHIN	52-71	N82S191N	PHIN	60-58
MSM575-01A	OKIJ	64-19	N74LS670F	PHIN	18-67	N82S12N	PHIN	18-103	N82S115N	PHIN	52-71	N82S191N	PHIN	60-58
MSM575-02	OKIJ	64-20	N74LS670N	PHIN	18-26	N82S16B	MULB	23-44	N82S116B	MULB	23-16	N82S200I	MULB	45-36
MSM575A	OKIJ	51-2	N74S89F	MULB	20-86	N82S16F	MULB	23-13	N82S116F	MULB	23-17	N82S200I	PHIN	45-36
MSM2114	OKIJ	33-79	N74S89F	PHIN	20-86	N82S16F	PHIN	23-13	N82S116F	PHIN	23-17	N82S200N	PHIN	45-37
MSM2114-2RS	OKIJ	33-79	N74S89N	MULB	20-87	N82S16N	MULB	23-14	N82S116N	MULB	23-18	N82S200N	PHIN	45-37
MSM2114-3RS	OKIJ	34-51	N74S89N	PHIN	20-87	N82S16N	PHIN	23-14	N82S116N	PHIN	23-18	N82S200N	PHIN	45-37
MSM2114L-2	OKIJ	33-80	N74S89N	MULB	20-87	N82S17B	MULB	23-45	N82S117B	MULB	23-19	N82S201I	MULB	45-38
MSM2114L-3	OKIJ	34-52	N74S89N	PHIN	20-87	N82S17B	PHIN	23-45	N82S117B	PHIN	23-19	N82S201I	PHIN	45-38
MSM2128	OKIJ	37-14	N74S172F	MULB	18-100	N82S17F	MULB	23-15	N82S123B	MULB	44-101	N82S201I	PHIN	45-38
MSM2128-1	OKIJ	37-15	N74S172F	PHIN	18-100	N82S17F	PHIN	23-15	N82S123B	PHIN	44-102	N82S201I	PHIN	45-38
MSM2718AS	OKIJ	62-8	N74S172N	MULB	18-101	N82S17N	MULB	23-46	N82S123B	PHIN	44-102	N82S201N	PHIN	45-39
MSM3716-2AS	OKIJ	42-30	N74S172N	PHIN	18-101	N82S17N	PHIN	23-46	N82S123N	MULB	44-103	N82S201N	PHIN	45-39
MSM3716-3AS	OKIJ	42-30	N74S172N	PHIN	18-101	N82S17N	PHIN	23-46	N82S123N	PHIN	44-103	N82S201N	PHIN	45-39
MSM3716-4AS	OKIJ	42-101	N74S172N	PHIN	18-101	N82S19F	MULB	22-3	N82S123N	PHIN	44-103	N82S210F	PHIN	27-102
MSM3741-1A	OKIJ	38-73	N74S178A	MULB	74-13	N82S19N	MULB	22-4	N82S126B	MULB	47-29	N82S210N	PHIN	27-103
MSM3741-2A	OKIJ	38-77	N74S178A	PHIN	74-13	N82S19N	PHIN	22-4	N82S126B	PHIN	47-29	N82S210N	PHIN	27-103
MSM3750-6A	OKIJ	32-84	N74S178F	MULB	74-14	N82S21B	MULB	21-61	N82S126F	MULB	47-30	N82S212F	PHIN	27-101
MSM3750-8A	OKIJ	32-85	N74S178F	PHIN	74-14	N82S21B	PHIN	21-61	N82S126F	PHIN	47-30	N82S212F	PHIN	27-101
MSM3758A	OKIJ	58-84	N74S179B	MULB	74-15	N82S21N	MULB	21-62	N82S126I	MULB	46-12	N82S214F	MULB	47-67
MSM3758AS	OKIJ	58-78	N74S179B	PHIN	74-15	N82S21N	PHIN	21-62	N82S126I	PHIN	46-12	N82S214F	PHIN	47-68
MSM3761AS	OKIJ	65-63	N74S179F	MULB	74-16	N82S21N	PHIN	21-62	N82S126I	PHIN	46-12	N82S214I	PHIN	

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N82S290F (cont.)	♦PHIN		N8204Y	MULB	47- 93	N74166B	MULB	79- 41	NMC6504J-9	♦NSC	39- 18	PAL12L6CN	♦MMI	89- 48
♦SIC	♦VALG		N8204YCB504	PHIN	66- 43	♦SIC	♦SIC	82- 26	NMC6504N-5	♦NSC	39- 18	PAL12L6MJ	♦MMI	89- 49
N82S290N	♦MULB	60- 60	♦SIC	MULB	66- 9	N74166F	PHIN	82- 27	NMC6504N-9	♦NSC	29- 62	PAL12L6MN	♦MMI	89- 50
♦PHIN	♦SIC		N8204YCB505	PHIN	66- 9	♦SIC	♦SIC	82- 27	NMC6508BJ-2	♦NSC	29- 62	PAL14H4CJ	♦MMI	89- 35
N82S291F	♦VALG	60- 61	N8205Y	MULB	51- 52	N74166N	♦PHIN	18- 27	NMC6508BJ-9	♦NSC	29- 63	PAL14H4CN	♦MMI	89- 38
♦PHIN	♦MULB		♦SIC	PHIN	66- 10	♦SIC	♦SIC	18- 27	NMC6508BN-9	♦NSC	29- 64	PAL14H4MJ	♦MMI	89- 37
N82S291N	♦VALG	60- 62	N8205YCB175#1	MULB	66- 10	N74170B	MULB	18- 27	NMC6508J-2	♦NSC	29- 73	PAL14H4MN	♦MMI	89- 38
♦PHIN	♦SIC		♦SIC	PHIN	66- 48	N74170F	PHIN	18- 28	NMC6508J-9	♦NSC	29- 74	PAL14L4CN	♦MMI	89- 39
N82S400AI	♦MULB	38-103	N8205YCB175#2	MULB	66- 48	♦SIC	♦SIC	18- 28	NMC6508N-5	♦NSC	29- 74	PAL14L4CJ	♦MMI	89- 40
♦PHIN	♦VALG		♦SIC	PHIN	66- 48	N74170N	MULB	18- 65	NMC6508N-9	♦NSC	29- 75	PAL14L4MN	♦MMI	89- 42
N82S400I	♦MULB	38-104	N8220B	PHIN	89- 1	♦SIC	♦SIC	18- 65	NMC6514J-2	♦NSC	32-105	PAL16A4CJ	♦MMI	89- 59
♦PHIN	♦VALG		♦SIC	MULB	89- 1	N74172F	PHIN	18- 94	NMC6514J-5	♦NSC	32-109	PAL16A4CN	♦MMI	89- 60
N82S401AI	♦MULB	38-105	N8223B	PHIN	45- 16	♦SIC	♦SIC	18- 94	NMC6514J-9	♦NSC	32-106	PAL16A4MJ	♦MMI	89- 61
♦PHIN	♦VALG		N8223F	MULB	45- 17	N74172N	MULB	18- 95	NMC6514N-5	♦NSC	32-110	PAL16A4MN	♦MMI	89- 62
N82S401I	♦MULB	38-106	N8223W	PHIN	45- 18	♦SIC	♦SIC	18- 95	NMC6514N-9	♦NSC	32-107	PAL16C1CJ	♦MMI	89- 83
♦PHIN	♦VALG		N8224B	MULB	44- 33	N74178A	PHIN	69- 13	NMC6518AJ-9	♦NSC	29- 65	PAL16C1CN	♦MMI	89- 84
N82S2708F	♦MULB	58- 22	N8224CB180	MULB	66- 8	♦SIC	♦SIC	69- 13	NMC6518BJ-2	♦NSC	29- 66	PAL16C1MJ	♦MMI	89- 85
♦PHIN	♦VALG		♦SIC	PHIN	66- 8	N74178F	MULB	69- 14	NMC6518BJ-9	♦NSC	29- 67	PAL16C1MN	♦MMI	89- 86
N82S2708N	♦MULB	58- 23	N8224F	PHIN	44- 34	♦SIC	♦SIC	69- 14	NMC6518BN-9	♦NSC	29- 68	PAL16H2CJ	♦MMI	89- 51
♦PHIN	♦VALG		N8224W	MULB	44- 35	N74179B	PHIN	69- 15	NMC6518J-2	♦NSC	29- 76	PAL16H2CN	♦MMI	89- 52
N93L415F	♦MULB	29- 4	N8225B	PHIN	21- 21	♦SIC	♦SIC	69- 15	NMC6518J-9	♦NSC	29- 77	PAL16H2MJ	♦MMI	89- 53
♦PHIN	♦VALG		N8225F	MULB	21- 22	N74179F	MULB	69- 16	NMC6518N-5	♦NSC	29- 100	PAL16H2MN	♦MMI	89- 54
N93L415N	♦MULB	29- 5	N8225W	PHIN	21- 23	♦SIC	♦SIC	69- 16	NMC6518N-9	♦NSC	29- 101	PAL16H2MJ	♦MMI	89- 55
♦PHIN	♦VALG		♦SIC	MULB	21- 23	N74194B	PHIN	71- 68	NMC6518-5	♦NSC	25- 17	PAL16L2CJ	♦MMI	89- 56
N93L425N	♦PHIN	28- 59	N8228F	PHIN	53- 91	♦SIC	♦SIC	71- 68	NMC6518-9	♦NSC	25- 18	PAL16L2CN	♦MMI	89- 57
N2010K	♦MULB	86- 69	N8228I	MULB	53-104	N74194F	MULB	71- 69	NMC6518-9	♦NSC	25- 19	PAL16L2MJ	♦MMI	89- 58
N2114-UMA	♦EMM	34- 55	N8228ICD162	PHIN	64- 65	♦SIC	♦SIC	71- 69	NMC6518-9	♦NSC	25- 19	PAL16L2MN	♦MMI	89- 58
N2114-UME	♦EMM	34- 56	♦SIC	MULB	64- 65	N74194N	PHIN	71- 70	NMC6518-9	♦NSC	25- 19	PAL16L2MJ	♦MMI	89- 57
N2410I	♦MULB	46- 25	N8270A	PHIN	69- 3	♦SIC	♦SIC	71- 70	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
N2411I	♦MULB	46- 26	N8270F	MULB	69- 4	N74195B	MULB	73- 22	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
N2430YCM0000	♦MULB	66- 44	♦SIC	PHIN	69- 3	♦SIC	♦SIC	73- 22	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N3101AB	♦MULB	20- 62	N8270N	PHIN	69- 5	N74195F	PHIN	73- 23	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
N3101AF	♦MULB	20- 63	♦SIC	MULB	69- 4	♦SIC	♦SIC	73- 23	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦PHIN	♦VALG		N8270N	PHIN	69- 5	N74195F	PHIN	73- 23	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
N3101AN	♦PHIN	20- 64	♦SIC	MULB	69- 3	N74195N	PHIN	73- 24	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
♦SIC	♦VALG		N8270W	PHIN	69- 6	♦SIC	♦SIC	73- 24	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N7488B	♦MULB	44- 31	♦SIC	MULB	69- 6	N74195N	PHIN	73- 24	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
N7488W	♦MULB	44- 32	N8271B	PHIN	69- 7	♦SIC	♦SIC	73- 24	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦PHIN	♦VALG		♦SIC	MULB	69- 7	N8271F	PHIN	69- 8	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
N7489B	♦MULB	21- 20	N8271F	PHIN	69- 8	♦SIC	♦SIC	69- 8	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
N7491A	♦MULB	83- 80	N8271N	PHIN	69- 9	♦SIC	♦SIC	69- 8	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N7491AF	♦PHIN	83- 81	♦SIC	MULB	69- 10	N8271W	PHIN	69- 10	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
♦SIC	♦VALG		N8271W	PHIN	69- 10	♦SIC	♦SIC	69- 10	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N7491AN	♦PHIN	83- 82	N8273B	MULB	84- 72	N8273B	PHIN	84- 72	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
♦SIC	♦VALG		♦SIC	MULB	84- 72	♦SIC	♦SIC	84- 72	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
N7491F	♦MULB	83- 83	N8273F	PHIN	84- 73	N8273F	PHIN	84- 73	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦PHIN	♦VALG		♦SIC	MULB	84- 73	♦SIC	♦SIC	84- 73	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
N7494B	♦MULB	74- 89	N8273N	PHIN	84- 74	N8273N	PHIN	84- 74	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N7494F	♦PHIN	74- 90	♦SIC	MULB	84- 75	♦SIC	♦SIC	84- 74	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
♦SIC	♦VALG		N8273W	PHIN	84- 75	♦SIC	♦SIC	84- 74	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
N7494N	♦PHIN	68- 70	N8274B	MULB	84- 60	N8274B	PHIN	84- 60	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦SIC	♦VALG		♦SIC	MULB	84- 61	♦SIC	♦SIC	84- 60	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
N7495A	♦MULB	67- 79	N8274F	PHIN	84- 61	♦SIC	♦SIC	84- 61	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N7495AF	♦PHIN	71- 66	♦SIC	MULB	84- 61	♦SIC	♦SIC	84- 61	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
♦SIC	♦VALG		N8274N	PHIN	84- 62	♦SIC	♦SIC	84- 61	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
N7495AN	♦PHIN	71- 67	♦SIC	MULB	84- 63	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦SIC	♦VALG		N8274W	PHIN	84- 63	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
N7495F	♦MULB	73- 62	N8275B	MULB	67- 41	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N7496B	♦PHIN	76- 24	♦SIC	PHIN	67- 41	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
♦SIC	♦VALG		N8275E	MULB	67- 42	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
N7496F	♦MULB	75-100	N8275F	PHIN	67- 43	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦PHIN	♦VALG		♦SIC	MULB	67- 43	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
N7496N	♦PHIN	76- 25	N8276A	PHIN	83-101	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦SIC	♦VALG		♦SIC	MULB	83-101	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
N8200F	♦MULB	76- 57	N8276F	PHIN	83-102	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
♦PHIN	♦VALG		♦SIC	MULB	83-102	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N8200N	♦MULB	76- 58	N8277F	PHIN	84- 21	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
♦PHIN	♦VALG		♦SIC	MULB	84- 21	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
N8200Q	♦MULB	76- 59	N8277N	PHIN	84- 22	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2CJ	♦MMI	89- 76
♦PHIN	♦VALG		♦SIC	MULB	84- 22	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2CN	♦MMI	89- 77
N8201F	♦MULB	76- 60	N9300B	PHIN	69- 11	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦PHIN	♦VALG		♦SIC	MULB	69- 11	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MJ	♦MMI	89- 77
N8201N	♦MULB	76- 61	N9300E	PHIN	69- 12	♦SIC	♦SIC	84- 62	NMC6518-9	♦NSC	25- 32	PAL16L2MN	♦MMI	89- 78
♦PHIN	♦VALG		♦SIC	MULB	69- 12									

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RC82S114N	MULB	48-78	RC64194B	MULB	71-75	S54LS395AW	PHIN	72-77	S82S231F	PHIN	49-58	S8270F	PHIN	69-31
RC82S115F	MULB	53-12	RC54194F	MULB	71-76	PHIN	VALG	PHIN	PHIN	VALG	PHIN	PHIN	VALG	PHIN
RC82S115N	MULB	53-13	RC54194W	MULB	71-77	S54LS398F	PHIN	71-21	S82S240F	PHIN	51-53	S8270W	PHIN	69-32
RC82S116F	MULB	23-20	RC54195F	MULB	73-27	PHIN	VALG	PHIN	PHIN	VALG	PHIN	PHIN	VALG	PHIN
RC82S117F	MULB	23-21	RC54195W	MULB	73-27	S54LS399F	PHIN	71-22	S82S241F	PHIN	51-54	S8271B	PHIN	69-33
RC82S123F	MULB	45-26	RC54198F	MULB	79-49	PHIN	VALG	PHIN	PHIN	VALG	56-8	S8271F	PHIN	69-34
RC82S123N	MULB	45-27	RC54198N	MULB	79-50	S54LS399W	PHIN	71-23	S82S280F	PHIN	56-9	PHIN	VALG	PHIN
RC82S140F	MULB	53-29	RC54198Q	MULB	79-51	PHIN	VALG	PHIN	PHIN	VALG	56-10	S8271W	PHIN	69-35
RC82S140N	MULB	53-30	RC54199F	MULB	79-52	S54LS670F	PHIN	18-68	S82S281F	PHIN	56-11	PHIN	VALG	PHIN
RC82S141F	MULB	53-31	RC54199N	MULB	79-53	S54LS670W	PHIN	18-69	S82S290F	PHIN	60-67	S8273B	PHIN	84-79
RC82S141N	MULB	53-32	RC54199Q	MULB	79-54	PHIN	VALG	PHIN	PHIN	VALG	60-63	S8273F	PHIN	84-80
RC82S180F	MULB	58-26	RD803	MON	75-16	S54S89F	PHIN	20-109	S82S290N	MULB	60-63	S8273W	PHIN	84-81
RC82S180N	MULB	58-27	RD804	MON	75-16	PHIN	VALG	PHIN	PHIN	VALG	60-68	PHIN	VALG	PHIN
RC82S181F	MULB	58-28	RD806	MON	78-34	S54S172F	PHIN	18-96	PHIN	VALG	58-35	S8274B	PHIN	84-67
RC82S181N	MULB	58-29	RH803	MON	75-14	PHIN	SIC	PHIN	PHIN	VALG	58-35	PHIN	VALG	PHIN
RC82S184F	MULB	59-104	RH804	MON	75-29	S54S172N	PHIN	18-97	S82S2708F	PHIN	28-65	S8274F	PHIN	84-68
RC82S185F	MULB	59-105	RH806	MON	78-33	PHIN	SIC	PHIN	PHIN	VALG	28-66	PHIN	VALG	PHIN
RC82S190I	MULB	61-94	RM15	ECV	44-7	S54S189F	PHIN	20-92	S93L415F	PHIN	28-66	PHIN	VALG	PHIN
RC82S190N	MULB	61-95	RM15Y	ECV	44-9	PHIN	VALG	PHIN	PHIN	VALG	28-67	PHIN	VALG	PHIN
RC82S191I	MULB	61-96	RM32	ECV	44-10	S54S194J	PHIN	74-46	S93L425F	PHIN	28-68	S8274W	PHIN	84-69
RC82S191N	MULB	60-66	RM256A#1	ECV	45-83	PHIN	SIC	PHIN	PHIN	VALG	85-1	PHIN	VALG	PHIN
RC82S200I	MULB	45-40	RM256A#2	ECV	45-68	S54S194W	PHIN	74-47	S2002K	PHIN	85-22	S8275B	PHIN	67-44
RC82S200N	MULB	45-41	RM256A#3	ECV	45-50	PHIN	SIC	PHIN	PHIN	SIC	85-39	PHIN	SIC	PHIN
RC82S201I	MULB	45-42	RM256A#4	ECV	45-30	S54S195J	PHIN	73-29	S2003K	PHIN	85-39	S8275E	PHIN	67-45
RC82S201N	MULB	45-43	RM256A#5	ECV	44-12	PHIN	SIC	PHIN	PHIN	SIC	85-60	S8275R	PHIN	67-46
RC82S214I	MULB	47-78	RO1-2048#1	GIC	59-19	S54S195W	PHIN	73-30	S2004K	PHIN	85-60	PHIN	SIC	PHIN
RC82S215I	MULB	51-35	RO1-2048#2	GIC	53-66	PHIN	SIC	PHIN	PHIN	SIC	86-66	S9300B	PHIN	69-36
RC82S226F	MULB	46-18	RO1-2048#3	GIC	49-64	S54S301F	PHIN	23-75	S2005K	PHIN	86-66	PHIN	SIC	PHIN
RC82S229F	MULB	46-19	RO1-2048#4	GIC	48-13	PHIN	VALG	PHIN	PHIN	SIC	62-71	S9300E	PHIN	69-37
RC82S230F	MULB	49-56	RO1-2048S#1	GIC	48-19	S68A10	AMI	22-42	SIC	AMI	62-71	PHIN	SIC	PHIN
RC82S231F	MULB	49-20	RO1-2048S#2	GIC	49-67	S68B10	AMI	22-41	S2332	AMI	63-64	S9300F	PHIN	73-31
RC82S240F	MULB	49-21	RO1-2240	GIC	64-6	S82LS10N	PHIN	28-61	S2364	AMI	20-93	PHIN	SIC	PHIN
RC82S240N	MULB	50-92	RO1-8192	GIC	59-25	S82LS11N	PHIN	28-62	S3101AF	PHIN	20-93	PHIN	VALG	PHIN
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RC82S241N	MULB	51-1	RO3-2560	GIC	50-87	S82S09AF	PHIN	22-7	S5101	AMI	25-100	S54164A	PHIN	83-30
RC82S280I	MULB	55-30	RO3-4096	GIC	51-76	S82S09I	PHIN	22-8	S5101-1	AMI	25-106	PHIN	SIC	PHIN
RC82S281I	MULB	55-31	RO3-5120	GIC	53-55	PHIN	VALG	PHIN	AMI	26-2	S54164F	PHIN	VALG	PHIN
RC82S290F	MULB	60-7	RO3-8316A	GIC	60-104	S82S09N	PHIN	22-9	S5101-3	AMI	25-107	PHIN	SIC	PHIN
RC82S290N	MULB	60-5	RO3-8316B	GIC	60-102	S82S10N	PHIN	28-63	S5101-8	AMI	25-107	S54165B	PHIN	79-13
RC82S291F	MULB	60-8	RO3-8316A	GIC	60-105	S82S11N	PHIN	28-64	S5101L1	AMI	26-3	PHIN	SIC	PHIN
RC82S291N	MULB	60-6	RO3-8316B	GIC	60-103	S82S16F	PHIN	23-76	S5101L8	AMI	25-108	S54165F	PHIN	79-14
RC82S2708F	MULB	58-30	RO3-9316C	GIC	60-101	PHIN	VALG	PHIN	AMI	53-48	PHIN	SIC	PHIN	
RC82S2708N	MULB	58-31	RO3-9332A	GIC	62-97	S82S16N	PHIN	23-77	S5204A	AMI	53-49	S54165W	PHIN	79-15
RC2001K	MULB	84-102	RO3-9332B	GIC	62-96	S82S17F	PHIN	23-78	S5204A-3L	AMI	83-84	S54166B	PHIN	79-55
RC2002K	MULB	85-21	RO3-9332C	GIC	62-95	PHIN	VALG	PHIN	PHIN	SIC	83-85	PHIN	VALG	PHIN
RC2003K	MULB	85-38	RO3-9364B	GIC	63-89	S82S17N	PHIN	23-79	S5491AF	PHIN	83-86	S54166F	PHIN	79-56
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RC2005K	MULB	86-65	RO3-20480	GIC	62-20	S82S23F	PHIN	45-28	PHIN	SIC	83-87	PHIN	SIC	PHIN
RC3101AF	MULB	20-91	RO5-1302	GIC	48-10	PHIN	VALG	PHIN	PHIN	SIC	83-88	PHIN	VALG	PHIN
RC5491A	MULB	83-106	RO5-2240S	GIC	64-22	S82S25F	PHIN	20-110	S5491AW	PHIN	83-88	S54166W	PHIN	79-57
RC5491F	MULB	83-107	RO5-5184	GIC	64-31	PHIN	VALG	PHIN	PHIN	SIC	83-88	PHIN	SIC	PHIN
RC5491W	MULB	83-108	RO5-8192	GIC	59-26	S82S100I	PHIN	89-104	PHIN	VALG	83-88	PHIN	SIC	PHIN
RC5494B	MULB	75-2	RO6-1024/4	GIC	46-27	PHIN	VALG	PHIN	PHIN	VALG	74-91	S54170B	PHIN	18-32
RC5494F	MULB	75-3	RO6-1024/8	GIC	45-72	S82S101I	PHIN	89-105	S5491W	PHIN	74-91	PHIN	SIC	PHIN
RC5494W	MULB	75-4	RO6-2048/4	GIC	49-62	PHIN	VALG	PHIN	PHIN	VALG	74-91	S54170F	PHIN	18-33
RC5495A	MULB	71-73	RO6-2048/8	GIC	48-11	S82S102I	PHIN	89-21	S5494B	MULB	74-92	S54170W	PHIN	18-34
RC5495F	MULB	71-74	RO6-2048S#1	GIC	48-100	PHIN	VALG	PHIN	PHIN	SIC	74-92	PHIN	VALG	PHIN
RC5495W	MULB	76-26	RO6-2048S#2	GIC	50-79	S82S103I	PHIN	89-22	PHIN	VALG	74-93	S54178A	PHIN	69-38
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RC5496F	MULB	76-28	RO7-1024/8	GIC	45-73	S82S104I	PHIN	90-2	S5494W	PHIN	71-78	S54178F	PHIN	69-39
RC5496W	MULB	76-28	RO7-2048/4	GIC	49-63	S82S105I	PHIN	90-3	PHIN	SIC	71-79	PHIN	SIC	PHIN
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RC8201N	MULB	76-86	RT802	MON	75-77	PHIN	SIC	PHIN	PHIN	VALG	71-81	PHIN	SIC	PHIN
RC8201Q	MULB	76-87	RT807	MON	83-109	S82S114F	PHIN	48-79	S5495F	PHIN	71-81	S54179F	PHIN	69-42
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RC8202N	MULB	84-49	RT809	MON	85-30	S82S115F	PHIN	53-15	PHIN	SIC	76-29	PHIN	SIC	PHIN
RC8202Q	MULB	84-50	RT813	MON	85-18	PHIN	VALG	PHIN	PHIN	SIC	76-30	S54194B	PHIN	71-82
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RC8223W	MULB	45-21	S54LS96F	PHIN	76-54	S82S126F	PHIN	47-50	S6504	AMI	30-75	S54195B	PHIN	73-33
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SN74LS377W	MOTA	79-109	SN74S476N	TTI	54-37				SYP2333	SYK	62-80	TMS2147-9NL	TTI	37-28
SN74LS378J	MOTA	78-4	SN74S477J	TTI	54-38	SN74195N	AMD	73-42	SYP2333-3	SYK	62-76	TMS2508-25JL	TTI	58-42
SN74LS378N	MOTA	78-5	SN74S477N	TTI	54-39				SYP2364	SYK	63-51	TMS2508-30JL	TTI	58-47
SN74LS378W	MOTA	78-6	SN74S478J	TTI	57-31	SN74195W	TTI	73-43	SYP2364-3	SYK	63-71	TMS2516JL	TTI	62-4
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SN74LS379N	MOTA	72-108	SN74S479N	TTI	57-33	SN74198N	TTI	79-71	T101	ICC	69-45	TMS2564JL	TTI	63-95
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SN74LS395J	MOTA	72-110	SN74S3708J	TTI	57-37	SN74273N	TTI	80-2	T114	ICC	77-93	TMS2716L	AMD	62-6
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SN74LS395W	MOTA	73-2	SN5481AJ	TTI	19-25	SN74278N	TTI	67-50	T150D1	SGAI	70-46	TMS3114NC	AMD	86-88
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SN74LS478J	TTI	57-76	SN5484AW	TTI	19-28	SN81002	TTI	21-81	T153B1B	SGAI	18-106	TMS4044-15NL	TTI	39-67
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SN74LS574W	MOTA	80-58	SN5494W	TTI	74-95	SR5018	SMC	86-152	TC5047AP-1	TOSJ	33-4	TMS4116-15JDL	TTI	42-32
SN74LS670J	MOTA	18-22	SN5495AJ	TTI	71-90	SR5018	SMC	86-156	TC5047AP-2	TOSJ	33-8			
SN74LS670N	MOTA	18-23	SN5495AW	TTI	71-91	SS5-1032-31	GIC	85-2	TC5501P	TOSJ	25-64	TMS4116-15NL	TTI	42-33
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SN74LS674J	TTI	84-97	SN7481AN	TTI	19-5	SS6-1032-55	GIC	85-6	TC5504P-2	TOSJ	39-22	TMS4116-25JDL	TTI	42-103
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SN74S195N	AMD	74-42	SN54166J	TTI	82-7	SYC2111A	SYK	26-98	TF4014AN	TTI	81-11	TMS4164-12JDL	TTI	37-30
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SN74S314AN	TTI	28-58	SN54378J	TTI	73-39	SYC2364-3	SYK	60-44	TMM416D-4	TOSJ	42-31	UPB425D	NECJ	53-24
SN74S314J	TTI	28-71	SN54378W	TTI	73-40	SYC2364-3	SYK	60-39	TMM416P-2	TOSJ	42-70	UPB426D	NECJ	55-14
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uPD2308D	NECJ	56-83	Z6142-2PS	ZIL	33-46									
uPD2316AC	NECJ	60-107	Z6142-3CS	ZIL	33-99									
uPD2316AD	NECJ	60-108	Z6142-3PS	ZIL	33-100									
uPD2316EC	NECJ	60-109	Z6142-4CS	ZIL	34-9									
uPD2316ED	NECJ	60-110	Z6142-4PS	ZIL	34-10									
uPD2332C	NECJ	63-14	Z6142-5CS	ZIL	34-74									
	NECM		Z6142-5PS	ZIL	34-75									

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)NO.WORDS(2)NO.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		M O D E	S T R U C T U R E CODE	M A X ACCESS TIME (s)	M A X WRITE CYCLE TIME (s)	M A X O P E R . P O W E R D I S S . (W)	R A T E D P O W E R S U P . S P A N		I N P U T L O G I C L E V E L S		M I N O U T P U T S I N K C U R R E N T (A)	M I N C L O C K F R E Q . (H z)	O P E R . T E M P . R A N G E C O D E	D R A W I N G S	
		N o . W O R D S	B I T S P E R W O R D						N E G . (V)	P O S . (V)	M A X ' 0 ' (V)	M I N ' 1 ' (V)				L O G I C / B L O C K	O U T L I N E
1	9030DC	4	2	S	BTX	25n	45n	350m	0.0	4.5	.80	1.25	5.0uA	0	7	PN19d	ML19c
2	95401DC	4	4	S	BEX	10n	6.0n	416m	5.2	0.0	-1.4	-1.1	50m	0	7	A60a	TO116
3	54LS170DM	4	4	S	BTD	20n	25n	200m	0.0	5.0	.70	2.0A	4.0m	5	5	A156	ML127
4	54LS170FM	4	4	S	BTD	20n	25n	200m	0.0	5.0	.70	2.0A	4.0m	5	5	A156	FL14g
5	54LS670DM	4	4	S	BTD	20n	25n	250m	0.0	5.0	.70	2.0S	4.0m	5	5	A157	ML127k
6	54LS670FM	4	4	S	BTD	20n	25n	250m	0.0	5.0	.70	2.0S	4.0m	5	5	A157	FL14g
7	54LS670J	4	4	S	BTD	20n	25n	250m	0.0	5.0	.70	2.0S	4.0m	5	5	A157	ML7
8	54LS670W	4	4	S	BTD	20n	25n	250m	0.0	5.0	.70	2.0S	4.0m	5	5	A157	FL14h
9	74LS170DC	4	4	S	BTD	20n	25n	200m	0.0	5.0	.80	2.0A	4.0m	0	7	A156	ML127e
10	74LS170FC	4	4	S	BTD	20n	25n	200m	0.0	5.0	.80	2.0A	4.0m	0	7	A156	FL14g
11	74LS170PC	4	4	S	BTD	20n	25n	200m	0.0	5.0	.80	2.0A	4.0m	0	7	A156	ML170
12	74LS670DC	4	4	S	BTD	20n	25n	250m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	ML127k
13	74LS670FC	4	4	S	BTD	20n	25n	250m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	FL14g
14	74LS670PC	4	4	S	BTD	20n	25n	250m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	ML170
15	SN54LS170J	4	4	S	BTD	20n	25n	200m	0.0	5.0	.70	2.0	4.0m	5	5	A156	ML331
16	SN54LS170W	4	4	S	BTD	20n	25n	200m	0.0	5.0	.70	2.0	4.0m	5	5	A156	FL63
17	SN54LS670J	4	4	S	BTD	20n	25n	250m	0.0	5.0	.70	2.0S	4.0m	5	5	A157	ML331
18	SN54LS670W	4	4	S	BTD	20n	25n	250m	0.0	5.0	.70	2.0S	4.0m	5	5	A157	FL63
19	SN74LS170J	4	4	S	BTD	20n	25n	200m	0.0	5.0	.80	2.0	4.0m	0	7	A156	ML331
20	SN74LS170N	4	4	S	BTD	20n	25n	200m	0.0	5.0	.80	2.0	4.0m	0	7	A156	ML331
21	SN74LS170W	4	4	S	BTD	20n	25n	200m	0.0	5.0	.80	2.0	4.0m	0	7	A156	FL63
22	SN74LS670J	4	4	S	BTD	20n	25n	250m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	ML331
23	SN74LS670N	4	4	S	BTD	20n	25n	250m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	ML331
24	SN74LS670W	4	4	S	BTD	20n	25n	250m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	FL63
25	N74LS170N	4	4	S	BTD	35n	25n	200m	0.0	5.0	.80	2.0	16m	0	7	A141	MO001AB
26	N74LS670N	4	4	S	BTD	45n	25n	250m	0.0	5.0	.80	2.0S	16m	0	7	A156	MO001AB
27	N74170B	4	4	S	BTX		25n	750m	0.0	5.0	.80	2.0	16m	0	7	A141	ML132
28	N74170F	4	4	S	BTX		25n	750m	0.0	5.0	.80	2.0	16m	0	7	A141	ML61d
29#	RC54170B	4	4	S	BTX		25n	750m	0.0	5.0	.80	2.0	16m	5	5	A141	ML132
30#	RC54170F	4	4	S	BTX		25n	750m	0.0	5.0	.80	2.0	16m	5	5	A141	ML61d
31#	RC54170W	4	4	S	BTX		25n	750m	0.0	5.0	.80	2.0	16m	5	5	A141	FL25
32#	S54170B	4	4	S	BTX		25n	750m	0.0	5.0	.80	2.0	16m	5	5	A141	ML132
33#	S54170F	4	4	S	BTX		25n	750m	0.0	5.0	.80	2.0	16m	5	5	A141	ML61d
34	S54170W	4	4	S	BTX		25n	750m	0.0	5.0	.80	2.0	16m	5	5	A141	FL25
35	9LS170DC	4	4	S	BTX	20n	25n	210m	0.0	5.0	.80	2.0A	4.0m	0	7	A156	ML127s
36	9LS170DM	4	4	S	BTX	20n	25n	220m	0.0	5.0	.70	2.0A	4.0m	0	7	A156	ML127s
37	9LS170FC	4	4	S	BTX	20n	25n	210m	0.0	5.0	.80	2.0A	4.0m	0	7	A156	FL14g
38	9LS170FM	4	4	S	BTX	20n	25n	220m	0.0	5.0	.70	2.0A	4.0m	0	7	A156	FL14g
39	9LS170PC	4	4	S	BTX	20n	25n	210m	0.0	5.0	.80	2.0A	4.0m	0	7	A156	ML170
40	9LS670DC	4	4	S	BTX	20n	25n	262m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	ML127s
41	9LS670DM	4	4	S	BTX	20n	25n	275m	0.0	5.0	.70	2.0S	4.0m	0	7	A157	ML127s
42	9LS670FC	4	4	S	BTX	20n	25n	262m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	FL14g
43	9LS670FM	4	4	S	BTX	20n	25n	275m	0.0	5.0	.70	2.0S	4.0m	0	7	A157	FL14g
44	9LS670PC	4	4	S	BTX	20n	25n	262m	0.0	5.0	.80	2.0S	4.0m	0	7	A157	ML170
45	54170DM	4	4	S	BTX	20n	25n	700m	0.0	5.0	.80	2.0A	16m	5	5	A157	ML127e
46	54170FM	4	4	S	BTX	20n	25n	700m	0.0	5.0	.80	2.0A	16m	5	5	A157	FL14g
47	74170DC	4	4	S	BTX	20n	25n	750m	0.0	5.0	.80	2.0A	16m	0	7	A157	ML127e
48	74170FC	4	4	S	BTX	20n	25n	750m	0.0	5.0	.80	2.0A	16m	0	7	A157	FL14g
49	74170PC	4	4	S	BTX	20n	25n	750m	0.0	5.0	.80	2.0A	16m	0	7	A157	ML170
50#	M74LS170P	4	4	S	BTX	20n	25n	262m	0.0	5.0	0.8	2.0	4.0m	0	7	A156	ML409
51#	M74LS630P	4	4	S	BTX	20n	25n	262m	0.0	5.0	0.8	2.0	4.0m	0	7	A157	ML409
52#	M53284P	4	4	S	BTX	20n	60n	480m	0.0	5.0	.80	2.0	40m	0	7	A84	ML5a
53#	M53370P	4	4	S	BTX	20n	25n	787m	0.0	5.0	.80	2.0	16m	0	7	A141	ML5a
54	N74LS170B	4	4	S	BTX	20n	25n	210m	0.0	5.0	.80	2.0A	8.0m	0	7	A156	ML132
55	N74LS170F	4	4	S	BTX	20n	25n	210m	0.0	5.0	.80	2.0A	8.0m	0	7	A156	ML127m
56	S54LS170F	4	4	S	BTX	20n	25n	210m	0.0	5.0	.80	2.0A	4.0m	5	5	A156	FL25
57	S54LS170W	4	4	S	BTX	20n	25n	210m	0.0	5.0	.80	2.0A	4.0m	5	5	A156	FL25
58	SN54170J	4	4	S	BTX	20n	25n	770m	0.0	5.0	.80	2.0	16m	5	5	A141	ML61a
59	SN54170W	4	4	S	BTX	20n	25n	770m	0.0	5.0	.80	2.0	16m	5	5	A141	MO004AG
60	SN74170J	4	4	S	BTX	20n	25n	787m	0.0	5.0	.80	2.0	16m	0	7	A141	ML61a
61	SN74170N	4	4	S	BTX	20n	25n	787m	0.0	5.0	.80	2.0	16m	0	7	A141	ML48
62#	uPB2170D	4	4	S	BTX	30n	25n	630m	0.0	5.0	.80	2.0	16m	2	7	PN16q	ML127s
63#	FLQ131-74170	4	4	S	BTX	40n	25n	700m	0.0	5.0	.80	2.0	16m	0	7	A141	ML7
64#	FLQ135-84170	4	4	S	BTX	40n	25n	700m	0.0	5.0	.80	2.0	16m	0	7	A141	MO001AE
65	N74170N	4	4	S	BTX	45n	25n	750m	0.0	5.0	.80	2.0	16m	0	7	A141	ML132
66	N74LS670B	4	4	S	BTX	50n	25n	250m	0.0	5.0	.80	2.0S	8.0m	0	7	A156	ML132
67	N74LS670F	4	4	S	BTX	50n	25n	250m	0.0	5.0	.80	2.0S	8.0m	0	7	A156	ML127m
68	S54LS670F	4	4	S	BTX	50n	25n	250m	0.0	5.0	.80	2.0S	4.0m	5	5	A156	ML127m
69	S54LS670W	4	4	S	BTX	50n	25n	250m	0.0	5.0	.80	2.0S	4.0m	5	5	A156	FL25
70	CD40108BD	4	4	S	MCX	110n	45n	500m	0.0	15	4.0	11	6.0m	5	5	PN24b	MO015AG
71	CD40108BE	4	4	S	MCX	110n	45n	500m	0.0	15	4.0	11	6.0m	5	5	PN24b	MO015AA
72	CD40208BD	4	4	S	MCX	170n	90n	500m	0.0	15	4.0	11	3.4m	5	5	A302	MO015AG
73	CD40208BE	4	4	S	MCX	170n	90n	500m	0.0	15	4.0	11	3.4m	5	5	A302	MO015AA
74	CD40208BF	4	4	S	MCX	170n	90n	500m	0.0	15	4.0	11	3.4m	5	5	A302	MO015AA
75	CD40208BH	4	4	S	MCX	170n	90n	500m	0.0	15	4.0	11	3.4m	5	5	A302	CH13
76	CD40208BK	4	4	S	MCX	170n	90n	500m	0.0	15	4.0	11	3.4m	5	5	A302	FL28
77	CD40108BP	4	4	S	MCX	200n	90n	500m	0.0	15	4.0	11	6.8m	5	5	A302	MO015AA
78	MC14580BAL	4	4	S	MCX	1.0u	800n	4.0u	0.0	10	3.0	7.0S	1.3m	4	8	A205	ML150a
79	MC14580BCL	4	4	S	MCX	1.5u	900n	4.0n	0.0	10	3.0	7.0S	1.1m	4	8	A205	ML150a
80	MC14580BCP	4	4	S	MCX	1.5u	900n	4.0n	0.0	10	3.0	7.0S	1.1m	4	8	A205	ML39
81#	HBC4036AD	4	8	S	MCA	200n	60n	200m	0.0	10	0.1%	4.99	250u%	5	5	A110	ML23b
82#	HBC4039AD	4	8	S	MCA	200n	60n	200m	0.0	10	0.1%	4.99	250u%	5	5	A111	ML23b
83#	HBC4039AK	4	8	S	MCA	200n	60n	20									

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 M O D E	4 S T R U C T U R E C O D E	5 M A X A C C E S S T I M E (s)	6 M A X W R I T E C Y C L E T I M E (s)	7 M A X O P E R. P O W E R D I S S. (W)	8 R A T E D P O W E R S P A N		9 I N P U T L O G I C L E V E L S		10 M I N O U T P U T S I N K C U R R E N T		11 M I N C L O C K F R E Q. (Hz)	12 O P E R. T E M P. R A N G E C O D E	13 D R A W I N G S	
		1 N O. W O R D S	2 B I T S P E R W O R D						N E G. (V)	P O S. (V)	M A X '0' (V)	M I N '1' (V)	A (A)	@ O U T (V)			L O G I C B L O C K	O U T L I N E
1	SM82	16	1	S	BTX	20n	25n	250m	0.0	5.0	1.0	2.1	40m	.45	0	7	A126	ML9
2	SM81	16	1	S	BTX	25n	25n	250m	0.0	5.0	.85	2.2	20m	.45	5	7	A126	ML9
3	SM83	16	1	S	BTX	25n	25n	250m	0.0	5.0	.85	2.2	20m	.45	0	7	A126	ML9
4	SN7481AJ	16	1	S	BTX	28n	20n	300m	0.0	5.0	.80	2.0	40m	.40	0	7	A27	ML66a
5	SN7481AN	16	1	S	BTX	28n	20n	300m	0.0	5.0	.80	2.0	40m	.40	0	7	A27	ML71
6	SN7484AJ	16	1	S	BTX	28n	20n	300m	0.0	5.0	.80	2.0	40m	.40	0	7	A67	ML61a
7	SN7484AN	16	1	S	BTX	28n	20n	300m	0.0	5.0	.80	2.0	40m	.40	0	7	A67	ML48
8	93407ADC	16	1	S	BTX	30n	25n	357m	0.0	5.0	.80	2.1	40m	.45	0	7	PN14b	TO116
9	93407AFC	16	1	S	BTX	30n	25n	357m	0.0	5.0	.80	2.1	40m	.45	0	7	PN14b	TO86
10	93407BDC	16	1	S	BTX	30n	25n	357m	0.0	5.0	.80	2.1	20m	.45	0	7	PN14b	TO116
11	93407BFC	16	1	S	BTX	30n	25n	357m	0.0	5.0	.80	2.1	20m	.45	0	7	PN14b	TO86
12	93407BDM	16	1	S	BTX	35n	25n	357m	0.0	5.0	.80	2.1	20m	.40	5	7	PN14b	TO116
13	93407BFM	16	1	S	BTX	35n	25n	357m	0.0	5.0	.80	2.1	20m	.40	5	7	PN14b	TO86
14	MC4004F	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	40m	.45	0	7	A27	TO86
15	MC4004L	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	40m	.45	0	7	A27	TO116
16	MC4004P	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	40m	.45	0	7	A27	ML38
17	MC4005F	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	20m	.45	0	7	A27	TO86
18	MC4005L	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	20m	.45	0	7	A27	TO116
19	MC4005P	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	20m	.45	0	7	A27	ML38
20	MC4304F	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	40m	.45	5	7	A27	TO86
21	MC4304L	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	40m	.45	5	7	A27	TO116
22	MC4305F	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	40m	.45	5	7	A27	TO86
23	MC4305L	16	1	S	BTX	35n	25n	250m	0.0	5.0	.45	2.5	20m	.45	5	7	A27	TO116
24	MC5484L	16	1	S	BTX	35n	60n	250m	0.0	5.0	.45	2.5	40m	.45	5	7	A67	ML5
25	SN5481AJ	16	1	S	BTX	40n	20n	300m	0.0	5.0	.80	2.0	20m	.40	5	7	A27	ML66a
26	SN5481AW	16	1	S	BTX	40n	20n	300m	0.0	5.0	.80	2.0	20m	.40	5	7	A27	MO004AA
27	SN5484AJ	16	1	S	BTX	40n	20n	300m	0.0	5.0	.80	2.0	20m	.40	5	7	A67	ML61a
28	SN5484AW	16	1	S	BTX	40n	20n	300m	0.0	5.0	.80	2.0	20m	.40	5	7	A67	MO004AG
29#	T7481B1	16	1	S	BTX	60n	25n	275m	0.0	5.0	.40	5.5	40m	.40	0	7	A84a	MO001AB
30#	T7484B1	16	1	S	BTX	60n	25n	275m	0.0	5.0	.40	5.5	40m	.40	0	7	A84	MO001AB
31#	TM101	16	4	S	BED	50n	35n	500m	0.0	5.0	.80	2.0	100uA	2.4	0	7	A155	ML394
32	27S02AJC	16	4	S	BED	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A382	ML280
33	27S02ANC	16	4	S	BED	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A382	ML281
34	27S03AJC	16	4	S	BED	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A382	ML280
35	27S03ANC	16	4	S	BED	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A382	ML281
36	AM27S02ADC	16	4	S	BED	25n	20n	500m	0.0	5.0	.80	2.0			0	7	A382	ML312a
37	AM27S02APC	16	4	S	BED	25n	20n	500m	0.0	5.0	.80	2.0			0	7	A382	ML89d
38	AM27S03ADC	16	4	S	BED	25n	20n	500m	0.0	5.0	.80	2.0			0	7	A382	ML312a
39	AM27S03APC	16	4	S	BED	25n	20n	500m	0.0	5.0	.80	2.0			0	7	A382	ML89d
40	27S02AFM	16	4	S	BED	30n	25n	525m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	FL49
41	27S02AJM	16	4	S	BED	30n	25n	525m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	ML280
42	27S03AFM	16	4	S	BED	30n	25n	525m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	FL49
43	27S03AJM	16	4	S	BED	30n	25n	525m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	ML280
44	AM27S02ADM	16	4	S	BED	30n	25n	525m	0.0	5.0	.80	2.0			5	7	A382	ML312a
45	AM27S02AFM	16	4	S	BED	30n	25n	525m	0.0	5.0	.80	2.0			5	7	A382	FL33b
46	AM27S03ADM	16	4	S	BED	30n	25n	525m	0.0	5.0	.80	2.0			5	7	A382	ML312a
47	AM27S03AFM	16	4	S	BED	30n	25n	525m	0.0	5.0	.80	2.0			5	7	A382	FL33b
48	27LS02AJC	16	4	S	BED	55n	45n	190m	0.0	5.0	.80	2.0	10m	.50	0	7	A382	ML280
49	27LS02ANC	16	4	S	BED	55n	45n	190m	0.0	5.0	.80	2.0	10m	.50	0	7	A382	ML281
50	27LS03AJC	16	4	S	BED	55n	45n	190m	0.0	5.0	.80	2.0	10m	.50	0	7	A382	ML280
51	27LS03ANC	16	4	S	BED	55n	45n	190m	0.0	5.0	.80	2.0	10m	.50	0	7	A382	ML281
52	AM27LS02DC	16	4	S	BED	55n	30n	175m	0.0	5.0	.80	2.0			0	7	A382	ML312a
53	AM27LS02PC	16	4	S	BED	55n	30n	175m	0.0	5.0	.80	2.0			0	7	A382	ML89d
54	AM27LS03DC	16	4	S	BED	55n	45n	175m	0.0	5.0	.80	2.0	8.0m	.45	0	7	A382	ML312a
55	AM27LS03PC	16	4	S	BED	55n	45n	175m	0.0	5.0	.80	2.0	8.0m	.45	0	7	A382	ML89d
56	27LS02AFM	16	4	S	BED	65n	55n	190m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	FL49
57	27LS02AJM	16	4	S	BED	65n	55n	190m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	ML280
58	27LS03AFM	16	4	S	BED	65n	55n	190m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	FL49
59	27LS03AJM	16	4	S	BED	65n	55n	190m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	ML280
60	AM27LS02DM	16	4	S	BED	65n	35n	190m	0.0	5.0	.80	2.0			5	7	A382	ML312a
61	AM27LS02FM	16	4	S	BED	65n	35n	190m	0.0	5.0	.80	2.0			5	7	A382	FL33b
62	AM27LS03DM	16	4	S	BED	65n	55n	190m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	ML312a
63	AM27LS03FM	16	4	S	BED	65n	55n	190m	0.0	5.0	.80	2.0	8.0m	.45	5	7	A382	FL33b
64	F100145DC	16	4	S	BEX	5.5n	4.0n	1.1	4.5	0.0	-1.4	-1.1			0	7	A345	ML133h
65	F100145FC	16	4	S	BEX	5.5n	4.0n	1.1	4.5	0.0	-1.4	-1.1			0	7	A345	FL48
66	10145F	16	4	S	BEX	8.5n	8.0n	754m	5.2	0.0	-1.6	-96			3	8	PN16o	ML127m
67	10145I	16	4	S	BEX	8.5n	8.0n	754m	5.2	0.0	-1.6	-96			3	8	PN16o	ML107
68	F10145ADC	16	4	S	BEX	9.0n	4.0n	650m	5.2	0.0	-1.4	-1.1			0	7	A318	ML157d
69	F10145AFC	16	4	S	BEX	9.0n	4.0n	650m	5.2	0.0	-1.4	-1.1			0	7	A318	FL14
70	F10145APC	16	4	S	BEX	9.0n	4.0n	650m	5.2	0.0	-1.4	-1.1			0	7	A318	ML170
71	F10545ADM	16	4	S	BEX	9.0n	4.0n	520m	5.2	0.0	-1.4	-1.1	50m		5	7	A318	ML127s
72	F10545AFM	16	4	S	BEX	9.0n	4.0n	520m	5.2	0.0	-1.4	-1.1	50m		5	7	A318	FL14j
73	95400DC	16	4	S	BEX	12n	9.0n	442m	5.2	0.0	-1.4	-1.1	50m		0	7	A81	ML15a
74#	GXB10145	16	4	S	BEX	13n	11n	780m	5.2	0.0	-1.4	-1.1	50m		3	8	PN16o	ML176
75	MCM10145F	16	4	S	BEX	15n	8.0n	650m	5.2	0.0	-1.4	-1.1	50m		0	7	A318	FL34
76	MCM10145L	16	4	S	BEX	15n	8.0n	650m	5.2	0.0	-1.4	-1.1	50m		0	7	A318	ML157a
77	MCM10545F	16	4	S	BEX	18n	8.0n	650m	5.2	0.0	-1.4	-1.1	50m		5	7	A318	FL34
78	MCM10																	

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1) No. WORDS (2) No. BITS / WORD
(3) MODE (4) STRUCT. (5) MAX ACC. TIME (6) TYPE No.

LINE No.	TYPE No.	ORGANIZATION				MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT @ (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE		DRAWINGS	
		1 No. WORDS	2 BITS PER WORD	3 MODE	4 STRUCTURE CODE				NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	(V)		-	+	LOGIC / BLOCK	OUTLINE
1	C3101ADM	16	4	S	BTD	17n	25n	500m	0.0	5.0	.70	2.0	3.6m	.30	5	C		MO2	
2	54F189DM	16	4	S	BTD	20n	20n		0.0	5.0					5	C	A516	ML389d	
3	54F189FM	16	4	S	BTD	20n	20n		0.0	5.0					5	C	A516	FL14j	
4	54F289DM	16	4	S	BTD	20n	20n		0.0	5.0					5	C	A516	ML389d	
5	54F289FM	16	4	S	BTD	20n	20n		0.0	5.0					5	C	A516	FL14j	
6	74F189DC	16	4	S	BTD	20n	20n		0.0	5.0					0	7	A516	ML389d	
7	74F189FC	16	4	S	BTD	20n	20n		0.0	5.0					0	7	A516	FL14j	
8	74F189PC	16	4	S	BTD	20n	20n		0.0	5.0					0	7	A516	ML261	
9	74F289DC	16	4	S	BTD	20n	20n		0.0	5.0					0	7	A516	ML389d	
10	74F289FC	16	4	S	BTD	20n	20n		0.0	5.0					0	7	A516	FL14j	
11	74F289PC	16	4	S	BTD	20n	20n		0.0	5.0					0	7	A516	ML261	
12	AM27S02DC	16	4	S	BTD	22n	25n	525m	0.0	5.0	.80	2.0	16m	.45	0	7	A388a	ML127k	
13	AM27S02DM	16	4	S	BTD	22n	25n	525m	0.0	5.0	.80	2.0	16m	.45	5	C	A388a	ML62c	
14	AM27S02FM	16	4	S	BTD	22n	25n	525m	0.0	5.0	.80	2.0	16m	.45	5	C	A388a	FL33b	
15	AM27S02PC	16	4	S	BTD	22n	25n	525m	0.0	5.0	.80	2.0	16m	.45	0	7	A388a	ML89a	
16	AM27S03DC	16	4	S	BTD	22n	25n	625m	0.0	5.0	.80	2.0	16m	.45	0	7	A388a	ML127k	
17	AM27S03DM	16	4	S	BTD	22n	25n	625m	0.0	5.0	.80	2.0	16m	.45	5	C	A388a	ML62c	
18	AM27S03FM	16	4	S	BTD	22n	25n	625m	0.0	5.0	.80	2.0	16m	.45	5	C	A388a	FL33b	
19	AM27S03PC	16	4	S	BTD	22n	25n	625m	0.0	5.0	.80	2.0	16m	.45	0	7	A388a	ML89a	
20	AM3101ADC	16	4	S	BTD	22n	95n	525m	0.0	5.0	.80	2.0	16m	.45	0	7	A388a	ML62	
21	AM3101ADM	16	4	S	BTD	22n	25n	525m	0.0	5.0	.80	2.0	16m	.45	5	C	A388a	ML62c	
22	AM3101AFM	16	4	S	BTD	22n	25n	525m	0.0	5.0	.80	2.0	16m	.45	5	C	A388a	FL33b	
23	AM3101APC	16	4	S	BTD	22n	95n	525m	0.0	5.0	.80	2.0	16m	.45	0	7	A388a	ML89a	
24	29700JC	16	4	S	BTD	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A385	ML280	
25	29700NC	16	4	S	BTD	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A385	ML281	
26	29701JC	16	4	S	BTD	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A385	ML280	
27	29701NC	16	4	S	BTD	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A385	ML281	
28	29702JC	16	4	S	BTD	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A385a	ML280	
29	29702NC	16	4	S	BTD	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A385a	ML281	
30	29703JC	16	4	S	BTD	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A385a	ML280	
31	29703NC	16	4	S	BTD	25n	20n	525m	0.0	5.0	.80	2.0	10m	.50	0	7	A385a	ML281	
32	SN54S189J	16	4	S	BTD	25n	25n	550m	0.0	5.0	.80	2.0			5	C	A388a	ML2	
33	SN54S189W	16	4	S	BTD	25n	25n	550m	0.0	5.0	.80	2.0			5	C	A388a	FL2	
34	SN54S289J	16	4	S	BTD	25n	25n	550m	0.0	5.0	.80	2.0			5	C	A388a	ML2	
35	SN54S289W	16	4	S	BTD	25n	25n	550m	0.0	5.0	.80	2.0			5	C	A388a	FL2	
36	SN74S189J	16	4	S	BTD	25n	25n	550m	0.0	5.0	.80	2.0			0	7	A388a	ML2	
37	SN74S189N	16	4	S	BTD	25n	25n	550m	0.0	5.0	.80	2.0			0	7	A388a	ML2	
38	SN74S289J	16	4	S	BTD	25n	25n	550m	0.0	5.0	.80	2.0			0	7	A388a	ML2	
39	SN74S289N	16	4	S	BTD	25n	25n	550m	0.0	5.0	.80	2.0			0	7	A388a	ML2	
40	75568J	16	4	S	BTD	30n	20n	500m	0.0	5.0	.80	2.0	16m	.50	5	C	A294	ML278	
41	3101E	16	4	S	BTD	30n	25n	525m	0.0	5.0	.85	1.8	16m	.45	0	7	A132	ML62	
42	29700FM	16	4	S	BTD	30n	25n	525m	0.0	5.0	.80	2.0	10m	.50	5	C	A385	FL49	
43	29700JM	16	4	S	BTD	30n	25n	525m	0.0	5.0	.80	2.0	10m	.50	5	C	A385	ML280	
44	29701FM	16	4	S	BTD	30n	25n	525m	0.0	5.0	.80	2.0	10m	.50	5	C	A385	FL49	
45	29701JM	16	4	S	BTD	30n	25n	525m	0.0	5.0	.80	2.0	10m	.50	5	C	A385	ML280	
46	29702FM	16	4	S	BTD	30n	25n	525m	0.0	5.0	.80	2.0	10m	.50	5	C	A385a	FL49	
47	29702JM	16	4	S	BTD	30n	25n	525m	0.0	5.0	.80	2.0	10m	.50	5	C	A385a	ML280	
48	29703FM	16	4	S	BTD	30n	25n	525m	0.0	5.0	.80	2.0	10m	.50	5	C	A385a	FL49	
49	29703JM	16	4	S	BTD	30n	25n	525m	0.0	5.0	.80	2.0	10m	.50	5	C	A385a	ML280	
50	31013E	16	4	S	BTD	30n	25n	525m	0.0	5.0	.90	1.7	16m	.45	5	C	A132	ML62	
51	74S189DC	16	4	S	BTD	35n	20n	550m	0.0	5.0	.80	2.0	16m	.45	0	7	PN16bc	ML157e	
52	74S189FC	16	4	S	BTD	35n	20n	550m	0.0	5.0	.80	2.0	16m	.45	0	7	PN16bc	FL14j	
53	74S189PC	16	4	S	BTD	35n	20n	550m	0.0	5.0	.80	2.0	16m	.45	0	7	PN16bc	ML170	
54	74S289DC	16	4	S	BTD	35n	20n	525m	0.0	5.0	.80	2.0	16m	.45	0	7	PN16bc	ML157e	
55	74S289FC	16	4	S	BTD	35n	20n	525m	0.0	5.0	.80	2.0	16m	.45	0	7	PN16bc	FL14j	
56	74S289PC	16	4	S	BTD	35n	20n	525m	0.0	5.0	.80	2.0	16m	.45	0	7	PN16bc	ML170	
57	6560D	16	4	S	BTD	35n	25n	525m	0.0	5.0	.80	2.0	15m	.50	0	7	A155	ML158	
58	C3101A	16	4	S	BTD	35n	25n	525m	0.0	5.0	.80	2.0	16m	.45	0	7	A388a	ML358	
59	D3101A	16	4	S	BTD	35n	25n	525m	0.0	5.0	.85	2.0	15m	.45	0	7	PN16a	ML359	
60	N74S189F	16	4	S	BTD	35n	25n	550m	0.0	5.0	.80	2.0	16m	.45	0	7	A73	ML127r	
61	N74S189N	16	4	S	BTD	35n	25n	550m	0.0	5.0	.80	2.0	16m	.45	0	7	A73	ML132	
62	N3101AB	16	4	S	BTD	35n	25n	525m	0.0	5.0	.85	2.0	16m	.45	0	7	A155	ML132	
63	N3101AF	16	4	S	BTD	35n	25n	525m	0.0	5.0	.85	2.0	16m	.45	0	7	A73	ML127r	
64	N3101AN	16	4	S	BTD	35n	25n	525m	0.0	5.0	.85	2.0	16m	.45	0	7	A73	ML132	
65	P3101A	16	4	S	BTD	35n	25n	525m	0.0	5.0	.85	2.0	15m	.45	0	7	PN16a	ML361	
66	SFC80101AK	16	4	S	BTD	35n	25n	525m	0.0	5.0	.85	2.0	15m	.45	0	8	PN16a	ML139	
67	54LS189DM	16	4	S	BTD	37n	25n	200m	0.0	5.0	.70	2.0	4.0m	.40	5	C	PN16bc	ML157e	
68	54LS189FM	16	4	S	BTD	37n	25n	200m	0.0	5.0	.70	2.0	4.0m	.40	5	C	PN16bc	FL14j	
69	54LS289DM	16	4	S	BTD	37n	25n	200m	0.0	5.0	.70	2.0	4.0m	.40	5	C	PN16bc	ML157e	
70	54LS289FM	16	4	S	BTD	37n	25n	200m	0.0	5.0	.70	2.0	4.0m	.40	5	C	PN16bc	FL14j	
71	74LS189DC	16	4	S	BTD	37n	25n	200m	0.0	5.0	.80	2.0	8.0m	.50	0	7	PN16bc	ML157e	
72	74LS189FC	16	4	S	BTD	37n	25n	200m	0.0	5.0	.80	2.0	8.0m	.50	0	7	PN16bc	FL14j	
73	74LS189PC	16	4	S	BTD	37n	25n	200m	0.0	5.0	.80	2.0	8.0m	.50	0	7	PN16bc	ML170	
74	74LS289DC	16	4	S	BTD	37n	25n	200m	0.0	5.0	.80	2.0	8.0m	.50	0	7	PN16bc	ML157e	
75	74LS289FC	16	4	S	BTD	37n	25n	200m	0.0	5.0	.80	2.0	8.0m	.50	0	7	PN16bc	FL14j	
76	74LS289PC	16	4	S	BTD	37n	25n	200m	0.0	5.0	.80	2.0	8.0m	.50	0	7	PN16bc	ML170	
77	85568N	16	4	S	BTD	40n	20n	500m	0.0	5.0	.80	2.0	16m	.45	0	7	A294	ML279	
78	DM85S68D	16	4	S	BTD	40n	20n	500m	0.0	5.0	.80	2.0	16m	.45	0	7	A294	ML115a	
79	DM85S68N	16	4	S	BTD	40n	20n	500m	0.0	5.0	.80	2.0	16m	.45	0	7	A294	ML196	
80	54S189FM	16	4	S	BTD	50n	20n	550m	0.0	5.0	.80	2.0	16m	.50	5	C	PN16bc	FL14j	
81	54S289DM	16	4	S	BTD	50n	20n	525m	0.0	5.0	.80	2.0	16m	.50	5	C	PN16bc	ML157e	
82	54S289FM	16	4	S	BTD	50n	20n	525m	0.0	5.0									

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT (A)	MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS			
		1	2						NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)				LOGIC/BLOCK	OUTLINE		
																		No. WORDS	PER WORD
1#	SFC80101K	16	4	S	BTD	60n#	45n#	525m	0.0	5.0	.85	2.0	15m	.45	0	8	PN139	ML139	
2	SN5489J	16	4	S	BTD	60n#	40n#	525m	0.0	5.0	.80	2.0	16m	.45	5	C	A132	ML26c	
3	SN5489W	16	4	S	BTD	60n#	40n#	525m	0.0	5.0	.80	2.0	16m	.45	5	C	A132	FL33	
4	AM31L01DM	16	4	S	BTD	70n#	100n#	175m	0.0	5.0	.70	2.0	4.8m	.40	5	C	A132	ML62	
5	AM31L01FM	16	4	S	BTD	70n#	135n#	175m	0.0	5.0	.70	2.0	4.8m	.40	5	C	A132	FL33	
6	AM31L01PC	16	4	S	BTD	70n#	135n#	175m	0.0	5.0	.70	2.0	4.8m	.40	0	7	A132	ML89a	
7	5560J	16	4	S	BTD	75n	50n#	525m	0.0	5.0	.80	2.0Δ	10m	.50	5	C	A155	FL49	
8	5560F	16	4	S	BTD	75n	50n#	525m	0.0	5.0	.80	2.0Δ	10m	.50	5	C	A155	ML280	
9	5561F	16	4	S	BTD	75n	50n#	625m	0.0	5.0	.80	2.0#	10m	.50	5	C	A155	FL49	
10	5561J	16	4	S	BTD	75n	50n#	625m	0.0	5.0	.80	2.0#	10m	.50	5	C	A155	ML280	
11	L6560N	16	4	S	BTD	100n	80n#	240m	0.0	5.0	.80	2.0Δ	4.8m	.50	0	7	A155	ML281	
12	L6561N	16	4	S	BTD	100n	80n#	240m	0.0	5.0	.80	2.0Δ	4.8m	.50	0	7	A155	ML281	
13	AM31L01E	16	4	S	BTD	105n	80n	200m	0.0	5.0	.70	2.0	3.6m	.30	0	7		MOZ	
14	AM31L013E	16	4	S	BTD	105n	80n	200m	0.0	5.0	.70	2.0	3.6m	.30	5	C		MOZ	
15	L5560F	16	4	S	BTD	120n	125n#	270m	0.0	5.0	.80	2.0Δ	4.8m	.50	5	C	A155	FL49	
16	L5560J	16	4	S	BTD	120n	125n#	270m	0.0	5.0	.80	2.0Δ	4.8m	.50	5	C	A155	ML280	
17	L5561F	16	4	S	BTD	120n	125n#	270m	0.0	5.0	.80	2.0#	4.8m	.50	5	C	A155	FL49	
18	L5561J	16	4	S	BTD	120n	125n#	270m	0.0	5.0	.80	2.0#	4.8m	.50	5	C	A155	ML280	
19#	M53289P	16	4	S	BTX	50n#	40n#	375m	0.0	5.0	.80	2.0	12m	.40	0	7	A68	ML5a	
20	N7489B	16	4	S	BTX	50n#	40n#	550m	0.0	5.0	.80%	2.0	16m	.40	0	7	A73	ML85	
21	N8225B	16	4	S	BTX	50n#	40n#	550m	0.0	5.0	.40%		16m	.40	0	7	A73	ML89a	
22	N8225F	16	4	S	BTX	50n#	40n#	550m	0.0	5.0	.40%		16m	.40	0	7	A73	ML60a	
23	N8225W	16	4	S	BTX	50n#	40n#	550m	0.0	5.0	.40%		16m	.40	0	7	A73	FL25	
24	5489DM	16	4	S	BTX	60n#	40n#	525m	0.0	5.0	.80	2.0Δ	12m	.40	5	C	A184	ML127e	
25	5489FM	16	4	S	BTX	60n#	40n#	525m	0.0	5.0	.80	2.0Δ	12m	.40	5	C	A184	FL14g	
26	7489DC	16	4	S	BTX	60n#	40n#	525m	0.0	5.0	.80	2.0Δ	12m	.40	0	7	A184	ML127e	
27	7489FC	16	4	S	BTX	60n#	40n#	525m	0.0	5.0	.80	2.0Δ	12m	.40	0	7	A184	FL14g	
28	7489PC	16	4	S	BTX	60n#	40n#	525m	0.0	5.0	.80	2.0Δ	12m	.40	0	7	A184	ML170	
29	93403DC	16	4	S	BTX	60n#	45n#	577m	0.0	5.0	.85	2.0	16m	.45	0	7	PN16bb	ML15a	
30#	FLQ101-7489	16	4	S	BTX	60n	40n*	525m	0.0	5.0	.80	2.0	16m	.45	0	7	A305	MLZ	
31#	FLQ105-8489	16	4	S	BTX	60n	40n*	525m	0.0	5.0	.80	2.0	16m	.45	2	8	A305	MLZ	
32#	T165D1	16	4	S	BTX	60n	40n*	6.0m%	0.0	5.0	.85	2.0	15m	.45	0	8	A176	ML127d	
33	L5560D	16	4	S	BTX	100n	100n#	125m	0.0	5.0	.80	2.0	4.8m	.50	5	C	A155	ML158	
34	AM31L01DC	16	4	S	BXD	70n#	100n	175m	0.0	5.0	.70	2.0	4.8m	.40	0	7	A132	ML62	
35	SCM5589C	16	4	S	MCA	300n#	500n#		0.0	10	3.0	7.0	1.3m	.50	5	C	A155	ML127t	
36	SCM5589E	16	4	S	MCA	300n#	500n#		0.0	10	3.0	7.0	1.3m	.50	4	8	A155	ML127u	
37	SCM5589H	16	4	S	MCA	300n#	500n#		0.0	10	3.0	7.0	1.3m	.50	5	C	A155	CHZ	
38#	MM54C89J	16	4	S	MCA	650n	300n#	4.5m	0.0	5.0	1.5	3.5#	17m	.50	5	C	A182	ML1e	
39#	MM74C89J	16	4	S	MCA	650n	300n#	4.5m	0.0	5.0	1.5	3.5#	17m	.50	4	8	A182	ML1e	
40	MM74C89N	16	4	S	MCA	650n	300n#	4.5m	0.0	5.0	1.5	3.5#	17m	.50	4	8	A182	ML1e	
41	34725DC	16	4	S	MCX	70n#	100n#	300u	0.0	10	3.0	7.0#	1.2m	.50	4	8	A269	ML127s	
42	34725DM	16	4	S	MCX	70n#	100n#	300u	0.0	10	3.0	7.0#	1.2m	.50	5	C	A269	ML127s	
43	34725FC	16	4	S	MCX	70n#	100n#	300u	0.0	10	3.0	7.0#	1.2m	.50	4	8	A269	FL14g	
44	34725FM	16	4	S	MCX	70n#	100n#	300u	0.0	10	3.0	7.0#	1.2m	.50	5	C	A269	FL14g	
45	34725PC	16	4	S	MCX	70n#	100n#	300u	0.0	10	3.0	7.0#	1.2m	.50	4	8	A269	ML170	
46	4725BDC	16	4	S	MCX	196n#	72n#	3.0m	0.0	10	3.0	7.0#	1.2m	.50	4	8	A343	ML157e	
47	4725BDM	16	4	S	MCX	196n#	72n#	3.0m	0.0	10	3.0	7.0#	1.2m	.50	5	C	A343	ML157e	
48	4725BFC	16	4	S	MCX	196n#	72n#	3.0m	0.0	10	3.0	7.0#	1.2m	.50	4	8	A343	FL14j	
49	4725BFM	16	4	S	MCX	196n#	72n#	3.0m	0.0	10	3.0	7.0#	1.2m	.50	5	C	A343	FL14j	
50	4725BPC	16	4	S	MCX	196n#	72n#	3.0m	0.0	10	3.0	7.0#	1.2m	.50	4	8	A343	ML170	
51#	MM54C89J	16	4	S	MCX	500n#	140n#	500m	0.0	5.0	.80	3.5#			5	C	A182	MLZ	
52#	MM74C89J	16	4	S	MCX	500n#	140n#	500m	0.0	5.0	.80	3.5#			4	8	A182	MLZ	
53#	MM74C89N	16	4	S	MCX	500n#	140n#	500m	0.0	5.0	.80	3.5#			4	8	A182	MLZ	
54	CD40114BD	16	8	S	MCX	650n	300n#	500m	0.5	20	#	1.5	2.5	3.0m	1.5	4	8	A496	MO001Aa
55	CD40114BE	16	8	S	MCX	650n	300n#	500m	0.5	20	#	1.5	2.5	3.0m	1.5	4	8	A496	MO001Aa
56	CD40114BF	16	8	S	MCX	650n	300n#	500m	0.5	20	#	1.5	2.5	3.0m	1.5	5	C	A496	MO001Aa
57	CD40114BH	16	8	S	MCX	650n	300n#	500m	0.5	20	#	1.5	2.5	3.0m	1.5	5	C	A496	MO001Aa
58	N82S21B	32	2	S	BTD	50n	15n#	480m	0.0	5.2	.85	2.0	32m	.45	0	7	A92	ML85	
59#	RC82S21F	32	2	S	BTD	50n	15n#	835m	0.0	5.5					5	C	A92	ML127r	
60	S82S21F	32	2	S	BTD	50n	15n#	835m	0.0	5.5					5	C	A92	ML127r	
61	N82S21F	32	2	S	BTX	50n	60n	650m	0.0	5.0	.85	2.0Δ	32m	.45	0	7	A92	ML127r	
62	N82S21N	32	2	S	BTX	50n	60n	650m	0.0	5.0	.85	2.0Δ	32m	.45	0	7	A92	ML132	
63	SCP1824	32	8	S	MCG	200n#		5.0m	0.0	10	.01%	9.99			5	C	A500	MLZ	
64#	CDP1824CE	32	8	S	MCG	300n#	200n#		0.0	6.5	1.5	3.5#	1.8m	0.4	4	8	A498	ML295	
65#	CDP1824E	32	8	S	MCG	300n#	200n#		0.0	10	1.5	3.5#	1.8m	0.4	5	C	A498	ML295	
66	SCP1824L	32	8	S	MCG	400n#		2.5m	0.0	5.0	.01%	4.99			5	C	A500	MLZ	
67	SCP1824C	32	8	S	MCX	200n#	200n	6.0m	0.0	10	3.0	7.0	3.6m	10	5	C	PN18d	MLZ	
68	SCP1824E	32	8	S	MCX	200n#	200n	6.0m	0.0	10	3.0	7.0	3.6m	10	4	8	PN18d	MLZ	
69	CDP1824CD	32	8	S	MCX	400n#	200n#	500m	0.5	7.0	#	.01	4.9	1.6m	.40	5	C	A498	ML25a
70	CDP1824D	32	8	S	MCX	400n#	200n#	500m	0.5	15	#	.01	4.9	1.6m	.40	5	C	A498	ML25a
71	SCP1824LC	32	8	S	MCX	400n#	400n	1.0m	0.0	5.0	1.5	3.5	2.2m	5.0	5	C	PN18d	MLZ	
72	SCP1824LE	32	8	S	MCX	400n#	400n	1.0m	0.0	5.0	1.5	3.5	2.2m	5.0	4	8	PN18d	MLZ	
73	MCM10548F	64	1	S	BEX			520m	5.2	0.0	-1.4	-1.1	50m		5	C	A422	FL34	
74	MCM10548L	64	1	S	BEX			520m	5.2	0.0	-1.4	-1.1	50m		5	C	A422	ML372	
75	10142F	64	1	S	BEX	10n#	3.5n#	520m	5.2	0.0	-1.6%	-96			3	8	A175a	ML127m	
76	10142I	64	1	S	BEX	10n#	3.5n#	520m	5.2	0.0	-1.6%	-96			3	8	A175a	ML107	
77#	GXB10142	64	1	S	BEX	10n#	10n#	520m	5.2	0.0	-1.4	-1.1	50m		0	7	A175a		
78	MCM10148F	64	1	S	BEX	10n#	8.0n#	420m	5.2	0.0	-1.7	-0.9	50m		0	7	A422	FL34	
79	MCM10148L	64	1	S	BEX	10n#	8.0n#	420m	5.2	0.0	-1.7	-0.9	50m		0	7	A422	ML372	
80	SN10142JE	64	1	S	BEX	10n	10n#	520m	5.2	0.0	-1.6	-98							

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION			STRUCTURE CODE	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		No. WORDS	BITS PER WORD	MODE					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)			LOGIC/BLOCK	OUTLINE
1#	N82S09AI	64	9	S	BTD	35n	35n	1.3m†	0.0	5.0	85	2.0Δ	8.0m	.50	0	7	A396	ML218b
2#	N82S09AN	64	9	S	BTD	35n	35n	950m	0.0	5.0	85	2.0Δ	8.0m	.50	0	7	A396	ML290
3#	N82S19F	64	9	S	BTD	35n	20n*	1.3m*	0.0	5.0	85	2.0Δ	40uΔ	5.5	0	7	A396	MLZ
4	N82S19N	64	9	S	BTD	35n	20n*	1.3m*	0.0	5.0	85	2.0Δ	40uΔ	5.5	0	7	A396	ML218
5	N82S09I	64	9	S	BTD	45n	45n	1.3m†	0.0	5.0	85	2.0Δ	6.4m	.50	0	7	A396	ML290
6#	N82S09N	64	9	S	BTD	45n	35n*	950m	0.0	5.0	85	2.0Δ	6.4m	.50	0	7	A396	ML218b
7#	S82S09AI	64	9	S	BTD	55n	55n	1.0	0.0	5.0	80	2.2Δ	8.0m	.50	5	C	A396a	ML218b
8	S82S09I	64	9	S	BTD	80n	75n	1.3m†	0.0	5.0	80	2.2Δ	6.4m	.50	5	C	A396	ML218b
9	S82S09N	64	9	S	BTD	80n	50n*	1.0	0.0	5.0	80	2.2Δ	6.4m	.50	5	C	A396	ML290
10	93419DC	64	9	S	BTX	45n	35n*	725m†	0.0	5.0	80	2.1Δ	8.0m	.50	0	7	A194	ML192
11	93419DM	64	9	S	BTX	60n	45n*	725m†	0.0	5.0	80	2.1Δ	8.0m	.50	5	C	A194	ML192
12	IM6512A-IDN	64	12	S	MCG	150n	245n	5.0m	0.0	10	2.0	7.0Δ	1.0uΔ		4	8	A286	ML134e
13	IM6512A-IJN	64	12	S	MCG	150n	245n	5.0m	0.0	10	2.0	7.0Δ	1.0uΔ		5	5	A286	ML226a
14	IM6512A-MDN	64	12	S	MCG	150n	245n	5.0m	0.0	10	2.0	7.0Δ	1.0uΔ		5	5	A286	ML134e
15	IM6512A-MFN	64	12	S	MCG	150n	245n	5.0m	0.0	10	2.0	7.0Δ	1.0uΔ		5	5	A286	FL46
16	IM6512A-MJN	64	12	S	MCG	150n	245n	5.0m	0.0	10	2.0	7.0Δ	1.0uΔ		5	5	A286	ML226a
17	IM6512IDN	64	12	S	MCG	460n	760n	500u	0.0	5.0	80	3.0Δ	2.0m	.45	4	8	A286	ML134e
18	IM6512IJN	64	12	S	MCG	460n	760n	500u	0.0	5.0	80	3.0Δ	2.0m	.45	4	8	A286	ML226a
19	IM6512MDN	64	12	S	MCG	460n	760n	500u	0.0	5.0	80	3.0Δ	2.0m	.45	5	5	A286	ML134e
20	IM6512MFN	64	12	S	MCG	460n	760n	500u	0.0	5.0	80	3.0Δ	2.0m	.45	5	5	A286	FL46
21	IM6512MJN	64	12	S	MCG	460n	760n	500u	0.0	5.0	80	3.0Δ	2.0m	.45	5	5	A286	ML226a
22	IM6512CJN	64	12	S	MCG	600n	995n	4.0m	0.0	5.0	80	3.5Δ	1.6m	.45	0	7	A286	ML226a
23#	MN1114	64	64	S	MXX	450n			0.0	5.0	80	2.4		3	7	A448	ML365	
24	IM4116-2CDE	128	%	D	MNG	150n	375 *Δ	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML395
25	IM4116-2CJE	128	%	D	MNG	150n	375 *Δ	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML395
26	IM4116-2CPE	128	%	D	MNG	150n	375 *Δ	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML399
27	IM4116-3CDE	128	%	D	MNG	200n	375nΔ*	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML395
28	IM4116-3CJE	128	%	D	MNG	200n	375nΔ*	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML395
29	IM4116-3CPE	128	%	D	MNG	200n	375nΔ*	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML399
30	IM4116-4CDE	128	%	D	MNG	250n	515 *Δ*	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML395
31	IM4116-4CJE	128	%	D	MNG	250n	515 *Δ*	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML395
32	IM4116-4CPE	128	%	D	MNG	250n	515 *Δ*	1.0	5	12	80	2.4Δ	10uΔ		0	7	A351	ML399
33	MCM10547F	128	1	S	BEX			520m	5.2	0.0	-1.4	-1.1	50mZ		5	C	A421	FL34
34	MCM10547L	128	1	S	BEX			520m	5.2	0.0	-1.4	-1.1	50mZ		5	C	A421	ML372
35	MCM10147F	128	1	S	BEX	10n†	8.0n	420m	5.2	0.0	-1.7	-0.9	50m#		0	7	A421	FL34
36	MCM10147L	128	1	S	BEX	10n†	8.0n	420m	5.2	0.0	-1.7	-0.9	50m#		0	7	A421	ML372
37#	GXB10147A	128	1	S	BEX	12n∅	8.0n	520m#	5.2	0.0	-1.4	-1.1			0	8	A136	ML140d
38	F10405DC	128	1	S	BEX	15n	8.0n	468m	5.2	0.0	-1.4	-1.1			0	7	A128	ML1k
39	F10405FC	128	1	S	BEX	15n	8.0n	468m	5.2	0.0	-1.4	-1.1			0	7	A128	FL14
40	SN10147JE	128	1	S	BEX	15n	8.0n	520m	5.2	0.0	-1.6	-0.98			0	8	A180	ML140b
41	S68B10	128	8	S	BNG	250n	250n*	400m	0.0	5.0			1.0m	.40	0	7	A457	MLZ
42	S68A10	128	8	S	BNG	360n	360n*	400m	0.0	5.0			1.0m	.40	0	7	A457	MLZ
43#	CDP1823CD	128	8	S	MCS	275n†	400n*		0.6	6.5	1.5	3.5Δ	2.0m	0.4	5	C	A525	
44#	CDP1823CE	128	8	S	MCS	275n†	400n*		0.6	6.5	1.5	3.5Δ	2.0m	0.4	4	8	A525	MO015AA
45#	CDP1823D	128	8	S	MCS	275n†	400n*		0.0	10	1.5	3.5Δ	2.0m	0.4	5	C	A525	
46#	CDP1823E	128	8	S	MCS	275n†	400n*		0.0	10	1.5	3.5Δ	2.0m	0.4	4	8	A525	MO015AA
47	MCM6810ACL1	128	8	S	MNG			400m	0.0	5.0	0.8	2.0			4	8	A384	ML256
48	MCM6810ACL	128	8	S	MNG			400m	0.0	5.0	0.8	2.0			4	8	A384	ML256
49	MCM6810AL1	128	8	S	MNG			400m	0.0	5.0	0.8	2.0			0	6	A384	ML256
50	MCM6810AL	128	8	S	MNG			350m	0.0	5.0	0.8	2.0			0	6	A384	ML256
51	MCM6810AP1	128	8	S	MNG			400m	0.0	5.0	0.8	2.0			0	6	A384	ML133
52	MCM6810AP	128	8	S	MNG			350m	0.0	5.0	0.8	2.0			0	6	A384	ML133
53	MCM6810CJCS	128	8	S	MNG			420m	0.0	5.0	0.8	2.0Δ			5	C	A384	DLZ
54	MCM68B10L	128	8	S	MNG	250n	250n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	0	7	A384	ML320
55	MCM68B10P	128	8	S	MNG	250n	250n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	0	7	A384	ML39
56	S6810A-1	128	8	S	MNG	350n	350n*	400m	0.0	5.0	0.8	2.0	1.6m	.40	0	7	A223	ML34g
57#	HM468A10	128	8	S	MNG	360n	360n*	350m	0.0	5.0	0.8	2.0	1.6m	.40	2	7	A223	ML287
58#	HM468A10P	128	8	S	MNG	360n	360n*	350m	0.0	5.0	0.8	2.0	1.6m	.40	2	7	A223	ML288
59	MCM68A10CL	128	8	S	MNG	360n	360n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	4	8	A384	ML320
60	MCM68A10CP	128	8	S	MNG	360n	360n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	4	8	A384	ML39
61	MCM68A10L	128	8	S	MNG	360n	360n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	0	7	A384	ML320
62	MCM68A10P	128	8	S	MNG	360n	360n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	0	7	A384	ML39
63#	HM46810	128	8	S	MNG	450n	450n*	350m	0.0	5.0	0.8	2.0	1.6m	.40	2	7	A223	ML287
64#	HM46810P	128	8	S	MNG	450n	450n*	350m	0.0	5.0	0.8	2.0	1.6m	.40	2	7	A223	ML288
65	MCM6810BJCS	128	8	S	MNG	450n	450n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	5	C	A384	MLZ
66	MCM6810CL	128	8	S	MNG	450n	450n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	4	8	A384	ML320
67	MCM6810CP	128	8	S	MNG	450n	450n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	4	8	A384	ML39
68	MCM6810L	128	8	S	MNG	450n	450n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	0	7	A384	ML320
69	MCM6810P	128	8	S	MNG	450n	450n*	500m	0.0	5.0	0.8	2.0Δ	1.6m	.40	0	7	A384	ML39
70	S6810A	128	8	S	MNG	450n	450n*	350m	0.0	5.0	0.8	2.0	1.6m	.40	0	7	A223	ML34g
71#	MN1101	128	9	S	MCG	500n	500n*	50m	0.0	5.0	.60	2.4			0	7	A437	ML162a
72#	RC54S201F	256	1	S	BTD	70n	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	A243	ML127r
73#	RC54S301F	256	1	S	BTD	70n	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	A243	ML127r
74	MCM10552F	256	1	S	BEX			676m	5.2	0.0	-1.4	-1.1	50mZ		5	C	A165	FL34
75	MCM10552L	256	1	S	BEX			676m	5.2	0.0	-1.4	-1.1	50mZ		5	C	A165	ML372
76#	HM10414-1	256	1	S	BEX	6.0n†	6.0n	520m	5.2	0.0	-1.4	-1.1	30mZ		0	7	A150	ML89
77	F10414DC	256	1	S	BEX	7.0n†	6.0n	520m	5.2	0.0	-1.4	-1.1	30mZ		0	7	A150	ML1k
78	F10414FC	256	1	S	BEX	7.0n†	6.0n	520m	5.2	0.0	-1.4	-1.1	30mZ		0	7	A150	FL14
79	F100414DC	256	1	S	BEX	7.0n†	6.0n	520m	5.2	0.0	-1.4	-1.1	30mZ		0	8	A150	ML1k
80	F100414FC	256	1	S	BEX	7.0n†	6.0n	520m	5.2	0.0	-1.4	-1.1	30mZ		0	8	A150	FL14

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION				MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		1 No. WORDS	2 BITS PER WORD	3 MODE	4 STRUCTURE CODE				NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	(V)			LOGIC/BLOCK	OUTLINE
1	SN74S201J	256	1	S	BTD	65nTΔ	700m	0.0	5.0	0.8	2.0s							
2	SN74S201N	256	1	S	BTD	65nTΔ	700m	0.0	5.0	0.8	2.0s							
3	SN74S301J	256	1	S	BTD	65nTΔ	700m	0.0	5.0	0.8	2.0							
4	SN74S301N	256	1	S	BTD	65nTΔ	700m	0.0	5.0	0.8	2.0							
5	SN54LS202J	256	1	S	BTD	35nT∅	15nT∅	275mT	0.0	5.0	.80	2.0s	16m	.50			PN16aj	ML61a
6	SN54LS202W	256	1	S	BTD	35nT∅	15nT∅	275mT	0.0	5.0	.80	2.0s	16m	.50			PN16aj	MO004AG
7	SN54LS302J	256	1	S	BTD	35nT∅	15nT∅	275mT	0.0	5.0	.80	2.0Δ	16m	.50			PN16aj	ML61a
8	SN54LS302W	256	1	S	BTD	35nT∅	15nT∅	275mT	0.0	5.0	.80	2.0Δ	16m	.50			PN16aj	MO004AG
9	SN74LS202J	256	1	S	BTD	35nT∅	15nT∅	275mT	0.0	5.0	.80	2.0s	16m	.45			PN16aj	ML61a
10	SN74LS202N	256	1	S	BTD	35nT∅	15nT∅	275mT	0.0	5.0	.80	2.0s	16m	.45			PN16aj	ML48
11	SN74LS302J	256	1	S	BTD	35nT∅	15nT∅	275mT	0.0	5.0	.80	2.0Δ	16m	.45			PN16aj	ML61a
12	SN74LS302N	256	1	S	BTD	35nT∅	15nT∅	275mT	0.0	5.0	.80	2.0Δ	16m	.45			PN16aj	ML48
13	N82S16F	256	1	S	BTD	40n	25n	1.5mT	0.0	5.0	.85	2.0s	16m	.45			A243	ML127r
14	N82S16N	256	1	S	BTD	40n	30n§	600m	0.0	5.0	.85	2.0s	16m	.45			A243	ML132
15	N82S17F	256	1	S	BTD	40n	25n	1.5mT	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML127r
16	N82S116B	256	1	S	BTD	40n	25n	603m	0.0	5.0	.85	2.0s	16m	.45			A243	ML132
17	N82S116F	256	1	S	BTD	40n	25n	1.5mT	0.0	5.0	.85	2.0s	16m	.45			A243	ML127r
18	N82S116N	256	1	S	BTD	40n	25n§	350m	0.0	5.0	.85	2.0s	16m	.45			A243	ML132
19	N82S117B	256	1	S	BTD	40n	25n	603m	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML132
20#	RC82S116F	256	1	S	BTD	40n	25n	575m	0.0	5.0	.85	2.0s	16m	.45			A243	ML127r
21#	RC82S117F	256	1	S	BTD	40n	25n	575m	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML127r
22	S82S116F	256	1	S	BTD	40n	25n	575m	0.0	5.0	.85	2.0s	16m	.45			A243	ML127r
23	S82S117F	256	1	S	BTD	40n	25n	575m	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML127r
24	SN74LS200AJ	256	1	S	BTD	40n	30n§	500mT	0.0	5.0	.80	2.0s	16m	.45			PN16ai	ML61a
25	SN74LS200AN	256	1	S	BTD	40n	30n§	500mT	0.0	5.0	.80	2.0s	16m	.45			PN16ai	ML48
26	AM27LS00DC	256	1	S	BTD∇	45n	35n§	350m	0.0	5.0	.80	2.0s	16m	.45			A130	ML127k
27	AM27LS00PC	256	1	S	BTD∇	45n	35n§	350m	0.0	5.0	.80	2.0s	16m	.45			A130	ML89a
28	AM27LS01DC	256	1	S	BTD∇	45n	35n§	350m	0.0	5.0	.80	2.0	16m	.45			A130	ML62c
29	AM27LS01PC	256	1	S	BTD∇	45n	35n§	350m	0.0	5.0	.80	2.0	16m	.45			A130	ML89a
30	SN74LS200AJ	256	1	S	BTD	45n	35n§	275mT	0.0	5.0	.80	2.0s	16m	.45			PN16ai	ML61a
31	SN74LS200AN	256	1	S	BTD	45n	35n§	275mT	0.0	5.0	.80	2.0s	16m	.45			PN16ai	ML48
32	SN74LS300AJ	256	1	S	BTD	45n	35n§	275mT	0.0	5.0	.80	2.0Δ	16m	.45			PN16ai	ML61a
33	SN74LS300AN	256	1	S	BTD	45n	35n§	275mT	0.0	5.0	.80	2.0Δ	16m	.45			PN16ai	ML48
34	SN74S300AJ	256	1	S	BTD	45n	40n§	500mT	0.0	5.0	.80	2.0Δ	16m	.45			PN16ai	ML61a
35	SN74S300AN	256	1	S	BTD	45n	40n§	500mT	0.0	5.0	.80	2.0Δ	16m	.45			PN16ai	ML48
36	N74S200B	256	1	S	BTD	50n	50n	850m	0.0	5.0	.85	2.0s	16m	.45			A243	ML132
37	N74S200F	256	1	S	BTD	50n	50n	850m	0.0	5.0	.85	2.0s	16m	.45			A243	ML127r
38	N74S200I	256	1	S	BTD	50n	60n	805m	0.0	5.0	.85	2.0s	16m	.45			A174a	ML107
39	N74S200N	256	1	S	BTD	50n	40n§	850m	0.0	5.0	.85	2.0s	16m	.45			A243	ML132
40	N74S201B	256	1	S	BTD	50n	50n	850m	0.0	5.0	.85	2.0s	16m	.45			A243	ML132
41	N74S301B	256	1	S	BTD	50n	50n	850m	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML132
42	N74S301F	256	1	S	BTD	50n	50n	850m	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML127r
43	N74S301N	256	1	S	BTD	50n	40n§	850m	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML132
44	N82S16B	256	1	S	BTD	50n	55n	1.5mT	0.0	5.0	.85	2.0s	16m	.45			A243	ML132
45	N82S17B	256	1	S	BTD	50n	55n	1.5mT	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML132
46	N82S17N	256	1	S	BTD	50n	30n§	575m	0.0	5.0	.85	2.0Δ	16m	.45			A243	ML132
47	6530	256	1	S	BTD	55n	45n§	875m	0.0	5.0	.85	2.0	15m	.50			A154	ML158
48	6530N	256	1	S	BTD	55n	50n§	650m	0.0	5.0	.80	2.0Δ	15m	.50			A154	ML281
49	6531	256	1	S	BTD	55n	45n§	875m	0.0	5.0	.85	2.0s	15m	.50			A154	ML158
50	6531N	256	1	S	BTD	55n	50n§	650m	0.0	5.0	.80	2.0s	15m	.50			A154	ML281
51	AM27LS00DM	256	1	S	BTD∇	55n	50n§	350m	0.0	5.0	.80	2.0s	16m	.45			A130	ML62c
52	AM27LS00FM	256	1	S	BTD∇	55n	50n§	350m	0.0	5.0	.80	2.0s	16m	.45			A130	FL33b
53	AM27LS01DM	256	1	S	BTD∇	55n	50n§	350m	0.0	5.0	.80	2.0	16m	.45			A130	ML62c
54	AM27LS01FM	256	1	S	BTD∇	55n	50n§	350m	0.0	5.0	.80	2.0	16m	.45			A130	FL33b
55	N74S206B	256	1	S	BTD	55n	80n	805m	0.0	5.0	.85	2.0	16m	.45			A174	ML132
56	N74S206I	256	1	S	BTD	55n	80n	805m	0.0	5.0	.85	2.0	16m	.45			A174	ML107
57	SN54LS200AJ	256	1	S	BTD	55n	50n§	275mT	0.0	5.0	.80	2.0s	16m	.50			PN16ai	ML61a
58	SN54LS200AW	256	1	S	BTD	55n	50n§	275mT	0.0	5.0	.80	2.0s	16m	.50			PN16ai	MO004AG
59	SN54LS300AJ	256	1	S	BTD	55n	50n§	275mT	0.0	5.0	.80	2.0Δ	16m	.50			PN16ai	ML61a
60	SN54LS300AW	256	1	S	BTD	55n	50n§	275mT	0.0	5.0	.80	2.0Δ	16m	.50			PN16ai	MO004AG
61	SN54S200AJ	256	1	S	BTD	60n	40n§	500mT	0.0	5.0	.80	2.0s	16m	.50			PN16ai	ML61a
62	SN54S200AW	256	1	S	BTD	60n	40n§	500mT	0.0	5.0	.80	2.0s	16m	.50			PN16ai	MO004AG
63	SN54S300AJ	256	1	S	BTD	65n	50n§	500mT	0.0	5.0	.80	2.0Δ	16m	.50			PN16ai	ML61a
64	SN54S300AW	256	1	S	BTD	65n	50n§	500mT	0.0	5.0	.80	2.0Δ	16m	.50			PN16ai	MO004AG
65	5530	256	1	S	BTD	70n	65n§	875m	0.0	5.0	.85	2.0	10m	.50			A154	ML158
66	5530F	256	1	S	BTD	70n	70n§	650m	0.0	5.0	.80	2.0Δ	10m	.50			A154	FL49
67	5530J	256	1	S	BTD	70n	70n§	850m	0.0	5.0	.80	2.0Δ	10m	.50			A154	ML280
68	5531	256	1	S	BTD	70n	65n§	875m	0.0	5.0	.85	2.0s	10m	.50			A154	ML158
69	5531F	256	1	S	BTD	70n	70n§	650m	0.0	5.0	.80	2.0s	10m	.50			A154	FL49
70	5531J	256	1	S	BTD	70n	70n§	850m	0.0	5.0	.80	2.0s	10m	.50			A154	ML280
71	MMI5530J	256	1	S	BTD	70n	70n§	875m	0.0	5.0	.85	2.0						
72#	RC54S200F	256	1	S	BTD	70n	80n	650m	0.0	5.0	.80	2.0s	16m	.50			A243	ML127r
73#	RC82S16F	256	1	S	BTD	70n	40n§	1.5mT	0.0	5.0	.80	2.0s	16m	.50			A243	ML127r
74#	RC82S17F	256	1	S	BTD	70n	40n§	1.5mT	0.0	5.0	.80	2.0Δ	16m	.50			A243	ML127r
75	S54S301F	256	1	S	BTD	70n	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50			A243	ML127r
76	S82S16F	256	1	S	BTD	70n	40n§	1.5mT	0.0	5.0	.80	2.0s	16m	.50			A243	ML127r
77	S82S16N	256	1	S	BTD	70n	40n§	600m	0.0	5.0	.80	2.0s	16m	.50			A243	ML132
78	S82S17F	256	1	S	BTD	70n	40n§	1.5mT	0.0	5.0	.80	2.0Δ	16m	.50			A243	ML127r
79	S82S17N	256	1	S	BTD	70n	40n§	600m	0.0	5.0	.80	2.0Δ	16m	.50			A243	ML132
80	L6530	256	1	S	BTD	115n	85n§	275mT	0.0	5.0	.80	2.0	15m	.50			A154	ML158
81	L6530N	256	1	S	BTD	115n	85n§	425m	0.0									

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS				
		1	2							M	S	T	NEG. (V)	POS. (V)	MAX '0' (V)			MIN '1' (V)	(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1	93410FC	256	1	S	BTX	80n	30n	700m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	A150b	FL14				
2	93410PC	256	1	S	BTX	60n	30n	700m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	A150b	ML170				
3	93421DM	256	1	S	BTX	60n	45n	715m	0.0	5.0	.85	2.0Δ	16m	.45	5	C	A153	ML98a				
4	93421FM	256	1	S	BTX	60n	45n	715m	0.0	5.0	.85	2.0Δ	16m	.45	5	C	A153	FL14				
5	93411DM	256	1	S	BTX	65n	55n	715m	0.0	5.0	.85	2.0	16m	.45	5	C	A150a	ML98a				
6	93411FM	256	1	S	BTX	65n	55n	715m	0.0	5.0	.85	2.0	16m	.45	5	C	A150a	FL14				
7#	uPB2202D	256	1	S	BTX	65n	40n	375m	0.0	5.0	.80	2.0Δ	16m	.50	2	7	A440a	ML60d				
8	93410DM	256	1	S	BTX	70n	40n	725m	0.0	5.0	.85	2.0Δ	16m	.45	5	C	A150b	ML127s				
9	93410FM	256	1	S	BTX	70n	40n	725m	0.0	5.0	.85	2.0Δ	16m	.45	5	C	A150b	FL14				
10	AM270059E	256	1	S	BTX	70n†	60n	675m†	0.0	5.0	.80	2.0Δ	16m	.40	0	7	A130	ML62c				
11	AM270059F	256	1	S	BTX	70n†	60n	675m†	0.0	5.0	.80	2.0Δ	16m	.40	0	7	A130	FL33				
12	AM270159E	256	1	S	BTX	70n†	60n	675m†	0.0	5.0	.80	2.0	16m	.40	0	7	A130	ML62c				
13	AM270159F	256	1	S	BTX	70n†	60n	675m†	0.0	5.0	.80	2.0	16m	.40	0	7	A130	FL33				
14	93L421DC	256	1	S	BTX	90n	60n	350m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	A153	ML98a				
15	93L421PC	256	1	S	BTX	90n	60n	350m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	A153	ML170				
16	93L421DM	256	1	S	BTX	100n	70n	350m	0.0	5.5	.85	2.0Δ	16m	.45	5	C	A153	ML98a				
17	93L421FM	256	1	S	BTX	100n	70n	350m	0.0	5.5	.85	2.0Δ	16m	.45	5	C	A153	FL14				
18	CD4061AD	256	1	S	MCA	380n	450n†	25u	0.0	5.0	.01%φ	9.99	1.6m	4.99	5	C	A121	ML140				
19▼	MM54C200J	256	1	S	MCA	400nφ	300nφ	9.0m□	0.0	15	1.5	3.5Δ	8.0m†φ	5.0	5	C	A183	ML1e				
20▼	MM74C200J	256	1	S	MCA	400nφ	300nφ	9.0m□	0.0	15	1.5	3.5Δ	8.0m†φ	5.0	4	8	A183	ML1e				
21	MM74C200N	256	1	S	MCA	400nφ	300nφ	9.0m□	0.0	15	1.5	3.5Δ	8.0m†φ	5.0	4	8	A183	ML1e				
22#	GZF1400D	256	1	S	MCG	200n	100u†	100u†	0.0	10	3.0	7.0	1.6m	.40	3	8	A170	ML176				
23	IM65231DE	256	1	S	MCG	800n	800n	30m†	0.0	5.0	.80	3.0	2.0m	.45	4	8	PN16g	ML1a				
24	IM6523MPE	256	1	S	MCG	800n	800n	30m†	0.0	5.0	.80	3.0	2.0m	.45	5	C	PN16g	ML2g				
25#	HEF4720B	256	1	S	MCX	150n	110n	200m□	0.0	15	4.0	11Δ	2.4m	1.5	4	8	A288	ML27x				
26	34720DC	256	1	S	MCX	100nφ	80nφ	600u†	0.0	10	3.0	7.0Δ	1.2m	.50	4	8	A170	ML127s				
27	34720DM	256	1	S	MCX	100nφ	80nφ	600u†	0.0	10	3.0	7.0Δ	1.2m	.50	5	C	A170	ML127s				
28	34720FC	256	1	S	MCX	100nφ	80nφ	600u†	0.0	10	3.0	7.0Δ	1.2m	.50	4	8	A170	FL14g				
29	34720FM	256	1	S	MCX	100nφ	80nφ	600u†	0.0	10	3.0	7.0Δ	1.2m	.50	5	C	A170	FL14g				
30	34720PC	256	1	S	MCX	100nφ	80nφ	600u†	0.0	10	3.0	7.0Δ	1.2m	.50	4	8	A170	ML170				
31	CD40061AD	256	1	S	MCX	150n	110n	200m□	0.0	10	0.01%	10			5	C	A247	ML140				
32	CD40061AE	256	1	S	MCX	150n	110n	200m□	0.0	10	0.01%	10			4	8	A247	MO001AC				
33	CD40061E	256	1	S	MCX	150n	110n	200m□	0.0	10	0.01%	10			4	8	A247	MO001AC				
34#	HEF4720BD	256	1	S	MCX	160n	160n*	1.5m*	0.0	15	4.0	11Δ	3.0m	1.5	4	8	A354	ML127x				
35#	HEF4720BP	256	1	S	MCX	160n	160n*	1.5m*	0.0	15	4.0	11Δ	3.0m	1.5	4	8	A354	ML89†				
36	4720BDC	256	1	S	MCX	200n	110n	3.0m*	0.0	10	3.0	7.0Δ	1.2m	.50	4	8	A341	ML157f				
37	4720BDM	256	1	S	MCX	200n	110n	3.0m*	0.0	10	3.0	7.0Δ	1.2m	.50	5	C	A341	ML157f				
38	4720BFC	256	1	S	MCX	200n	110n	3.0m*	0.0	10	3.0	7.0Δ	1.2m	.50	4	8	A341	FL14j				
39	4720BFM	256	1	S	MCX	200n	110n	3.0m*	0.0	10	3.0	7.0Δ	1.2m	.50	5	C	A341	FL14j				
40	4720BPC	256	1	S	MCX	200n	110n	3.0m*	0.0	10	3.0	7.0Δ	1.2m	.50	4	8	A341	ML170				
41#	GZF1400P	256	1	S	MCX	200n	200n	100u†	0.0	10	3.0	7.0	1.6m	4.75	4	8	A170	ML176				
42#	HEF4720VD	256	1	S	MCX	220n	220n*	500u†	0.0	10	3.0	7.0Δ	1.1m	.50	4	8	A354	ML127x				
43#	HEF4720VP	256	1	S	MCX	220n	220n*	500u†	0.0	10	3.0	7.0Δ	1.1m	.50	4	8	A354	ML89†				
44#	HEF4720P	256	1	S	MCX	260n	260n*	400m□	0.0	10	3.0	7.0Δ	1.2m	.50	4	8	A288	ML48e				
45	CD4061AH	256	1	S	MCX	380n	450n†	25u	0.0	5.0	.01%φ	9.99	1.6m	4.99	5	C	A121	CH11				
46	MCM14537AL	256	1	S	MCX	1.5uφ	1.5uφ	6.0m*φ	0.0	15	.05%	14.9Δ	2.4m	1.5	5	C	A147	ML371				
47	MCM14537CL	256	1	S	MCX	1.5uφ	1.5uφ	6.0m*φ	0.0	15	.05%	14.9Δ	2.4m	1.5	4	8	A147	ML371				
48#	HEF4720	256	1	S	MCX	400	400	5.0m	0.0	15	.05%	14.9Δ	2.4m	1.5	0	7						
49	25L01†	256	1	S	MNG	1.0u	400n	435m	12	5.0	.50	3.0	3.0mφ	.45	0	7	A265	ML107a				
50	25L01N	256	1	S	MNG	1.0u	400n	435m	12	5.0	.50	3.0	3.0m	.45	0	7	A265	ML102				
51	C1101A1	256	1	S	MPG	1.0u	800n*	1.0□	9.0	5.0	.50	3.0Δ	2.0m	.45	0	7	A1	ML10c				
52	C1101A1DM	256	1	S	MPG	1.0u	800n	700m□	10	5.0	.50	4.0	1.8m	.45	5	C	A1	ML62c				
53	N25L01B	256	1	S	MPG	1.0u	400n	640m□	12	5.0	.50	3.0Δ	3.0m	.45	0	7	A1	ML132				
54	N25L01†	256	1	S	MPG	1.0u	400n	800m□	12	5.0	.50	3.0Δ	3.0m	.45	0	7	A1	ML107				
55	P1101A1	256	1	S	MPG	1.0u	800n*	700m□	9.0	5.0	.50	4.0	2.0m	.45	0	7	A1	ML4j				
56	RA9-1101A1#1	256	1	S	MPG	1.0u	800n*	1.0□	9.0	5.0	.50	3.0	2.0m	.45	0	7	A1	ML65				
57	RA9-1101A1#2	256	1	S	MPG	1.0u	800n*	1.0□	9.0	5.0	.50	3.0	2.0m	.45	0	7	A1					
58	1101ADM	256	1	S	MPG	1.5u	800n*	700m□	9.0	5.0	.50	4.0	1.8m	.45	5	C	A1	ML10c				
59	C1101A51	256	1	S	MPG	1.5u	400n	400m	9.0	5.0	.30	4.5	2.0	.45	0	7	MO□	ML10c				
60	C1101A	256	1	S	MPG	1.5u	800n*	1.0□	9.0	5.0	.50	3.0Δ	2.0m	.45	0	7	A1	ML10c				
61	C1101ADM	256	1	S	MPG	1.5u	800n	700m□	10	5.0	.50	4.0	1.8m	.45	5	C	A1	ML62c				
62	P1101A	256	1	S	MPG	1.5u	800n*	700m□	9.0	5.0	.50	4.0	2.0m	.45	0	7	A1	ML10c				
63	RA9-1101A#1	256	1	S	MPG	1.5u	800n*	1.0□	9.0	5.0	.05	3.0	2.0m	.45	0	7	A1	ML65				
64	RA9-1101A#2	256	1	S	MPG	1.5u	800n*	1.0□	9.0	5.0	.05	3.0	2.0m	.45	0	7	A1					
65	25L01B	256	1	S	MPX	1.0u	300n*	1.7m□	12	5.0	.50	3.0	3.0mφ	.45	0	7	A265	ML85				
66	MCM93412DC	256	4	S	BTX	45n	30n	0.5%†	0.5	5.5	#	0.8	2.1Δ	100uΔ	4.5	5	C	A478	ML386			
67	MCM93412FM	256	4	S	BTX	45n	40n	0.5%†	0.5	5.5	#	0.8	2.1Δ	100uΔ	4.5	5	C	A478	FL72			
68	MCM93412PC	256	4	S	BTX	45n	30n	0.5%†	0.5	5.5	#	0.8	2.1Δ	100uΔ	4.5	5	C	A478				
69	MCM93422DC	256	4	S	BTX	45n	30n	0.5%†	0.5	5.5	#	0.8	2.1Δ	50u#	2.4	0	7	A478	ML386			
70	MCM93422PC	256	4	S	BTX	45n	30n	0.5%†	0.5	5.5	#	0.8	2.1Δ	50u#	2.4	0	7	A478	ML386			
71▼	MBC5101L4	256	4	S	MCX	650n	650n	121m	4.5	5.5	.05	2.2	2.0m	0.4	5	C						
72	F10422DC	256	4	S	BEX	10n	7.0n	850m†	5.2	0.0	-1.4	-1.1	30m□		0	7		ML□				
73	F10422FC	256	4	S	BEX	10n	7.0n	850m†	5.2	0.0	-1.4	-1.1	30m□		0	7		FL□				
74	F100422DC	256	4	S	BEX	10n	7.0n	900m	4.5	0.0	-1.4	-1.1	30m□		0	8		ML□				
75	F100422FC	256	4	S	BEX	10n	7.0n	900m	4.5	0.0	-1.4	-1.1	30m□		0	8		FL□				
76#	GXB100422AF	256	4	S	BEX	10n	8.0n	800m	4.5	0.0	-1.8	-1.8			0	7	A517a					
77#	GXB100422AN	256	4	S	BEX	10n	8.0n	800m	4.5	0.0	-1.8	-1.8			0	7	A517a					
78#	HM100422	256	4	S	BEX	10n																

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)NO.WORDS(2)NO.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX. ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	6	7	8	9	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS																																																																																																
		1	2								10	11	12	13	14	15			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	LOGIC/BLOCK	OUTLINE
1	93412DM	256	4	S	BTX	60n	40n	850m	0.0	5.0	80	2.1	8.0m	.45	5	C	A233	ML8c																																																																																																	
2	93412FM	256	4	S	BTX	60n	40n	850m	0.0	5.0	80	2.1Δ	8.0m	.45	5	C	A233	FL3c																																																																																																	
3	93422DM	256	4	S	BTX	60n	40n	850m	0.0	5.0	80	2.1Δ	8.0m	.45	5	C	A233	ML8c																																																																																																	
4	93422FM	256	4	S	BTX	60n	40n	850m	0.0	5.0	80	2.1Δ	8.0m	.45	5	C	A233	FL3c																																																																																																	
5	93L412DM	256	4	S	BTX	75n	55n	375m	0.0	5.0	80	2.1Δ	8.0m	.45	5	C	A233	ML8c																																																																																																	
6	93L412FM	256	4	S	BTX	75n	55n	375m	0.0	5.0	80	2.1Δ	8.0m	.45	5	C	A233	FL3c																																																																																																	
7	93L422DM	256	4	S	BTX	75n	55n	375m	0.0	5.0	80	2.1Δ	8.0m	.45	5	C	A233	ML8c																																																																																																	
8	93L422FM	256	4	S	BTX	75n	55n	375m	0.0	5.0	80	2.1Δ	8.0m	.45	5	C	A233	FL3c																																																																																																	
9	IM6551AIDF	256	4	S	MCG	180n		5.0u†	0.0	11	80	9.0Δ	1.0uΔ		4	8	A297	ML405																																																																																																	
10	IM6551AJJF	256	4	S	MCG	180n		5.0u†	0.0	11	80	9.0Δ	1.0uΔ		4	8	A297	ML406																																																																																																	
11	IM6551AMDF	256	4	S	MCG	180n		5.0u†	0.0	11	80	9.0Δ	1.0uΔ		5	C	A297	ML405																																																																																																	
12	IM6551AMJF	256	4	S	MCG	180n		5.0u†	0.0	11	80	9.0Δ	1.0uΔ		5	C	A297	ML406																																																																																																	
13	IM6561AIDN	256	4	S	MCG	180n		5.0u†	0.0	11	80	9.0Δ	1.0uΔ		4	8	A298	ML397																																																																																																	
14	IM6561AIJN	256	4	S	MCG	180n		5.0u†	0.0	11	80	9.0Δ	1.0uΔ		4	8	A298	ML398																																																																																																	
15	IM6561AMDN	256	4	S	MCG	180n		5.0u†	0.0	11	80	9.0Δ	1.0uΔ		5	C	A298	ML397																																																																																																	
16	IM6561AMJN	256	4	S	MCG	180n		5.0u†	0.0	11	80	9.0Δ	1.0uΔ		5	C	A298	ML398																																																																																																	
17	NMC6551B-J-2	256	4	S	MCG	220n	320n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	5	C	A472	ML77j																																																																																																	
18	NMC6551B-J-9	256	4	S	MCG	220n	320n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A472	ML77j																																																																																																	
19	NMC6551B-N-9	256	4	S	MCG	220n	320n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A472	ML197																																																																																																	
20	NMC6552B-J-2	256	4	S	MCG	220n	320n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	5	C	A473	ML194e																																																																																																	
21	NMC6552B-J-9	256	4	S	MCG	220n	320n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A473	ML194e																																																																																																	
22	NMC6552B-N-9	256	4	S	MCG	220n	320n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A473	ML196																																																																																																	
23	MM74C920J	256	4	S	MCG	250n	255n*	500m‡	0.0	5.0	80	3.0Δ	1.0uΔ	5.0	4	8	A291	ML‡																																																																																																	
24	MM74C921J	256	4	S	MCG	250n	120n†	50u†	0.0	5.0	80	3.0Δ	2.0m	.40	4	8	A291	ML204a																																																																																																	
25	MM74C921J	256	4	S	MCG	250n	255n*	500m‡	0.0	5.0	80	3.5Δ	1.0uΔ	5.0	4	8	A291a	ML‡																																																																																																	
26	MM74C921J	256	4	S	MCG	250n	120n†	50u†	0.0	5.0	80	3.0Δ	2.0m	.40	4	8	A291a	ML196																																																																																																	
27	MM54C920J	256	4	S	MCG	275n	290n*	500m‡	0.0	5.0	80	3.0Δ	1.0uΔ	5.0	5	C	A291	ML‡																																																																																																	
28	MM54C921J	256	4	S	MCG	275n	290n*	500m‡	0.0	5.0	80	3.0Δ	1.0uΔ	5.0	5	C	A291a	ML‡																																																																																																	
29	MM74C920J-3	256	4	S	MCG	300n	330n*	500m‡	0.0	5.0	80	3.5Δ	1.0uΔ	5.0	0	7	A291	ML‡																																																																																																	
30	MM74C921J-3	256	4	S	MCG	300n	330n*	500m‡	0.0	5.0	80	3.5Δ	1.0uΔ	5.0	0	7	A291a	ML‡																																																																																																	
31	MM74C921N-3	256	4	S	MCG	300n	330n*	500m‡	0.0	5.0	80	3.5Δ	1.0uΔ	5.0	0	7	A291a	ML‡																																																																																																	
32	NMC6551J-2	256	4	S	MCG	300n	400n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	5	C	A408	ML77j																																																																																																	
33	NMC6551J-9	256	4	S	MCG	300n	400n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A408	ML77j																																																																																																	
34	NMC6551N-9	256	4	S	MCG	300n	400n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A408	ML204a																																																																																																	
35	NMC6552J-2	256	4	S	MCG	300n	400n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	5	C	A291a	ML194e																																																																																																	
36	NMC6552J-9	256	4	S	MCG	300n	400n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A291a	ML194e																																																																																																	
37	NMC6552N-9	256	4	S	MCG	300n	400n	50u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A291a	ML196																																																																																																	
38	NMC6551J-5	256	4	S	MCG	350n	500n	500u†	0.0	5.0	80	3.0Δ	3.2m	.40	0	7	A408	ML77j																																																																																																	
39	NMC6551N-5	256	4	S	MCG	350n	500n	500u†	0.0	5.0	80	3.0Δ	3.2m	.40	0	7	A408	ML204a																																																																																																	
40	NMC6552J-5	256	4	S	MCG	350n	500n	500u†	0.0	5.0	80	3.0Δ	3.2m	.40	0	7	A291a	ML194e																																																																																																	
41	NMC6552N-5	256	4	S	MCG	350n	500n	500u†	0.0	5.0	80	3.0Δ	3.2m	.40	0	7	A291a	ML196																																																																																																	
42	IM6551IDF	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		4	8	A297	ML405																																																																																																	
43	IM6551IJF	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		4	8	A297	ML406																																																																																																	
44	IM6551IPF	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		4	8	A297	ML407																																																																																																	
45	IM6551IMJF	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		5	C	A297	ML406																																																																																																	
46	IM6551MPF	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		5	C	A297	ML407																																																																																																	
47	IM6561IDN	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		4	8	A298	ML397																																																																																																	
48	IM6561IJN	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		4	8	A298	ML398																																																																																																	
49	IM6561IPN	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		4	8	A298	ML402																																																																																																	
50	IM6561IMJF	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		5	C	A298	ML398																																																																																																	
51	IM6561MPF	256	4	S	MCG	360n		5.0u†	0.0	5.0	80	3.0Δ	1.0uΔ		5	C	A298	ML402																																																																																																	
52	C5101L-1	256	4	S	MCG	450n	450n*	135m	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A300	ML360b																																																																																																	
53	HM435101P-1	256	4	S	MCG	450n		1.0‡	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A267a	ML212d																																																																																																	
54	IM6551CJF	256	4	S	MCG	450n		5.0u†	0.0	5.0	80	3.0Δ	5.0uΔ		0	7	A297	ML406																																																																																																	
55	IM6551CPF	256	4	S	MCG	450n		5.0u†	0.0	5.0	80	3.0Δ	5.0uΔ		0	7	A297	ML407																																																																																																	
56	IM6561CDN	256	4	S	MCG	450n		5.0u†	0.0	5.0	80	3.0Δ	5.0uΔ		0	7	A298	ML397																																																																																																	
57	IM6561CJN	256	4	S	MCG	450n		5.0u†	0.0	5.0	80	3.0Δ	5.0uΔ		0	7	A298	ML398																																																																																																	
58	IM6561CPN	256	4	S	MCG	450n		5.0u†	0.0	5.0	80	3.0Δ	5.0uΔ		0	7	A298	ML402																																																																																																	
59	M5L5101LP-1	256	4	S	MCG	450n	450n*	135m	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A267	ML212																																																																																																	
60	MCM145101-1L	256	4	S	MCG	450n		135m	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A267	ML373																																																																																																	
61	MCM145101-1P	256	4	S	MCG	450n	450n*	135m	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A267	ML212																																																																																																	
62	P5101L-1	256	4	S	MCG	450n	450n*	135m	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A300	ML361c																																																																																																	
63	P5101L-3	256	4	S	MCG	450n	650n*	135m	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A300	ML361c																																																																																																	
64	TC5501P	256	4	S	MCG	450n	450n*	83m	0.0	5.0	65	2.2	2.0m	.40	3	8		ML237																																																																																																	
65	TC5501P-1	256	4	S	MCG	450n	450n*	83m	0.0	5.0	65	2.2	2.0m	.40	3	8		ML237																																																																																																	
66	uPD5101C-E	256	4	S	MCG‡	450n		1.0‡	0.0	5.0	65	2.2Δ	1.0uΔ	5.0	0	6																																																																																																			
67	C5101L	256	4	S	MCG	650n	650n*	142m	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A196	ML358a																																																																																																	
68	C5101L-3	256	4	S	MCG	650n*	650n*	135m	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A300	ML360b																																																																																																	
69	HM435101P	256	4	S	MCG	650n		1.0‡	0.0	5.0	65	2.2Δ	2.0m	.40	0	7	A267a	ML212d																																																																																																	
70	HM435101V	256	4	S	MCG	650n	650n*	1.0‡	0.0	5.0	80	2.2Δ	1.0uΔ	5.0	2	7	A267a	ML299																																																																																																	
71	HM435101VP	256	4	S	MCG	650n		1.0‡	0.0	5.0</																																																																																																									

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION				MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE	DRAWINGS	
		1 No. WORDS	2 BITS PER WORD	3 MODE	4 STRUCTURE CODE				NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)			LOGIC/BLOCK	OUTLINE
1#	uPD5101LC	256	4	S	MCX	650n	650n*	135m	0.0	5.0	.65	2.2s	2.0m	.40	0	7	A267	ML363
2	S5101-8	256	4	S	MCX	800n	800n*	2.5m†	0.0	5.0	.65	2.2s	2.0m	.40	0	7	A300	ML154
3	S5101L8	256	4	S	MCX	800n	800n*	1.10m	0.0	5.0	.65	2.2s	2.0m	.40	0	7	A300	ML154
4	SCM5101-8	256	4	S	MCX	800n	800n*	150m	0.0	5.0	.80	2.0s	2.0m	.40	0	7	A300	ML127
5#	uPD5101-E	256	4	S	MCX	800n	800n*	135m	0.0	5.0	.65	2.2s	2.0m	.40	0	7	A267	ML363
6	Am9112APC	256	4	S	MNG		500nΔ*	290m	0.0	5.0	.80	2.0			0	7		
7▼	AM9101EDC	256	4	S	MNG		200nΔ*	275m	0.0	5.0	.80	2.0			0	7		
8▼	AM9101EPC	256	4	S	MNG		200nΔ*	275m	0.0	5.0	.80	2.0			0	7		
9▼	AM9111EDC	256	4	S	MNG		200nΔ*	275m	0.0	5.0	.80	2.0			0	7		
10▼	AM9111EPC	256	4	S	MNG		200nΔ*	275m	0.0	5.0	.80	2.0			0	7		
11▼	AM9112EDC	256	4	S	MNG		200nΔ*	290m	0.0	5.0	.80	2.0			0	7		
12▼	AM9112EPC	256	4	S	MNG		200nΔ*	290m	0.0	5.0	.80	2.0			0	7		
13	AM9101	256	4	S	MNG	175n†		125m†	0.0	5.0	.80	2.0	3.2m	.40			A196	ML127
14	AM9111	256	4	S	MNG	175n†		125m†	0.0	5.0	.80	2.0	3.2m	.40			A200	ML127
15	AM9112	256	4	S	MNG	175n†		125m†	0.0	5.0	.80	2.0	3.2m	.40			A201	ML127
16#	2101A-2F	256	4	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A196	ML227
17#	2101A-2N	256	4	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A196	ML212e
18#	2111A-2F	256	4	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A200	ML165a
19#	2111A-2N	256	4	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A200	ML291
20#	2112A-2F	256	4	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A240a	ML127r
21#	2112A-2N	256	4	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A240a	ML132
22	C2101A-2	256	4	S	MNG	250n		325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML358a
23	C2111A-2	256	4	S	MNG	250n		325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML360
24	C2112A-2	256	4	S	MNG	250n		325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A240	ML358
25	D2101A-2	256	4	S	MNG	250n	170n*	325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML359c
26	D2111A-2	256	4	S	MNG	250n	170n*	325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML359a
27	D2112A-2	256	4	S	MNG	250n	170n*	325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A240	ML359
28▼#	M5L2101AP2	256	4	S	MNG	250n	250n*	200m†	0.0	5.0					0	7		DL127
29▼#	M5L2101AS2	256	4	S	MNG	250n	250n*	200m†	0.0	5.0					0	7		DL127
30▼#	M5L2111AP2	256	4	S	MNG	250n	250n*	200m†	0.0	5.0					0	7		DL127
31▼#	M5L2111AS2	256	4	S	MNG	250n	250n*	200m†	0.0	5.0					0	7		DL127
32	P2101A-2	256	4	S	MNG	250n	170n*	325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML361b
33	P2111A-2	256	4	S	MNG	250n	170n*	325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML361a
34	P2112A-2	256	4	S	MNG	250n	170n*	325m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A240	ML361
35#	2101AF	256	4	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A196	ML227
36#	2101AN	256	4	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A196	ML212e
37#	2111AF	256	4	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A200	ML165a
38#	2111AN	256	4	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A200	ML291
39#	2112AF	256	4	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A240a	ML127r
40#	2112AN	256	4	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A240a	ML132
41	C2101A	256	4	S	MNG	350n		275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML358a
42	C2111A	256	4	S	MNG	350n		275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML360
43	C2112A	256	4	S	MNG	350n		275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A240	ML358
44	D2101A	256	4	S	MNG	350n	220n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML359c
45	D2111A	256	4	S	MNG	350n	220n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML359a
46	D2112A	256	4	S	MNG	350n	220n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML359a
47▼#	M5L2111AP	256	4	S	MNG	350n	350n*	175m	0.0	5.0					0	7		DL127
48▼#	M5L2111AS	256	4	S	MNG	350n	350n*	175m	0.0	5.0					0	7		DL127
49	P2101A	256	4	S	MNG	350n	220n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML361b
50	P2111A	256	4	S	MNG	350n	220n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML361a
51	P2112A	256	4	S	MNG	350n	220n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A240	ML361
52	uPD412D	256	4	S	MNG	430n		261m†	5.0	12	.65	3.0	1.6m	.60	1	7	A222	ML205
53#	2101A-4F	256	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A196	ML227
54#	2101A-4N	256	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A196	ML212e
55#	2111A-4F	256	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A200	ML165a
56#	2111A-4N	256	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A200	ML291
57#	2112A-4F	256	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A240a	ML127r
58#	2112A-4N	256	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	2.0m	.45	0	7	A240a	ML132
59	C2101A-4	256	4	S	MNG	450n		275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML358a
60	C2111A-4	256	4	S	MNG	450n		275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML360
61	C2112A-4	256	4	S	MNG	450n		275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A240	ML358
62	D2101A-4	256	4	S	MNG	450n	270n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML359c
63	D2111A-4	256	4	S	MNG	450n	270n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML359a
64	D2112A-4	256	4	S	MNG	450n	270n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A240	ML359
65#	M5L2101AP-4	256	4	S	MNG	450n	350n*	315m	5.0	12	.80	2.2s	3.5m	.45	0	7	A196	ML342
66#	M5L2111AP-4	256	4	S	MNG	450n	350n*	315m	5.0	12	.80	2.2s	3.5m	.45	0	7	A200	ML127
67▼#	M5L2111AS4	256	4	S	MNG	450n	450n*	150m	0.0	5.0					0	7		DL127
68#	M5L2112AP-4	256	4	S	MNG	450n	350n*	315m	5.0	12	.80	2.2s	3.5m	.45	0	7	A240	ML336
69	P2101A-4	256	4	S	MNG	450n	270n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A438	ML361b
70	P2111A-4	256	4	S	MNG	450n	270n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A200	ML361a
71	P2112A-4	256	4	S	MNG	450n	270n*	275m	0.0	5.0	.80	2.0s	2.0m	.45	0	7	A240	ML361
72	2111-1I	256	4	S	MNG	500n	500n*	350m	0.0	5.0	.65	2.2	2.0m	.45	0	7	A200	ML134j
73	2111-1N	256	4	S	MNG	500n	500n*	350m*	0.0	5.0	.65	2.2	2.0m	.45	0	7	A200	ML291
74	C2101-1	256	4	S	MNG	500n	500n*	1.0 □	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A196	ML8d
75	C2111-1	256	4	S	MNG	500n	500n*	1.0 □	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A200	ML147
76	P2101-1	256	4	S	MNG	500n	500n*	1.0 □	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A196	ML8e
77	P2111-1	256	4	S	MNG	500n	500n*	1.0 □	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A200	ML3
78	C2101-2	256	4	S	MNG	650n	650n*	1.0 □	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A196	ML8d
79	C2111-2	256	4	S	MNG	650n	650n*	1.0 □	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A200	ML147
80	P2112-2	256	4	S	MNG	650n	650n*	1.0 □	0.0</									

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS				
		1	2						MOD	STRUCTURE CODE	MAX ACCESS TIME (s)	NEG. (V)	POS. (V)	MAX '0' (V)			MIN '1' (V)	(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1	SYC2111-1	256	4	S	MNI	500n	500n*	1.0	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A200	ML115a			
2	SYC2112-1	256	4	S	MNI	500n	500n*	1.0	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A201	ML107a			
3	SY2101-1	256	4	S	MNI	500n	500n*	1.0	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A196	ML212a			
4	SY2111-1	256	4	S	MNI	500n	500n*	1.0	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A200	ML165			
5	SY2112-1	256	4	S	MNI	500n	500n*	1.0	0.0	5.0	.65	2.2s	2.0m	.45	0	7	A201	ML222			
6	RA3-4256A	256	4	S	MNI	650n	650n*	500m	0.0	5.0	.65	2.2s	1.6m	.40	0	7	A181	ML324			
7	RA3-4256B	256	4	S	MNI	650n	650n*	500m	0.0	5.0	.65	2.2s	1.6m	.40	0	7	A213	ML242			
8	AM9101DDC	256	4	S	MNX	250n	250n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML197c			
9	AM9101DPC	256	4	S	MNX	250n	250n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML197c			
10	AM9111DDC	256	4	S	MNX	250n	250n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML154			
11	AM9111DPC	256	4	S	MNX	250n	250n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML197c			
12	AM9112DDC	256	4	S	MNX	250n	250n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML89d			
13	AM9112DPC	256	4	S	MNX	250n	250n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML89d			
14	AM9101CDC	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML194			
15	AM9101CDM	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480	ML194			
16	AM9101CPC	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML197c			
17	AM9111CDC	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML154			
18	AM9111CDM	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A481	ML154			
19	AM9111CPC	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML197c			
20	AM9112CDC	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML312a			
21	AM9112CDM	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A482	ML312a			
22	AM9112CPC	256	4	S	MNX	300n	300n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML89d			
23	AM9101CDC	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML194			
24	AM9101CDM	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480	ML194			
25	AM9101CPC	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML197c			
26	AM9111CDC	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML154			
27	AM9111CDM	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A481	ML154			
28	AM9111CPC	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML197c			
29	AM9112CDC	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML312a			
30	AM9112CDM	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A482	ML312a			
31	AM9112CPC	256	4	S	MNX	300n	300n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML89d			
32	AM9101BDC	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML154			
33	AM9101BDM	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480	ML154			
34	AM9101BFM	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480a	FL40			
35	AM9101BPC	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML197c			
36	AM9111BDC	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML194			
37	AM9111BDM	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A481	ML154			
38	AM9111BFM	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A481a	FL40			
39	AM9111BPC	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML197c			
40	AM9112BDC	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML312a			
41	AM9112BDM	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A482	ML312a			
42	AM9112BFM	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A482	FL33b			
43	AM9112BPC	256	4	S	MNX	400n	400n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML89d			
44	AM9101BDC	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML154			
45	AM9101BDM	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480	ML154			
46	AM9101BFM	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480a	FL40			
47	AM9101BPC	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML197c			
48	AM9111BDC	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML194			
49	AM9111BDM	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A481	ML154			
50	AM9111BFM	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A481a	FL40			
51	AM9111BPC	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML197c			
52	AM9112BDC	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML312a			
53	AM9112BDM	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A482	ML312a			
54	AM9112BFM	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A482	FL33b			
55	AM9112BPC	256	4	S	MNX	400n	400n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML89d			
56#	uPD412C	256	4	S	MNX	430n	430n*	262m	5.0	12	.65	3.0	1.7m	.60	1	7	A222	ML205			
57#	uPD2101ALC	256	4	S	MNX	450n	350n	367m	0.0	5.0	.80	2.0s	2.1m	.40	1	7	A196	ML363			
58#	uPD2101ALC-2	256	4	S	MNX	450n	250n	367m	0.0	5.0	.80	2.0s	2.1m	.40	1	7	A196	ML363			
59#	uPD2101ALC-4	256	4	S	MNX	450n	450n	367m	0.0	5.0	.80	2.0s	2.1m	.40	1	7	A196	ML363			
60#	uPD2111ALC	256	4	S	MNX	450n	220n*	341m	0.0	5.0	.80	2.0s	2.1m	.40	1	7	A200	ML368			
61#	uPD2111ALC-2	256	4	S	MNX	450n	170n*	341m	0.0	5.0	.80	2.0s	2.1m	.40	1	7	A200	ML368			
62#	uPD2111ALC-4	256	4	S	MNX	450n	270n*	341m	0.0	5.0	.80	2.0s	2.1m	.40	1	7	A200	ML368			
63	AM9101ADC	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML154			
64	AM9101ADM	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480	ML154			
65	AM9101AFM	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480a	FL40			
66	AM9101APC	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML197c			
67	AM9111ADC	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML194			
68	AM9111ADM	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A481	ML194			
69	AM9111AFM	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A481a	FL40			
70	AM9111APC	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A481	ML197c			
71	AM9112ADC	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML312a			
72	AM9112ADM	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A482	ML312a			
73	AM9112AFM	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A482	F33b			
74	AM9112APC	256	4	S	MNX	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A482	ML89d			
75	AM9101ADC	256	4	S	MNX	500n	500n*	290m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A480	ML154			
76	AM9101ADM	256	4	S	MNX	500n	500n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480	ML154			
77	AM9101AFM	256	4	S	MNX	500n	500n*	290m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A480a	FL40			
78	AM9101APC	256	4	S	MNX	500n	500n*	290m	0.0												

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED SUP. POWER SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS				
		1	2							M	O	N	NEG. (V)	POS. (V)	MAX '0' (V)			MIN '1' (V)	(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1	MEM-2	1000	8	S			550n	500n	200m	-12	12						0	7				
2	MEM-6	1000	8	S			500n	60n	775m	0.0	5.0						0	7				
3#	RC82S10F	1024	1		BTD	60n	70n	75n	850m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML127r		
4#	RC82S10I	1024	1		BTX	70n	75n	850m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML107			
5#	MBC6508	1024	1		MCX	460n	760n	11m	4.5	5.5	0.8	2.5	2.0m	0.45		5	C					
6#	HAB1500	1024	1	D	MNG	85n	270n	220m	15	15	.80	14.2	900u		500 Δ	0	7	A101	ML115			
7#	HAB1501	1024	1	D	MNG	150n	450n	120m	12	12	.80	11.4	900u		500 Δ	0	7	A101	ML115			
8#	HAB1502	1024	1	D	MNG	200n	450n*	165m	12	12	.80	3.0	1.6m	.40	500 Δ	0	7					
9	1103-1K	1024	1	D	MPG	150n*	340n*	1.0 Δ	0.0	19	2.0	18	10uΔ	0.0	1.0kΔ	0	5	A2	ML134			
10	1103-1XA	1024	1	D	MPG	150n*	340n*	1.0 Δ	0.0	19	2.0	18	10uΔ	0.0	1.0kΔ	0	5	A2	ML131			
11	RA9-1103E	1024	1	D	MPG	150n*	340n*	1.0 Δ	0.0	22	-1.0	23.5	600u\$	.06		0	5	A2	ML112		
12	RA9-1103D	1024	1	D	MPG	220n*	390n*	1.0 Δ	0.0	22	-1.0	23.5	600u\$	.06		0	5	A2	ML112		
13	1103K	1024	1	D	MPG	300n	580n	1.0	0.0	16	1.0	15			500	0	7	A2	ML134			
14	1103XA	1024	1	D	MPG	300n	580n	1.0	0.0	16	1.0	15			500	0	7	A2	ML172			
15	3534-9-7T	1024	1	D	MPG	300n*	480n*	1.0	0.0	16	1.8	15			500	0	7	PN18k	ML25a			
16#	GY0101	1024	1	D	MPG	300n*	565n*	337m	0.0	16	1.8	15	1.0u	0.0	500 Δ	0	7	A2	ML2			
17	RA9-1103B	1024	1	D	MPG	300n*	580n*	1.0 Δ	0.0	19	-1.0	17	600u\$	.06		0	6	A2	ML112		
18	RA9-1103C	1024	1	D	MPG	300n*	580n*	1.0 Δ	0.0	19	-1.0	17	600u\$	.06		0	6	A2	ML112		
19	RA9-1103A	1024	1	D	MPG	350n*	580n*	1.0 Δ	0.0	19	-1.0	17	600u\$	.06		0	5	A2	ML112		
20	1103I	1024	1	D	MPX	300n*	580n*	1.0 Δ	0.0	16	1.5	15.3			500 Δ	0	7	A2	ML134j			
21	1103N	1024	1	D	MPX	300n*	580n*	1.0 Δ	0.0	16	1.5	15.3			500 Δ	0	7	A2	ML291			
22#	HM2112-1	1024	1	S	BEX	8.0n	6.0n\$	820m	5.2	0.0	1.4	1.1				0	7	A97b	ML89h			
23#	GXB100415	1024	1	S	BEX	13n	10n\$	700m	4.5	0.0	-0.80	-1.8				0	7	B519				
24#	DM10415AJ	1024	1	S	BEX	20n	25n\$	780m	5.2	0.0	-1.8*	-1.1#	30m			0	7	A474	ML127k			
25	DM10415AN	1024	1	S	BEX	20n	25n\$	780m	5.2	0.0	-1.8*	-1.1#	30m			0	7	A474	ML178			
26	F10415ADC	1024	1	S	BEX	20n	12n\$	780m	5.2	0.0	-1.4	-1.1	30m			0	7	A97b	ML1k			
27	F10415AFC	1024	1	S	BEX	20n	12n\$	780m	5.2	0.0	-1.4	-1.1	30m			0	7	A97b	FL14			
28	F100415DC	1024	1	S	BEX	20n	12n\$	780m	5.2	0.0	-1.4	-1.1	30m			0	8	A97b	ML1k			
29	F100415FC	1024	1	S	BEX	20n	12n\$	780m	5.2	0.0	-1.4	-1.1	30m			0	8	A97b	FL14			
30#	HM2110-2	1024	1	S	BEX	20n	25n\$	500u\$	5.2	0.0	-1.4	-1.1	30m			0	7	A97b	ML217			
31#	MBM10415AH	1024	1	S	BEX	20n	12n\$	500u\$	5.0	0.0	-1.8*	-1.1#	30m			0	7	A331	ML1m			
32#	HM2110-1	1024	1	S	BEX	25n	25n\$	500u\$	5.2	0.0	-1.4	-1.1	30m			0	7	A97b	ML217			
33	MCM10146F	1024	1	S	BEX	29n	25n\$	754m	5.2	0.0	-1.4	-1.1	50m			0	7	A420	FL34			
34	MCM10146L	1024	1	S	BEX	29n	25n\$	754m	5.2	0.0	-1.4	-1.1	50m			0	7	A420	ML372			
35#	GXB10415A	1024	1	S	BEX	32n∅	27n∅	780m∅	5.2	0.0	-1.4	-1.1	50m			0	7	A331	ML176			
36	DM10415J	1024	1	S	BEX	35n	25n\$	780m	5.2	0.0	-1.8*	-1.1#	30m			0	7	A474	ML127k			
37	DM10415N	1024	1	S	BEX	35n	25n\$	780m	5.2	0.0	-1.8*	-1.1#	30m			0	7	A474	ML178			
38	F10415DC	1024	1	S	BEX	35n	25n\$	780m	5.2	0.0	-1.4	-1.1	30m			0	7	A97b	ML1k			
39	F10415FC	1024	1	S	BEX	35n	25n\$	780m	5.2	0.0	-1.4	-1.1	30m			0	7	A97b	FL14			
40#	HM2110	1024	1	S	BEX	35n	25n\$	500u\$	5.2	0.0	-1.4	-1.1	30m			0	7	A97b	ML217			
41#	MBM10415A	1024	1	S	BEX	35n	25n\$	500u\$	5.2	0.0	-1.8*	-1.1#	50m			0	7	A331	ML1m			
42	MCM10546F	1024	1	S	BEX	40n	25n\$	754m	5.2	0.0	-1.4	-1.1	50m			5	C	A420	FL34			
43	MCM10546L	1024	1	S	BEX	40n	25n\$	754m	5.2	0.0	-1.4	-1.1	50m			5	C	A420	ML372			
44#	GXB10415	1024	1	S	BEX	60n∅	35n∅	780m∅	5.2	0.0	-1.4	-1.1	50m			0	7	A331	ML176			
45	N93415AF	1024	1	S	BTD						.85	2.1	16m	.45		0	7	A242	ML127r			
46	N93425AF	1024	1	S	BTD						.85	2.1	16m	.45		0	7	A242	ML127r			
47	N82S10N	1024	1	S	BTD	40n	40n	850m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML132			
48	N82S11N	1024	1	S	BTD	40n	40n	850m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML132			
49	N82LS10F	1024	1	S	BTD	45n	35n\$	325m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML127r			
50	N82LS10N	1024	1	S	BTD	45n	35n\$	325m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML132			
51	N82LS11F	1024	1	S	BTD	45n	35n\$	325m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML127r			
52	N82LS11N	1024	1	S	BTD	45n	35n\$	325m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML132			
53	N82S10F	1024	1	S	BTD	45n	35n\$	325m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML127r			
54	N82S11F	1024	1	S	BTD	45n	35n\$	325m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML127r			
55	SN74S214AJ	1024	1	S	BTD	45n	35n\$	550m	0.0	5.0	.80	2.0Δ	16m	.45		0	6	PN16am	ML61a			
56	SN74S214AN	1024	1	S	BTD	45n	35n\$	550m	0.0	5.0	.80	2.0Δ	16m	.45		0	6	PN16am	ML48			
57	SN74S314AJ	1024	1	S	BTD	45n	35n\$	550m	0.0	5.0	.80	2.0Δ	16m	.45		0	6	PN16am	ML61a			
58	SN74S314AN	1024	1	S	BTD	45n	35n\$	550m	0.0	5.0	.80	2.0Δ	16m	.45		0	6	PN16am	ML48			
59	N93L425N	1024	1	S	BTD	60n	45n\$	325m	0.0	5.0	.85	2.1Δ	16m	.45		0	7	A242	ML132			
60#	RC82S11F	1024	1	S	BTD	60n	60n	775m	0.0	5.0	.80	2.0Δ	16m	.50		5	C	A242	ML127r			
61	S82LS10N	1024	1	S	BTD	70n	50n\$	375m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML132			
62	S82LS11N	1024	1	S	BTD	70n	50n\$	375m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML132			
63	S82S10N	1024	1	S	BTD	70n	50n\$	850m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML132			
64	S82S11N	1024	1	S	BTD	70n	50n\$	850m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML132			
65	S93L415F	1024	1	S	BTD	70n	50n\$	375m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML127r			
66	S93L415N	1024	1	S	BTD	70n	50n\$	375m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML132			
67	S93L425F	1024	1	S	BTD	70n	50n\$	375m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML127r			
68	S93L425N	1024	1	S	BTD	70n	50n\$	375m	0.0	5.0	.80	2.1Δ	16m	.50		5	C	A242	ML132			
69	SN74S214J	1024	1	S	BTD	70n	50n\$	550m	0.0	5.0	.80	2.0Δ	16m	.45		0	6	PN16am	ML61a			
70	SN74S214N	1024	1	S	BTD	70n	50n\$	550m	0.0	5.0	.80	2.0Δ	16m	.45		0	6	PN16am	ML48			
71	SN74S314J	1024	1	S	BTD	70n	50n\$	550m	0.0	5.0	.80	2.0Δ	16m	.45		0	6	PN16am	ML61a			
72	SN74S314N	1024	1	S	BTD	70n	50n\$	550m	0.0	5.0	.80	2.0Δ	16m	.45		0	6	PN16am	ML48			
73	SN54LS215J	1024	1	S	BTD	75n∅	75n\$	200m	0.0	5.0	.80	2.0Δ	16m	.50		5	C	PN16ak	ML61a			
74	SN54LS315J	1024	1	S	BTD	75n∅	75n\$	200m	0.0	5.0	.80	2.0Δ	16m	.50		5	C	PN16ak	ML61a			
75	SN54S214J	1024	1	S	BTD	75n	55n\$	550m	0.0	5.0	.80	2.0Δ	16m	.50		5	C	PN16am	ML61a			
76	SN54S314J	1024	1	S	BTD	75n	55n\$	550m	0.0	5.0	.80	2.0Δ	16m	.50		5	C	PN16am	ML61a			

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 M O D E	4 S T R U C T U R E C O D E	5 M A X A C C E S S T I M E (s)	M A X W R I T E C Y C L E T I M E (s)	M A X O P E R. P O W E R D I S S. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT @ OUT		MIN CLOCK FREQ. (Hz)	O P E R. T E M P. R A N G E C O D E	DRAWINGS	
		1 N o. W O R D S	2 B I T S P E R W O R D						N E G. (V)	P O S. (V)	M A X '0' (V)	M I N '1' (V)	(A)	(V)			L O G I C/ B L O C K	O U T L I N E
1	MCM93425PC	1024	1	S	BTX	45n	30n	850m	0.0	5.0	80	2.1	16m	.45	0	7	A256	ML376
2	N82S10I	1024	1	S	BTX	45n	45n	800m	0.0	5.0	85	2.1	16m	.45	0	7	A242	ML107
3	N82S11I	1024	1	S	BTX	45n	45n	800m	0.0	5.0	85	2.1	16m	.45	0	7	A242	ML107
4#	N93L415F	1024	1	S	BTX	45n	45n	325m	0.0	5.0	85	2.1	16m	.45	0	7	A242	ML127r
5#	N93L415N	1024	1	S	BTX	45n	45n	325m	0.0	5.0	85	2.1	16m	.45	0	7	A242	ML132
6#	UPB2205D	1024	1	S	BTX	50n	60n	775m	0.0	5.0	80	2.0	16m	.50	0	2	A256	ML60e
7	93L415DC	1024	1	S	BTX	60n	45n	325m	0.0	5.0	80	2.1	16m	.50	0	7	A97	ML127e
8	93L415FC	1024	1	S	BTX	60n	45n	325m	0.0	5.0	80	2.1	16m	.50	0	7	A97	FL14
9	93L415PC	1024	1	S	BTX	60n	45n	325m	0.0	5.0	80	2.1	16m	.50	0	7	A97	ML170
10	93L425DC	1024	1	S	BTX	60n	45n	325m	0.0	5.0	80	2.1	16m	.50	0	7	A163	ML127e
11	93L425FC	1024	1	S	BTX	60n	45n	325m	0.0	5.0	80	2.1	16m	.50	0	7	A163	FL14
12	93L425PC	1024	1	S	BTX	60n	45n	325m	0.0	5.0	80	2.1	16m	.50	0	7	A163	ML170
13	93415DM	1024	1	S	BTX	60n	40n	850m	0.0	5.0	80	2.1	16m	.45	5	C	A97	ML127e
14	93415FM	1024	1	S	BTX	60n	40n	850m	0.0	5.0	80	2.1	16m	.45	5	C	A97	FL14
15	MCM93415DM	1024	1	S	BTX	60n	40n	850m	0.0	5.0	80	2.1	16m	.45	5	C	A256	ML372
16	MCM93415FM	1024	1	S	BTX	60n	40n	850m	0.0	5.0	80	2.1	16m	.45	5	C	A256	ML376
17	MCM93425DM	1024	1	S	BTX	60n	40n	850m	0.0	5.0	80	2.1	16m	.45	5	C	A256	ML372
18	MCM93425FM	1024	1	S	BTX	60n	40n	850m	0.0	5.0	80	2.1	16m	.45	5	C	A256	ML376
19	93L415DM	1024	1	S	BTX	70n	50n	375m	0.0	5.0	80	2.1	16m	.50	5	C	A97	ML127e
20	93L415FM	1024	1	S	BTX	70n	50n	375m	0.0	5.0	80	2.1	16m	.50	5	C	A97	FL14
21	93L425DM	1024	1	S	BTX	70n	50n	375m	0.0	5.0	80	2.1	16m	.50	5	C	A163	ML127e
22	93L425FM	1024	1	S	BTX	70n	50n	375m	0.0	5.0	80	2.1	16m	.50	5	C	A163	FL14
23	93425DC	1024	1	S	BTX	70n	50n	775m	0.0	5.0	80	2.1	16m	.45	0	7	A163	ML98a
24	93425PC	1024	1	S	BTX	70n	50n	775m	0.0	5.0	80	2.1	16m	.45	0	7	A163	ML170
25#	HM2510	1024	1	S	BTX	70n	50n	775m	0.0	5.0	80	2.1	16m	.45	0	7	A256	ML217
26#	HM2511	1024	1	S	BTX	70n	50n	775m	0.0	5.0	80	2.1	16m	.45	0	7	A163	ML89h
27#	RC2S211	1024	1	S	BTX	70n	75n	850m	0.0	5.0	80	2.1	16m	.50	5	C	A242	ML107
28	93425DM	1024	1	S	BTX	75n	55n	850m	0.0	5.0	80	2.1	16m	.45	5	C	A163	ML98a
29	93425FM	1024	1	S	BTX	75n	55n	850m	0.0	5.0	80	2.1	16m	.45	5	C	A163	FL14
30	N82S08I	1024	1	S	BTX	80n	35n	300m	0.0	5.0	85	2.0	16m	.45	0	7	A210	ML107
31	MCM6518C-25	1024	1	S	HCG	200n	350n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML387
32	MCM6518P-25	1024	1	S	HCG	200n	350n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML388
33	MCM6508C-25	1024	1	S	HCG	250n	350n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML372
34	MCM6508P-25	1024	1	S	HCG	250n	350n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML376
35	MCM6508C-30	1024	1	S	HCG	300n	450n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML372
36	MCM6518C-30	1024	1	S	HCG	300n	450n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML387
37	MCM6518P-30	1024	1	S	HCG	300n	450n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML388
38	MCM6508P-30	1024	1	S	HCG	350n	450n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML376
39	MCM6508C-46	1024	1	S	HCG	460n	730n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML372
40	MCM6508P-46	1024	1	S	HCG	460n	730n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML376
41	MCM6518P-46	1024	1	S	HCG	460n	730n	200m	0.0	5.0	0.8	2.0	1.0u	#	0	6	A491	ML388
42	IM5608A-1ID	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	4	8	A509	ML395
43	IM5608A-1IJ	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	4	8	A509	ML396
44	IM5608A-1MD	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	ML395
45	IM5608A-1MF	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	FL76
46	IM5608A-1MS	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	ML396
47	IM6518A-1ID	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	4	8	A509	ML397
48	IM6518A-1IJ	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	4	8	A509	ML398
49	IM6518A-1MD	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	ML397
50	IM6518A-1MF	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	FL77
51	IM6518A-1MS	1024	1	S	MCG	95n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	ML398
52	IM5608AID	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	4	8	A509	ML395
53	IM5608AIJ	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	4	8	A509	ML396
54	IM5608AMD	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	ML395
55	IM5608AMF	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	FL76
56	IM5608AMJ	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	ML396
57	IM6518AID	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	4	8	A509	ML397
58	IM6518AIJ	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	4	8	A509	ML398
59	IM6518AMD	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	ML397
60	IM6518AMF	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	FL77
61	IM6518AMJ	1024	1	S	MCG	150n		5.0u	0.0	11	80	9.0	1.0u	#	5	C	A509	ML398
62	NMC6508BJ-2	1024	1	S	MCG	180n	280n	50u	0.0	5.0	80	3.0	3.2m	.40	5	C	A402	ML280
63	NMC6508BJ-9	1024	1	S	MCG	180n	280n	50u	0.0	5.0	80	3.0	3.2m	.40	4	8	A402	ML280
64	NMC6508BN-9	1024	1	S	MCG	180n	280n	50u	0.0	5.0	80	3.0	3.2m	.40	4	8	A402	ML178
65	NMC6518AJ-9	1024	1	S	MCG	180n	280n	50u	0.0	5.0	80	3.0	3.2m	.40	4	8	A188	
66	NMC6518BJ-2	1024	1	S	MCG	180n	280n	50u	0.0	5.0	80	3.0	3.2m	.40	5	C	A475	ML194e
67	NMC6518BJ-9	1024	1	S	MCG	180n	280n	50u	0.0	5.0	80	3.0	3.2m	.40	4	8	A475	ML194e
68	NMC6518BN-9	1024	1	S	MCG	180n	280n	50u	0.0	5.0	80	3.0	3.2m	.40	4	8	A475	ML196
69#	MM74C929J	1024	1	S	MCG	240n	255n*	500m	0.0	5.0	80	3.0	1.0u	5.0	4	8	M352	ML
70	MM74C929N	1024	1	S	MCG	240n	255n*	500m	0.0	5.0	80	3.0	2.0m	.40	4	8	A352	ML178
71#	MM74C930J	1024	1	S	MCG	240n	255n*	500m	0.0	5.0	80	3.0	1.0u	5.0	4	8	M352a	ML
72	MM74C930N	1024	1	S	MCG	240n	255n*	500m	0.0	5.0	80	3.0	2.0m	.40	4	8	A352a	ML196
73	NMC6508J-2	1024	1	S	MCG	250n	350n	50u	0.0	5.0	80	3.0	3.2m	.40	5	C	A402	ML280
74	NMC6508J-9	1024	1	S	MCG	250n	350n	50u	0.0	5.0	80	3.0	3.2m	.40	4	8	A402	ML280
75	NMC6508N-9	1024	1	S	MCG	250n	350n	50u	0.0	5.0	80	3.0	3.2m	.40	4	8	A402	ML178
76	NMC6518J-2	1024	1	S	MCG	250n	350n	50u	0.0	5.0	80	3.0	3.2m	.40	5	C	A475	ML194e
77	NMC6518J-9	1024	1	S	MCG	250n	350n	50u	0.0	5.0	80	3.0	3.2m	.				

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)NO.WORDS(2)NO.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION			3 M O D E	4 S T R U C T U R E C O D E	5 M A X A C C E S S T I M E (s)	M A X W R I T E C Y C L E T I M E (s)	M A X O P E R. P O W E R D I S S. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		M I N O U T P U T S I N K C U R R E N T (A)	M I N C L O C K F R E Q. (Hz)	O P E R. T E M P. R A N G E C O D E	DRAWINGS	
		1 N O. W O R D S	2 B I T S P E R W O R D	N E G. (V)						P O S. (V)	M A X '0' (V)	M I N '1' (V)	L O G I C/ B L O C K				O U T L I N E	
																		3 M O D E	4 S T R U C T U R E C O D E
1#	UPD443C	1024	1	S	MCG	450n	300n\$	500u	0.0	5.0	.80	3.0	2.0m	.45	4 8	A256	ML349	
2#	UPD443D	1024	1	S	MCG	450n	300n\$	500u	0.0	5.0	.80	3.0	2.0m	.45	4 8	A256	ML60d	
3	IM5608ID	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		4 8	A509	ML395	
4	IM5608IJ	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		4 8	A509	ML399	
5	IM5608IP	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		4 8	A509	ML399	
6	IM5608MD	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A509	ML395	
7	IM5608MF	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A509	FL76	
8	IM5608MJ	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A509	ML396	
9	IM5608IDE	1024	1	S	MCG	460n	300n\$	500u†	0.0	5.0	.80	3.0s	2.0m	.45	4 8	A188a	ML1a	
10	IM6518ID	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		4 8	A509	ML397	
11	IM6518IJ	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		4 8	A509	ML398	
12	IM6518IP	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		4 8	A509	ML402	
13	IM6518MD	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A509	ML397	
14	IM6518MF	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A509	FL77	
15	IM6518MJ	1024	1	S	MCG	460n		5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A509	ML398	
16	MCM146508L	1024	1	S	MCG	460n	760n*	25u†	0.0	5.0	.80	3.0s	2.0m	.40	4 8	A402	ML372	
17	MCM146508P	1024	1	S	MCG	460n	760n*	25u†	0.0	5.0	.80	3.0s	2.0m	.40	4 8	A402	ML376	
18	MCM146518L	1024	1	S	MCG	460n	760n*	25u†	0.0	5.0	.80	3.0s	2.0m	.40	4 8	A405	ML370	
19	MCM146518P	1024	1	S	MCG	460n	760n*	25u†	0.0	5.0	.80	3.0s	2.0m	.40	4 8	A405	ML265	
20#	TC5508P-1	1024	1	S	MCG	550n	700n*	55m	0.0	5.0	0.8	2.5	2.0m	0.4	3 8	A520	ML349	
21	IM5608CJ	1024	1	S	MCG	600n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		0 7	A509	ML396	
22	IM5608CP	1024	1	S	MCG	600n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		0 7	A509	ML399	
23	IM6518CJ	1024	1	S	MCG	600n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		0 7	A509	ML398	
24	IM6518CP	1024	1	S	MCG	600n		5.0u†	0.0	5.0	.80	3.0s	5.0uΔ		0 7	A509	ML402	
25#	HM435101	1024	1	S	MCG	650n	650n*	55m†	0.0	5.0	.65	2.2s	2.0m	.40	0 7	A267a	ML77g	
26#	CDP1821CE	1024	1	S	MCS	125n†	275n*	500mΔ	0.0	6.5	1.5	3.5	2.0m	0.4	4 8		MO001AC	
27#	CDP1821D	1024	1	S	MCS	125n†	275n*	500mΔ	0.0	10	1.5	3.5	2.0m	0.4	5 C			
28	CDP1821SCD	1024	1	S	MCS	350n	150n\$	8.0m	0.5	7.0 #	.01%	4.9	3.5m	.50	2 8	A498	ML140	
29	CDP1821SD	1024	1	S	MCS	350n	150n\$	5.0m	0.5	11 #	.01%	4.9	3.5m	.50	2 8	A498	ML140	
30#	HEF4736B	1024	1	S	MCX			400mΔ	0.0	15	4.0	1.1s	2.4m	1.5	4 8	A362	ML2g	
31#	HEF4736P	1024	1	S	MCX			400mΔ	0.0	15	4.5	10.5	3.6m	.50	4 8	A362	ML2	
32	IM65X08A-1ID	1024	1	S	MCX	125n		55u†	0.0	10	.80	7.0s	1.0uΔ		4 8	A505	ML395	
33	IM65X08A-1IJ	1024	1	S	MCX	125n		55u†	0.0	10	.80	7.0s	1.0uΔ		4 8	A505	ML396	
34	IM65X18A-1ID	1024	1	S	MCX	125n		55u†	0.0	10	.80	7.0s	1.0uΔ		0 7	A505	ML397	
35	IM65X18A-1IJ	1024	1	S	MCX	125n		55u†	0.0	10	.80	7.0s	1.0uΔ		0 7	A505	ML398	
36	IM65X08-1ID	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		4 8	A505	ML395	
37	IM65X08-1IJ	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		4 8	A505	ML396	
38	IM65X08-1MD	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	ML395	
39	IM65X08-1MF	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	FL76	
40	IM65X08-1MJ	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	ML396	
41	IM65X18-1ID	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		0 7	A505	ML397	
42	IM65X18-1IJ	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		0 7	A505	ML398	
43	IM65X18-1MD	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	ML397	
44	IM65X18-1MF	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	FL77	
45	IM65X18-1MJ	1024	1	S	MCX	180n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	ML398	
46	IM65X08A-1MD	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	ML395	
47	IM65X08A-1MF	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	FL76	
48	IM65X08A-1MJ	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	ML396	
49	IM65X08AID	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		4 8	A505	ML395	
50	IM65X08AIJ	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		4 8	A505	ML396	
51	IM65X08AMD	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	ML395	
52	IM65X08AMF	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	FL76	
53	IM65X08AMJ	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	ML396	
54	IM65X18A-1MF	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	FL77	
55	IM65X18A-1MJ	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	ML398	
56	IM65X18AID	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		0 7	A505	ML397	
57	IM65X18AIJ	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		0 7	A505	ML398	
58	IM65X18AMD	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	ML397	
59	IM65X18AMF	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	FL77	
60	IM65X18AMJ	1024	1	S	MCX	200n		55u†	0.0	10	.80	7.0s	1.0uΔ		5 C	A505	ML398	
61	IM65X08ID	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	ML396	
62	IM65X08IJ	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	5.0uΔ		4 8	A505	ML395	
63	IM65X08IJ	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	5.0uΔ		4 8	A505	ML396	
64	IM65X08MD	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	ML395	
65	IM65X08MF	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	FL76	
66	IM65X18ID	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		0 7	A505	ML397	
67	IM65X18IJ	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		0 7	A505	ML398	
68	IM65X18MD	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	ML397	
69	IM65X18MF	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	FL77	
70	IM65X18MJ	1024	1	S	MCX	250n		55u†	0.0	5.0	.80	3.0s	1.0uΔ		5 C	A505	ML398	
71	IM65X08CJ	1024	1	S	MCX	300n		55u†	0.0	5.0	.80	3.0s	5.0uΔ		0 7	A505	ML396	
72	IM65X18CJ	1024	1	S	MCX	300n		55u†	0.0	5.0	.80	3.0s	5.0uΔ		0 7	A505	ML398	
73	S6508-1	1024	1	S	MCX	300n	300n	10m	0.0	5.0	.80	3.0s	2.0m	.45	0 7	A461	ML4d	
74#	SCM5102-1	1024	1	S	MCX	450n	450n*	135m	0.0	5.0	.80	2.0s	2.0m	.40	0 7	A530	ML2j	
75	S6508	1024	1	S	MCX	460n	460n	10m	0.0	5.0	.80	3.0s	2.0m	.45	0 7	A461	ML4d	
76	S6508A	1024	1	S	MCX	460n	460n	21m	0.0	10	2.0	7.0s	2.0m	.45	0 7	A461	ML4d	
77	4736BDC	1024	1	S	MCX	500n†	180n†	1.3m	0.0	5.0	1.5	3.5s	400u	.40	4 8	A344	ML157e	
78	4736BDM	1024	1	S	MCX	500n†	180n†	1.3m	0.0	5.0	1.5	3.5s	400u	.40	5 C	A344	ML157e	
79	4736BFC	1024	1	S														

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX. ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION				MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE (°C)	DRAWINGS	
		1 No. WORDS	2 BITS PER WORD	3 MODE	4 STRUCTURE				NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)			LOGIC/BLOCK	OUTLINE
1	MD2115AL	1024	1	S	MNG	75n	55n*	413m	0.0	5.0	.80	2.1Δ	10n	.45	5 C	A256	ML157c	
2	MD2125AL	1024	1	S	MNG	75n	55n*	413m	0.0	5.0	.80	2.1Δ	5.0m	.45	5 C	A256	ML157c	
3	21F02-2F	1024	1	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118a	ML127r	
4	21F02-2I	1024	1	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118a	ML107a	
5	21F02-2N	1024	1	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118a	ML132	
6	21L02HDC	1024	1	S	MNG	250n	250n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML321	
7	21L02HFC	1024	1	S	MNG	250n	250n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	FL14j	
8	21L02HPC	1024	1	S	MNG	250n	250n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML170	
9	21Q2HDC	1024	1	S	MNG	250n	250n*	275m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML321	
10	21Q2HDL	1024	1	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	ML321	
11	21Q2HDM	1024	1	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	ML321	
12	21Q2HFC	1024	1	S	MNG	250n	250n*	275m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	FL14j	
13	21Q2HFL	1024	1	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	FL14j	
14	21Q2HFM	1024	1	S	MNG	250n	250n*	350m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	FL14j	
15	21Q2HPC	1024	1	S	MNG	250n	250n*	275m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML170	
16	21Q2LHDC	1024	1	S	MNG	250n	250n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML321	
17	21Q2LHDL	1024	1	S	MNG	250n	250n*	200m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	ML321	
18	21Q2LHDM	1024	1	S	MNG	250n	250n*	200m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	ML321	
19	21Q2LHFC	1024	1	S	MNG	250n	250n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	FL14j	
20	21Q2LHFL	1024	1	S	MNG	250n	250n*	200m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	FL14j	
21	21Q2LHFM	1024	1	S	MNG	250n	250n*	200m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	FL14j	
22	21Q2LHPC	1024	1	S	MNG	250n	250n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML170	
23	AM9102DDC	1024	1	S	MNG	250n	250n*	250m	0.0	5.0	.80	2.0	3.2m	.40	0 7	A159	ML127k	
24	AM9102DPC	1024	1	S	MNG	250n	250n*	250m	0.0	5.0	.80	2.0	3.2m	.40	0 7	A159	ML89a	
25	C2102A	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML358	
26	D2102A	1024	1	S	MNG	250n	250n*	325m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118	ML359	
27#	M2102AB1-2	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML301	
28#	M2102AD1-2	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML302	
29#	M2102AF1-2	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML300	
30#	M2102ALB1-2	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML301	
31#	M2102ALD1-2	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML302	
32#	M2102ALF1-2	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML300	
33	MM2102AJ-2	1024	1	S	MNG	250n	250n*	289m	0.0	5.0	.80	2.0Δ	3.2m	.40	0 7	A118	ML280	
34	MM2102AJ-2L	1024	1	S	MNG	250n	250n*	174m	0.0	5.0	.80	2.0Δ	3.2m	.40	0 7	A118	ML280	
35	MM2102AN-2	1024	1	S	MNG	250n	250n*	289m	0.0	5.0	.80	2.0Δ	3.2m	.40	0 7	A118	ML178	
36	MM2102AN-2L	1024	1	S	MNG	250n	250n*	174m	0.0	5.0	.80	2.0Δ	3.2m	.40	0 7	A118	ML178	
37	P2102A	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118	ML361	
38	P2102AL	1024	1	S	MNG	250n	250n*	342m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118	ML361	
39	AM9102CDC	1024	1	S	MNG	300n	300n*	165m	0.0	5.0	.80	2.0	3.2m	.40	0 7	A159	ML127k	
40	AM9102CDM	1024	1	S	MNG	300n	300n*	185m	0.0	5.0	.80	2.0	3.2m	.40	5 C	A159	ML62c	
41	AM9102CPC	1024	1	S	MNG	300n	300n*	185m	0.0	5.0	.80	2.0	3.2m	.40	0 7	A159	ML89a	
42	AM9102CDC	1024	1	S	MNG	300n	300n*	250m	0.0	5.0	.80	2.0	3.2m	.40	0 7	A159	ML127k	
43	AM9102CDM	1024	1	S	MNG	300n	300n*	275m	0.0	5.0	.80	2.0	3.2m	.40	5 C	A159	ML62c	
44	AM9102CPC	1024	1	S	MNG	300n	300n*	250m	0.0	5.0	.80	2.0	3.2m	.40	0 7	A159	ML89a	
45	21F02B	1024	1	S	MNG	350n	350n*	350m	0.0	5.0	.65	2.2	1.9m	.40	0 7	A118a	ML85	
46	21F02F	1024	1	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118a	ML127r	
47	21F02I	1024	1	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118a	ML107a	
48	21F02N	1024	1	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A118a	ML132	
49	21L02FDC	1024	1	S	MNG	350n	350n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML321	
50	21L02FFC	1024	1	S	MNG	350n	350n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	FL14j	
51	21L02FFC	1024	1	S	MNG	350n	350n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML170	
52	21Q2FDC	1024	1	S	MNG	350n	350n*	275m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML321	
53	21Q2FDL	1024	1	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	ML321	
54	21Q2FDM	1024	1	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	ML321	
55	21Q2FFC	1024	1	S	MNG	350n	350n*	275m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	FL14j	
56	21Q2FFL	1024	1	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	FL14j	
57	21Q2FFM	1024	1	S	MNG	350n	350n*	350m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	FL14j	
58	21Q2FFC	1024	1	S	MNG	350n	350n*	275m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML170	
59	21Q2LFDL	1024	1	S	MNG	350n	350n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML321	
60	21Q2LFDL	1024	1	S	MNG	350n	350n*	200m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	ML321	
61	21Q2LFDL	1024	1	S	MNG	350n	350n*	200m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	ML321	
62	21Q2LFFC	1024	1	S	MNG	350n	350n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	FL14j	
63	21Q2LFFL	1024	1	S	MNG	350n	350n*	200m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	FL14j	
64	21Q2LFFM	1024	1	S	MNG	350n	350n*	200m	0.0	5.0	.80	2.0Δ	2.1m	.40	5 8	A118	FL14j	
65	21Q2LFFC	1024	1	S	MNG	350n	350n*	150m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML170	
66	C2102A	1024	1	S	MNG	350n	350n*	289m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML358	
67	D2102A	1024	1	S	MNG	350n	350n*	275m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML359	
68#	M2102AB1	1024	1	S	MNG	350n	350n*	289m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML301	
69#	M2102AD1	1024	1	S	MNG	350n	350n*	289m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML302	
70#	M2102AF1	1024	1	S	MNG	350n	350n*	289m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML300	
71#	M2102ALB1	1024	1	S	MNG	350n	350n*	174m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML301	
72#	M2102ALD1	1024	1	S	MNG	350n	350n*	174m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML302	
73#	M2102ALF1	1024	1	S	MNG	350n	350n*	174m	0.0	5.0	.80	2.0	2.1m	.40	0 7	A380	ML300	
74	MM2102AJ	1024	1	S	MNG	350n	350n*	289m	0.0	5.0	.80	2.0Δ	3.2m	.40	0 7	A118	ML280	
75	MM2102AJ-L	1024	1	S	MNG	350n	350n*	174m	0.0	5.0	.80	2.0Δ	3.2m	.40	0 7	A118	ML280	
76	MM2102AN	1024	1	S	MNG	350n	350n*	289m	0.0	5.0	.80	2.0Δ	3.2m	.40	0 7	A118	ML178	
77	MM2102AN-L	1024	1	S	MNG	350n	350n*	174m	0.0	5.0	.80	2.0Δ	3.2m	.40	0 7	A118	ML178	
78	P2102A	1024	1	S	MNG	350n	350n*	289m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML361	
79	P2102AL	1024	1	S	MNG	350n	350n*	174m	0.0	5.0	.80	2.0Δ	2.1m	.40	0 7	A118	ML361	
80	21L02																	

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION			3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS			
		1	2	M							D	O	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)			(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1	2102L1PC	1024	1	S	MNG	450n	450n*	150m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A118	ML170				
2	C2102A4	1024	1	S	MNG	450n	450n*	289m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A118	ML358				
3	CM2102A4	1024	1	S	MNG	450n	450n*	1.0	0.0	5.0	.80	2.0	2.1m	.45	5	C	A118	ML10c				
4	D2102A4	1024	1	S	MNG	450n	450n*	275m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A118	ML359				
5	KMS4102	1024	1	S	MNG	450n	450n*Δ	370m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A380	ML336				
6	M5L2102AP-4	1024	1	S	MNG	450n	450n	200m	0.0	5.0	.65	2.2	2.1m	.40	0	7	A380	ML337				
7	M5L2102AS-4	1024	1	S	MNG	450n	450n	200m	0.0	5.0	.65	2.2	2.1m	.40	0	7	A380	ML301				
8	M2102AB1-4	1024	1	S	MNG	450n	450n*	289m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A380	ML302				
9	M2102AD1-4	1024	1	S	MNG	450n	450n*	289m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A380	ML300				
10	M2102AF1-4	1024	1	S	MNG	450n	450n*	289m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A380	ML301				
11	M2102ALB1-4	1024	1	S	MNG	450n	450n*	174m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A380	ML302				
12	M2102ALD1-4	1024	1	S	MNG	450n	450n*	174m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A380	ML300				
13	M2102ALF1-4	1024	1	S	MNG	450n	450n*	174m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A380	ML280				
14	MM2102AJ-4	1024	1	S	MNG	450n	450n*	289m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A118	ML280				
15	MM2102AJ-4L	1024	1	S	MNG	450n	450n*	174m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A118	ML280				
16	MM2102AN-4	1024	1	S	MNG	450n	450n*	289m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A118	ML178				
17	MM2102AN-4L	1024	1	S	MNG	450n	450n*	174m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A118	ML178				
18	P2102A4	1024	1	S	MNG	450n	450n*	289m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A118	ML361				
19	P2102AL4	1024	1	S	MNG	450n	450n*	174m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A118	ML85				
20	21L02-1B	1024	1	S	MNG	500n	500n*	500n*	12	5.0	.85	2.2	1.9m	.40	0	7	A118a	ML127r				
21	21L02-1F	1024	1	S	MNG	500n	500n*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML107a				
22	21L02-1I	1024	1	S	MNG	500n	500n*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML127k				
23	AM91L02ADC	1024	1	S	MNG	500n	500n*	150m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A159	ML127k				
24	AM91L02ADM	1024	1	S	MNG	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A159	ML62c				
25	AM91L02AFM	1024	1	S	MNG	500n	500n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A159	FL33b				
26	AM91L02APC	1024	1	S	MNG	500n	500n*	150m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A159	ML89a				
27	AM9102ADC	1024	1	S	MNG	500n	500n	260m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A159	ML127k				
28	AM9102ADM	1024	1	S	MNG	500n	500n	275m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A159	ML62c				
29	AM9102AFM	1024	1	S	MNG	500n	500n	275m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A159	FL33b				
30	AM9102APC	1024	1	S	MNG	500n	250n	260m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A159	ML89a				
31	C2102-1	1024	1	S	MNG	500n	500n*	350m	0.0	5.0	.65	2.2	1.9m	.45	0	7	A118b	ML127k				
32	P2102-1	1024	1	S	MNG	500n	500n*	350m	0.0	5.0	.65	2.2	1.9m	.45	0	7	A118b	ML89a				
33	2102-2F	1024	1	S	MNG	650n	650n*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML127r				
34	21L02-2I	1024	1	S	MNG	650n	650n*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML107a				
35	21L02-2N	1024	1	S	MNG	650n	650n*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML132				
36	21L02-2DC	1024	1	S	MNG	650n	650n*	150m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	ML321				
37	21L02-2FC	1024	1	S	MNG	650n	650n*	150m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	FL14j				
38	21L02-2PC	1024	1	S	MNG	650n	650n*	150m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	ML170				
39	2102-2DC	1024	1	S	MNG	650n	650n*	275m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	ML321				
40	2102-2DL	1024	1	S	MNG	650n	650n*	350m	0.0	5.0	.65	2.2s	2.1m	.40	5	8	A118	ML321				
41	2102-2DM	1024	1	S	MNG	650n	650n*	350m	0.0	5.0	.65	2.2s	2.1m	.40	5	C	A118	ML321				
42	2102-2FC	1024	1	S	MNG	650n	650n*	275m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	FL14j				
43	2102-2FL	1024	1	S	MNG	650n	650n*	350m	0.0	5.0	.65	2.2s	2.1m	.40	5	8	A118	FL14j				
44	2102-2FM	1024	1	S	MNG	650n	650n*	350m	0.0	5.0	.65	2.2s	2.1m	.40	5	C	A118	FL14j				
45	2102-2PC	1024	1	S	MNG	650n	650n*	275m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	ML170				
46	2102L2DC	1024	1	S	MNG	650n	650n*	150m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	ML321				
47	2102L2DL	1024	1	S	MNG	650n	650n*	200m	0.0	5.0	.65	2.2s	2.1m	.40	5	8	A118	ML321				
48	2102L2DM	1024	1	S	MNG	650n	650n*	200m	0.0	5.0	.65	2.2s	2.1m	.40	5	C	A118	ML321				
49	2102L2FC	1024	1	S	MNG	650n	650n*	150m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	FL14j				
50	2102L2FL	1024	1	S	MNG	650n	650n*	200m	0.0	5.0	.65	2.2s	2.1m	.40	5	8	A118	FL14j				
51	2102L2FM	1024	1	S	MNG	650n	650n*	200m	0.0	5.0	.65	2.2s	2.1m	.40	5	C	A118	FL14j				
52	2102L2PC	1024	1	S	MNG	650n	650n*	150m	0.0	5.0	.65	2.2s	2.1m	.40	0	7	A118	ML170				
53	AM91L02DC	1024	1	S	MNG	650n	650n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A159	ML127k				
54	AM91L02DM	1024	1	S	MNG	650n	650n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A159	ML62c				
55	AM91L02FM	1024	1	S	MNG	650n	650n*	175m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A159	FL33b				
56	AM91L02PC	1024	1	S	MNG	650n	650n*	175m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A159	ML89a				
57	AM9102DC	1024	1	S	MNG	650n	650n*	260m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A159	ML127k				
58	AM9102DM	1024	1	S	MNG	650n	650n*	260m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A159	ML62c				
59	AM9102FM	1024	1	S	MNG	650n	650n*	275m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A159	FL33b				
60	AM9102PC	1024	1	S	MNG	650n	650n*	260m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A159	ML89a				
61	C2102-2	1024	1	S	MNG	650n	650n*	350m	0.0	5.0	.65	2.2	1.9m	.45	0	7	A118b	ML127k				
62	C2102A6	1024	1	S	MNG	650n	650n*	289m	0.0	5.0	.65	2.2s	2.1m	.45	0	7	A118	ML358				
63	D2102A6	1024	1	S	MNG	650n	650n*	289m	0.0	5.0	.65	2.2s	2.1m	.45	0	8	A118	ML127a				
64	M2102AB1-6	1024	1	S	MNG	650n	650n*	289m	0.0	5.0	.65	2.2	2.1m	.45	0	7	A380	ML301				
65	M2102AD1-6	1024	1	S	MNG	650n	650n*	289m	0.0	5.0	.65	2.2	2.1m	.45	0	7	A380	ML302				
66	M2102AF1-6	1024	1	S	MNG	650n	650n*	289m	0.0	5.0	.65	2.2	2.1m	.45	0	7	A380	ML300				
67	MM2102AJ-6	1024	1	S	MNG	650n	650n*	289m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A118	ML280				
68	MM2102AJ-6L	1024	1	S	MNG	650n	650n*	174m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A118	ML280				
69	MM2102AN-6	1024	1	S	MNG	650n	650n*	289m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A118	ML178				
70	MM2102AN-6L	1024	1	S	MNG	650n	650n*	174m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A118	ML178				
71	P2102-2	1024	1	S	MNG	650n	650n*	350m	0.0	5.0	.65	2.2	1.9m	.45	0	7	A118b	ML89a				
72	P2102A6	1024	1	S	MNG	650n	650n*	289m	0.0	5.0	.65	2.2s	2.1m	.45	0	8	A118	ML361				
73	21L02-1N	1024	1	S	MNG	1.0u	1.0u*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML132				
74	21L02F	1024	1	S	MNG	1.0u	1.0u*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML127a				
75	21L02I	1024	1	S	MNG	1.0u	1.0u*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML107a				
76	21L02N	1024	1	S	MNG	1.0u	1.0u*	200m	0.0	5.0	.65	2.2s	1.9m	.45	0	7	A118a	ML132				
77	C2102	1024	1	S	MNG	1.0u	1.0u*	350m	0.0	5.0	.											

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	6	7	8	9	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE		DRAWINGS						
		1	2								MODE	STRUCTURE CODE	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	NEG. (V)		POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)	-	+	LOGIC/BLOCK	OUTLINE
1#	M58981P	1024	4	S	MCG	450n	450n	220m	0.0	5.0	.85	2.2s	2.0m	.40	0	7	A268	ML115								
2#	M58981S-45	1024	4	S	MCG	450n	450n	150m	0.0	5.0	.65	2.2s	2.0m	.40	0	7	A268	ML115								
3#	TC5514P	1024	4	S	MCG	450n	450n*	138m	0.0	5.0	0.65	2.2	2.0m	0.4	3	8	A521	ML31								
4#	TC5047AP-1	1024	4	S	MCG	550n	650n*	110m	0.0	5.0	0.6	3.0	1.6m	.40	3	8	A377	ML365								
5	MWS5114D	1024	4	S	MCG	650n	500n*	250u	0.0	5.0	.80	2.4s	2.0m	.40	5	8	A377	ML292								
6	MWS5114E	1024	4	S	MCG	650n	500n*	250u	0.0	5.0	.80	2.4s	2.0m	.40	4	8	A377	ML293								
7#	TC5514P-1	1024	4	S	MCG	650n	650n*	110m	0.0	5.0	0.65	2.2	2.0m	0.4	3	8	A521	ML31								
8#	TC5047AP-2	1024	4	S	MCG	800n	1.0u*	110m	0.0	5.0	0.6	3.0	1.6m	.40	3	8	A377	ML365								
9#	TC5514P-2	1024	4	S	MCG	800n	800n*	110m	0.0	5.0	0.65	2.2	2.0m	0.4	3	8	A521	ML31								
10#	CDP1825CD	1024	4	S	MCS	650n	400n†		5	7	0.8	2.4s	2.0m	0.4	5	8	A268	ML292								
11#	CDP1825CE	1024	4	S	MCS	650n	400n†		5	7	0.8	2.4s	2.0m	0.4	4	8	A268	ML295								
12#	CDP1825D	1024	4	S	MCS	650n	400n†		5	11	0.8	2.4s	2.0m	0.4	5	8	A268	ML292								
13#	CDP1825E	1024	4	S	MCS	650n	400n†		5	11	0.8	2.4s	2.0m	0.4	4	8	A268	ML295								
14	MCM146514L	1024	4	S	MCX				0.0	5.0					0	7	A394	ML264								
15	MCM146514P	1024	4	S	MCX				0.0	5.0					0	7	A394	ML265								
16#	HM6148LP	1024	4	S	MCX	70n	70n*	1.0	0.0	5.0	.80	2.0s	2.0uΔ	5.5	0	7	A325	ML165e								
17#	HM6148LP-6	1024	4	S	MCX	85n	85n*	1.0	0.0	5.0	.80	2.0s	2.0uΔ	5.5	0	7	A325	ML165e								
18#	MD21SC14AE10	1024	4	S	MCX	100n	100n*		0.0	5.0	.80	2.0s	10uΔ		0	7	A268	ML131								
19#	MD21SC14AE15	1024	4	S	MCX	150n	150n*		0.0	5.0	.80	2.0s	10uΔ		0	7	A268	ML131								
20#	MD21SC14AE25	1024	4	S	MCX	250n	250n*		0.0	5.0	.80	2.0s	10uΔ		0	7	A268	ML131								
21#	S6514	1024	4	S	MCX	300n\$	420n*	1.0m†	0.0	5.0	0.8	2.4s	1.0uΔ	5.0†	0	7	A372									
22#	uPD445LC-1	1024	4	S	MCX	450n	450n*	150m	0.0	5.0	.65	2.2	2.0m	.40	1	7	A448	ML365								
23#	uPD445LC	1024	4	S	MCX	650n	650n*	150m	0.0	5.0	.65	2.2	2.0m	.40	1	7	A448	ML365								
24	MK2148J-85	1024	4	S	MNX	70n	70n	500m	0.0	5.0	.80	2.0s	10uΔ		0	7	PN180	ML351								
25	MM1-RAM	1024	4	S	MNG			1.5	0.0	5.0	.80	2.0			0	7										
26	TMM314APL-1	1024	4	S	MNG		200n*Δ	850m	0.0	5.0	0.8	2.0			0	7										
27#	NMC2114AJ	1024	4	S	MNG	120n	120n*	1.2	0.0	5.0	.80	2.0s	8.0m	.40	0	7	A268	ML								
28#	NMC2114AN	1024	4	S	MNG	120n	120n*	1.2	0.0	5.0	.80	2.0s	8.0m	.40	0	7	A268	ML								
29#	NMC2114APJ	1024	4	S	MNG	120n	120n*	1.2	0.0	5.0	.80	2.0s	8.0m	.40	0	7	A268	ML								
30#	NMC2114APN	1024	4	S	MNG	120n	120n*	1.2	0.0	5.0	.80	2.0s	8.0m	.40	0	7	A268	ML								
31#	NMC2142AJ	1024	4	S	MNG	120n	120n*	1.2	0.0	5.0	.80	2.0s	8.0m	.40	0	7	A366									
32#	NMC2142AN	1024	4	S	MNG	120n	120n*	1.2	0.0	5.0	.80	2.0s	8.0m	.40	0	7	A366	ML								
33#	NMC2142APJ	1024	4	S	MNG	120n	120n*	1.2	0.0	5.0	.80	2.0s	8.0m	.40	0	7	A366	ML								
34#	NMC2142APN	1024	4	S	MNG	120n	120n*	1.2	0.0	5.0	.80	2.0s	8.0m	.40	0	7	A366	ML								
35	TMS4245JL	1024	4	S	MNG	120n	120n*	350m†	0.0	5.0	.80	2.0			0	7	PN18j	ML3b								
36	TMS4245NL	1024	4	S	MNG	120n	120n*	350m†	0.0	5.0	.80	2.0			0	7	PN18j	ML3k								
37	AM9404FDC	1024	4	S	MNG	150n∅		1.3	0.0	5.0	.80	2.4	3.2m	.40	0	7	A487	ML147								
38	EA2114L-15PC	1024	4	S	MNG	150n	150n	1.0	0.5	7.0	0.8	2.0			1	7	A268	ML165								
39	TMS2114L-15NL	1024	4	S	MNG	150n	150n	550m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A339	ML3K								
40	TMS2114L-15NL	1024	4	S	MNG	150n	150n	330m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A339	ML3K								
41#	uPD2114LC-5	1024	4	S	MNG	150n	150n*	357m	0.0	5.0	.80	2.0	3.2m	.40	1	8	A268	ML368								
42#	uPD2114LD-5	1024	4	S	MNG	150n	150n*	357m	0.0	5.0	.80	2.0	3.2m	.40	1	8	A268	ML226c								
43#	Z6114-2CS	1024	4	S	MNG	150n	240n*		0.0	5.0	-.30*	2.0			0	7	A527a	ML327								
44#	Z6114-2PS	1024	4	S	MNG	150n	240n*		0.0	5.0	-.30*	2.0			0	7	A527a	ML327								
45#	Z6142-2CS	1024	4	S	MNG	150n	240n*		0.0	5.0	-.30*	2.0			0	7	A527									
46#	Z6142-2PS	1024	4	S	MNG	150n	240n*		0.0	5.0	-.30*	2.0			0	7										
47	Z114-2CA	1024	4	S	MNG	200n	200n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML3j								
48	Z114-2CB	1024	4	S	MNG	200n	200n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML226a								
49	Z114-2CE	1024	4	S	MNG	200n	200n*	525m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML226								
50	Z142-2	1024	4	S	MNG	200n	200n*	525m	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A366									
51	Z2142-2	1024	4	S	MNG	200n	200n*	475m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A366	ML360a								
52	C2142L-2	1024	4	S	MNG	200n	200n*	325m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A366	ML360a								
53	D2114-2	1024	4	S	MNG	200n	200n*	525m	0.0	5.0	.80	2.0s	2.1m	.40	1	8	A268	ML359a								
54	D2114L2	1024	4	S	MNG	200n	200n*	370m	0.0	5.0	.80	2.0s	2.1m	.40	1	8	A268	ML359a								
55	EA2114L-20PC	1024	4	S	MNG	200n	200n	1.0	0.5	7.0	0.8	2.0			1	7	A268	ML165								
56	F2114-2DC	1024	4	S	MNG	200n	200n*	500m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A268	ML327								
57	F2114-2PC	1024	4	S	MNG	200n	200n*	500m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A268	ML3h								
58	F2114L2DC	1024	4	S	MNG	200n	200n*	250m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A268	ML327								
59	F2114L2PC	1024	4	S	MNG	200n	200n*	250m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A268	ML3h								
60	KMS4114	1024	4	S	MNG	200n	340n*Δ	150m	0.0	5.0					0	7										
61	L2114-2CA	1024	4	S	MNG	200n	200n*	368m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML3j								
62	L2114-2CB	1024	4	S	MNG	200n	200n*	368m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML226a								
63	L2114-2CE	1024	4	S	MNG	200n	200n*	368m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML226								
64#	M5L2114LP-2	1024	4	S	MNG	200n	200n	358m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML338								
65#	M5L2114LS-2	1024	4	S	MNG	200n	200n	358m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML337								
66#	MB8114EL	1024	4	S	MNG	200n	200n	1.0	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML134b								
67	MCM21L14-20L	1024	4	S	MNG	200n	200n*	325m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML370								
68	MCM21L14-20P	1024	4	S	MNG	200n	200n*	325m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML265								
69	MCM21L14C20	1024	4	S	MNG	200n	200n*	350m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A268	ML271								
70	MCM21L14P20	1024	4	S	MNG	200n	200n*	350m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A268	ML265								
71	MCM2114-20L	1024	4	S	MNG	200n	200n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML370								
72	MCM2114-20P	1024	4	S	MNG	200n	200n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A377	ML265								
73	MCM2114C20	1024	4	S	MNG	200n	200n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A268	ML271								
74	MCM2114P20	1024	4	S	MNG	200n	200n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A268	ML265								
75	MM2114J-2	1024	4	S	MNG	200n	200n	475m∅	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML194e								
76	MM2114J-2L	1024	4	S	MNG	200n	200n	475m∅	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML194e								
77	MM2114N-2	1024	4	S	MNG	200n	200n	475m∅	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML196								
78	MM2114N-2L	1024	4	S	MNG	200n	200n	475m∅	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268</									

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)NO.WORDS(2)NO.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION			3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS				
		1	2	M							S	D	E	NEG. (V)	POS. (V)	MAX '0' (V)			MIN '1' (V)	(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1	MCM2114P25	1024	4	S	MNG	250n	250n*	500m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A268	ML265					
2	TMS40L45-25NL	1024	4	S	MNG	250n	250n*	330m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A339	ML3K					
3	TMS2114-25NL	1024	4	S	MNG	250n	250n*	550m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A339	ML3K					
4	TMS2114L-25NL	1024	4	S	MNG	250n	250n*	330m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A339	ML3K					
5#	uPD2114LC-2	1024	4	S	MNG	250n	250n*	357m	0.0	5.0	80	2.0	3.2m	.40	1	8	A268	ML368					
6#	uPD2114LD-2	1024	4	S	MNG	250n	250n*	357m	0.0	5.0	80	2.0	3.2m	.40	1	8	A268	ML226c					
7#	Z6114-4CS	1024	4	S	MNG	250n	380n*	0.0	5.0	5.0	-30*	2.0			0	7	A527a	ML327					
8#	Z6114-4PS	1024	4	S	MNG	250n	380n*	0.0	5.0	5.0	-30*	2.0			0	7	A527a	ML327					
9#	Z6142-4CS	1024	4	S	MNG	250n	380n*	0.0	5.0	5.0	-30*	2.0			0	7	A527						
10#	Z6142-4PS	1024	4	S	MNG	250n	380n*	0.0	5.0	5.0	-30*	2.0			0	7	A527						
11	2114-3CA	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML3j					
12	2114-3CB	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML226a					
13	2114-3CE	1024	4	S	MNG	300n	300n*	525m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML226					
14	2142-3	1024	4	S	MNG	300n	300n*	525m	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A366						
15	2142L3	1024	4	S	MNG	300n	300n*	370m	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A366						
16	C2142-3	1024	4	S	MNG	300n	300n*	475m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A366	ML360a					
17	C2142L-3	1024	4	S	MNG	300n	300n*	325m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A366	ML360a					
18	D2114-3	1024	4	S	MNG	300n	300n*	525m	0.0	5.0	80	2.0	3.2m	.40	0	7	A268	ML359a					
19	D2114L3	1024	4	S	MNG	300n	300n*	385m	0.0	5.0	80	2.0	3.2m	.40	0	7	A268	ML359a					
20	EA2114L-30PC	1024	4	S	MNG	300n	300n	1.0	0.5	#	7.0	0.8	2.0		1	7	A268	ML165					
21	F2114-3DC	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A268	ML327					
22	F2114-3PC	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A268	ML3h					
23	F2114L3DC	1024	4	S	MNG	300n	300n*	250m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A268	ML327					
24	F2114L3PC	1024	4	S	MNG	300n	300n*	250m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A268	ML3h					
25#	HM4334P-3	1024	4	S	MNG	300n	480n	1.0	0.0	5.0	80	2.4s	1.0uΔ		0	7	A488	MLZ					
26#	HM472114-3	1024	4	S	MNG	300n	300n*	200m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A394	ML165c					
27#	HM472114P-3	1024	4	S	MNG	300n	300n*	300m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A394	ML165e					
28	L2114-3CA	1024	4	S	MNG	300n	300n*	368m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML3j					
29	L2114-3CB	1024	4	S	MNG	300n	300n*	368m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML226a					
30	L2114-3CE	1024	4	S	MNG	300n	300n*	368m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML226					
31#	M5L2114LP-3	1024	4	S	MNG	300n	300n	358m	0.0	5.0	80	2.0	2.1m	.40	0	7	A268	ML338					
32#	M5L2114LS-3	1024	4	S	MNG	300n	300n	358m	0.0	5.0	80	2.0	2.1m	.40	0	7	A268	ML337					
33	M2114-3MA	1024	4	S	MNG	300n	300n*	1.0	0.0	5.0	0.8	2.0s	1.0uΔ	.40	0	7	A328	ML383					
34	M2114-3ME	1024	4	S	MNG	300n	300n*	1.0	0.0	5.0	0.8	2.0s	1.0uΔ	.40	0	7	A328	ML382					
35	MCM2114-30L	1024	4	S	MNG	300n	300n	325m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML370					
36	MCM2114-30P	1024	4	S	MNG	300n	300n	325m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML265					
37	MCM2114C30	1024	4	S	MNG	300n	300n*	350m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A268	ML271					
38	MCM2114P30	1024	4	S	MNG	300n	300n*	350m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A268	ML265					
39	MCM2114-30L	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML370					
40	MCM2114-30P	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A377	ML265					
41	MCM2114C30	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A268	ML271					
42	MCM2114P30	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A268	ML265					
43	MCS2114-30	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A394	ML115e					
44	MCS2114L-30	1024	4	S	MNG	300n	300n*	350m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A394	ML115e					
45	MM2114J-3	1024	4	S	MNG	300n	300n*	475m	0.0	5.0	80	2.0	2.1m	.40	0	7	A268	ML194e					
46	MM2114J-3L	1024	4	S	MNG	300n	300n	475m	0.0	5.0	80	2.0	2.1m	.40	0	7	A268	ML194e					
47	MM2114N-3	1024	4	S	MNG	300n	300n	475m	0.0	5.0	80	2.0	2.1m	.40	0	7	A268	ML196					
48	MM2114N-3L	1024	4	S	MNG	300n	300n	475m	0.0	5.0	80	2.0	2.1m	.40	0	7	A268	ML196					
49	MPS2114-30	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A394	ML165f					
50	MPS2114L-30	1024	4	S	MNG	300n	300n*	350m	0.0	5.0	80	2.0s	3.2m	.40	0	7	A394	ML165f					
51#	MMSM2114-3RS	1024	4	S	MNG	300n	300n*	1.0	0.0	7.0	80	2.0	2.0m	.40	0	7	A268	MLZ					
52#	MMSM2114L-3	1024	4	S	MNG	300n	300n*	370m	0.0	5.0	80	2.0	10uΔ	5.5	0	7	A485	ML165g					
53#	MMSM5114-3AS	1024	4	S	MNG	300n	300n*	200u	0.0	5.0	80	2.4	1.0uΔ	5.0	0	7	A485	ML240					
54#	MMSM5114-3RS	1024	4	S	MNG	300n	300n*	200u	0.0	5.0	80	2.4	1.0uΔ	5.0	0	7	A485	ML165g					
55	N2114-JMA	1024	4	S	MNG	300n	300n*	1.0	0.0	5.0	0.8	2.0s	10uΔ	.40	0	7	A268	ML382					
56	N2114-JME	1024	4	S	MNG	300n	300n*	1.0	0.0	5.0	0.8	2.0s	10uΔ	.40	0	7	A268	ML382					
57	P2114-3	1024	4	S	MNG	300n	300n*	525m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A268	ML361a					
58	P2114L3	1024	4	S	MNG	300n	300n*	370m	0.0	5.0	80	2.0s	2.1m	.40	0	7	A268	ML361a					
59	SYC2142-3	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0	3.2m	.40	0	7	A366	ML392					
60	SYC2142L-3	1024	4	S	MNG	300n	300n*	350m	0.0	5.0	80	2.0	3.2m	.40	0	7	A366	ML392					
61	SYC2142LV-3	1024	4	S	MNG	300n	300n*	350m	0.0	5.0	80	2.0			0	7	A366a	ML392					
62	SYMC2114-3	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0	2.0m	.40	5	C	A377	ML115a					
63	SYP2142-3	1024	4	S	MNG	300n	300n*	500m	0.0	5.0	80	2.0	3.2m	.40	0	7	A366	ML391					
64	SYP2142L-3	1024	4	S	MNG	300n	300n*	350m	0.0	5.0	80	2.0	3.2m	.40	0	7	A366	ML391					
65	SYP2142LV-3	1024	4	S	MNG	300n	300n*	350m	0.0	5.0	80	2.0			0	7	A366a	ML391					
66#	TMM314AP-3	1024	4	S	MNG	300n	300n*	550m	0.0	5.0	0.8	2.0	2.1m	0.4	0	7	A485	ML3j					
67#	TMM314APL-3	1024	4	S	MNG	300n	300n*	385m	0.0	5.0	0.8	2.0	2.1m	0.4	0	7	A485	ML3j					
68#	uPD444C-2	1024	4	S	MNG	300n	300n*	0.0	5.0	80	2.4s	1.0uΔ		4	8	A518	ML368						
69#	uPD2114LC-1	1024	4	S	MNG	300n	300n*	357m	0.0	5.0	80	2.0	3.2m	.40	1	8	A268	ML368					
70#	uPD2114LD-1	1024	4	S	MNG	300n	300n*	357m	0.0	5.0	80	2.0	3.2m	.40	1	8	A268	ML226c					
71	V2114-UCB	1024	4	S	MNG	300n	300n*	315m	0.0	5.0	0.8	2.0s	10uΔ	.40	0	7	A268	ML382					
72	V2114-UCE	1024	4	S	MNG	300n	300n*	315m	0.0	5.0	0.8	2.0s	10uΔ	.40	0	7	A268	ML382					
73#	Z6114-5PS	1024	4	S	MNG	300n	440n*	0.0	5.0	5.0	-30*	2.0			0	7	A527	ML327					
74#	Z6142-5CS	1024	4	S	MNG	300n	440n*	0.0	5.0	5.0	-30*	2.0			0	7	A527						
75#	Z6142-5PS	1024	4	S	MNG	300n	440n*	0.0	5.0	5.0	-30*	2.0			0	7	A527						
76	AM9404CDC	1024	4	S	MNG	350n	350n	1.3	0.0	5.0	80	2.4	3.2m	.40	0	7	A487	ML147					
77	AM9404CDM	1024	4	S	MNG	350n	350n	1.3	0.0	5.0	80	2.4	3.2m	.40	5	C	A487</						

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD

(3)MODE(4)STRUCT.(5)MAX. ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION			3 M O D E	4 S T R U C T U R E C O D E	5 M A X A C C E S S T I M E (s)	M A X W R I T E C Y C L E T I M E (s)	M A X O P E R. P O W E R D I S S. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK		MIN CLOCK FREQ. (Hz)	O P E R. T E M P. R A N G E C O D E	DRAWINGS	
		1 N o. W O R D S	2 B I T S P E R W O R D	M O D E						N E G. (V)	P O S. (V)	M A X '0' (V)	M I N '1' (V)	C U R R E N T (A)	O U T (V)			L O G I C/ B L O C K	O U T L I N E
1	MCS2114P	1024	4	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0 _s	2.1m	.40	0	7	A268	ML115a	
2	MCS2114-45	1024	4	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML115a	
3	MCS2114L-45	1024	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML115a	
4	MCT2114-45	1024	4	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML115a	
5	MCT2114L-45	1024	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML115a	
6	MD2114	1024	4	S	MNG	450n	450n*	575m	0.0	5.0	.80	2.0 _s	2.1m	.40	6	E	A268	ML228	
7	MM2114J	1024	4	S	MNG	450n	450n	475m \emptyset	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML194a	
8	MM2114J-L	1024	4	S	MNG	450n	450n	475m \emptyset	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML194a	
9	MM2114N	1024	4	S	MNG	450n	450n	475m \emptyset	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML196	
10	MM2114N-L	1024	4	S	MNG	450n	450n	475m \emptyset	0.0	5.0	.80	2.0	2.1m	.40	0	7	A268	ML196	
11#	MN2114	1024	4	S	MNG	450n	450n*	350m \dagger	0.0	5.0	.80	2.4			1	8	A268	ML355	
12	MPS2114-45	1024	4	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML165f	
13	MPS2114L-45	1024	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML164f	
14	MPT2114-45	1024	4	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML165f	
15	MPT2114L-45	1024	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML164f	
16#	MMS2114	1024	4	S	MNG	450n	450n*	1.0	0.0	7.0	.80	2.0	2.0m	.40	0	7	A268	ML12	
17	P2114	1024	4	S	MNG	450n	450n*	525m	0.0	5.0	.80	2.0 _s	2.1m	.40	0	7	A268	ML361a	
18	P2114L	1024	4	S	MNG	450n	450n*	370m	0.0	5.0	.80	2.0 _s	2.1m	.40	0	7	A268	ML361a	
19	SYC2142	1024	4	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A366	ML392	
20	SYC2142L	1024	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A366	ML392	
21	SYC2142LV	1024	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A366a	ML392	
22	SYMC2114	1024	4	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0	2.0m	.40	5	C	A377	ML115e	
23	SY2142	1024	4	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0	2.0m	.40	0	7	A366	ML391	
24	SY2142L	1024	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A366	ML12	
25	SY2142LV	1024	4	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A366a	ML391	
26#	TMM314AP	1024	4	S	MNG	450n	450n*	550m	0.0	5.0	0.8	2.0	2.1m	.40	0	7	A485	ML3j	
27#	TMM314APL	1024	4	S	MNG	450n	450n*	385m	0.0	5.0	0.8	2.0	2.1m	.40	0	7	A485	ML3j	
28	TMS40L45-45NL	1024	4	S	MNG	450n	450n	330m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A339	ML3k	
29	TMS2114-45NL	1024	4	S	MNG	450n	450n	550m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A339	ML3k	
30	TMS2114L-45NL	1024	4	S	MNG	450n	450n	330m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A339	ML3k	
31#	uPD2114LC	1024	4	S	MNG	450n	450n*	357m	0.0	5.0	.80	2.0	3.2m	.40	1	8	A268	ML368	
32#	uPD2114LD	1024	4	S	MNG	450n	450n*	357m	0.0	5.0	.80	2.0	3.2m	.40	1	8	A268	ML226c	
33	MPS2114-50	1024	4	S	MNG	500n	500n*	500m	0.0	5.0	.80	2.0 _s	3.2m	.40	0	7	A394	ML165f	
34	SYC2114-2	1024	4	S	MNI	200n	200n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
35	SYC2114L-2	1024	4	S	MNI	200n	200n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
36	SYC2114LV-2	1024	4	S	MNI	200n	200n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
37	SY2114-2	1024	4	S	MNI	200n	200n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
38	SY2114L-2	1024	4	S	MNI	200n	200n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
39	SY2114LV-2	1024	4	S	MNI	200n	200n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
40	SYC2114-3	1024	4	S	MNI	300n	300n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
41	SYC2114L-3	1024	4	S	MNI	300n	300n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
42	SYC2114LV-3	1024	4	S	MNI	300n	300n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
43	SY2114-3	1024	4	S	MNI	300n	300n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
44	SY2114L-3	1024	4	S	MNI	300n	300n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
45	SY2114LV-3	1024	4	S	MNI	300n	300n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
46	SYC2114	1024	4	S	MNI	450n	450n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
47	SYC2114L	1024	4	S	MNI	450n	450n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
48	SYC2114LV	1024	4	S	MNI	450n	450n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML115a	
49	SY2114	1024	4	S	MNI	450n	450n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
50	SY2114L	1024	4	S	MNI	450n	450n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
51	SY2114LV	1024	4	S	MNI	450n	450n*	1.0	0.0	5.0	.80	2.0	3.2m	.40	0	7	A377	ML165	
52	4104USC	1024	4	S	MNX	200n	350n*	750m	5.0	12	.70	2.4 _s	2.0m	.50	3	8	A283	ML162b	
53	AM9114EDC	1024	4	S	MNX	200n \emptyset	200n*	368m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A485	ML194f	
54	AM9114EPC	1024	4	S	MNX	200n \emptyset	200n*	368m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A485	ML31	
55	AM9124EDC	1024	4	S	MNX	200n \emptyset	200n*	368m	0.0	5.0	.80	2.0	4.0m	.40	0	7	A485	ML194f	
56	AM9124EPC	1024	4	S	MNX	200n \emptyset	200n*	368m	0.0	5.0	.80	2.0	4.0m	.40	0	7	A485	ML31	
57	IM2114-2CJN	1024	4	S	MNX	200n	200n*	1.0	0.0	5.0	.80	2.0	10u Δ		0	7	A268	ML398	
58	IM2114-2CPN	1024	4	S	MNX	200n	200n*	525m	0.0	5.0	.80	2.0	10u Δ		0	7	A268	ML402	
59	IM2114-L2CJN	1024	4	S	MNX	200n	200n*	1.0	0.0	5.0	.80	2.0	10u Δ		0	7	A268	ML398	
60	IM2114-L2MJN	1024	4	S	MNX	200n	200n*	1.0	0.0	5.0	.80	2.0	10u Δ		5	C	A268	HL398	
61	IM2114L2CPN	1024	4	S	MNX	200n	200n*	385m	0.0	5.0	.80	2.0	10u Δ		0	7	A268	ML402	
62	IM2114L2MJN/883B	1024	4	S	MNX	200n	200n*	1.0	0.0	5.0	.80	2.0	10u Δ		5	C	A268	ML398	
63	M4104USC	1024	4	S	MNX	200n	350n*	750m	5.0	12	.70	2.4 _s	2.0m	.50	3	8	A283	ML162b	
64#	4104UMC	1024	4	S	MNX	250n	400n*	750m	5.0	12	.70	2.4 _s	2.0m	.50	5	C	A514	ML162b	
65#	M4104UMC	1024	4	S	MNX	250n	400n*	750m	5.0	12	.70	2.4 _s	2.0m	.50	5	C	A514	ML162b	
66#	21143MA	1024	4	S	MNX	300n	300n*	300m \dagger	0.0	5.0	0.8	2.0 _s	10u Δ	0.4	5	9	A377	ML226a	
67	AM91L14CDC	1024	4	S	MNX	300n \emptyset	300n*	262m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A485	ML194f	
68	AM91L14CDM	1024	4	S	MNX	300n \emptyset	300n*	262m	0.0	5.0	.80	2.0	3.2m	.40	5	C	A485	ML134L	
69	AM91L14CPC	1024	4	S	MNX	300n \emptyset	300n*	262m	0.0	5.0	.80	2.0	3.2m	.40	0	7	A485	ML31	
70	AM91L24CDC	1024	4	S	MNX	300n \emptyset	300n*	262m	0.0	5.0	.80	2.0	4.0m	.40	0	7	A485	ML194f	
71	AM91L24CDM	1024	4	S	MNX	300n \emptyset	300n*	262m	0.0	5.0	.80	2.0	4.0m	.40	5	C	A485	ML134L	
72	AM91L24CPC	1024	4	S	MNX	300n \emptyset	300n*	262m	0.0	5.0	.80	2.0	4.0m	.40	0	7	A485	ML31	
73	AM9114CDC	1024	4	S	MNX	300n \emptyset	300n*	368m	0.0	5.0	.80	2.0	3.2m	.40	0				

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS		
		1	2						STRUCTURE CODE	NEG. (V)	POS. (V)	'0' (V)	'1' (V)	(A)			@ OUT (V)	LOGIC/BLOCK	OUTLINE
1	L2114-UCA	1024	4	S	MNX	450n	450n*	315m	0.0	5.0	0.8	2.0s	10uΔ			-	A377	ML226a	
2	L2114UCB	1024	4	S	MNX	450n	450n*	315m	0.0	5.0	0.8	2.0s	2.1m	.40	0	7	A377	ML226a	
3	L2114UCE	1024	4	S	MNX	450n	450n*	315m	0.0	5.0	0.8	2.0s	2.1m	.40	0	7	A377	ML226	
4	L2114UMA	1024	4	S	MNX	450n	450n*	300m†	0.0	5.0	0.8	2.0s	10uΔ	0.4	5	9	A377	ML226a	
5	M2114-UMA	1024	4	S	MNX	450n	450n*	525m	0.0	5.0	0.8	2.4s	2.1m	.40	5	5	A328	ML134k	
6	MSM5115-2	1024	4	S	MXG	200n	310n*	33m	0.0	6.0	4.0	4.2			0	7	A372	ML240	
7	MSM5115-3	1024	4	S	MXG	300n	420n*	33m	0.0	6.0	4.0	4.2			0	7	A372	ML240	
8	2114AL-1	1024	4	S	MXX	100n	100n*	1.0 □	0.0	5.0	0.8	2.0s	10uΔ		0	7	A268		
9	2114AL-2	1024	4	S	MXX	120n	120n*	1.0 □	0.0	5.0	0.8	2.0s	10uΔ		0	7	A268		
10	2114AL-3	1024	4	S	MXX	150n	150n*	1.0 □	0.0	5.0	0.8	2.0s	10uΔ		0	7	A268		
11	2114A-4	1024	4	S	MXX	200n	200n*	1.0 □	0.0	5.0	0.8	2.0s	10uΔ		0	7	A268		
12	2114AL-4	1024	4	S	MXX	200n	200n*	1.0 □	0.0	5.0	0.8	2.0s	10uΔ		0	7	A268		
13	AM9130EDC	1024	4	S	MXX	200n	320n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
14	AM9130EPC	1024	4	S	MXX	200n	320n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
15	AM9131EDC	1024	4	S	MXX	200n	320n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
16	2114A-5	1024	4	S	MXX	250n	250n*	1.0 □	0.0	5.0	0.8	2.0s	10uΔ		0	7	A268		
17	AM91L30DDC	1024	4	S	MXX	250n	395n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
18	AM91L30DDC	1024	4	S	MXX	250n	395n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
19	AM91L31DDC	1024	4	S	MXX	250n	395n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
20	AM9130DDC	1024	4	S	MXX	250n	395n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
21	AM9130DDC	1024	4	S	MXX	250n	395n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
22	AM9131DDC	1024	4	S	MXX	250n	395n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
23	AM91L30CDC	1024	4	S	MXX	300n	470n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
24	AM91L30CDM	1024	4	S	MXX	300n	470n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433	ML162d	
25	AM91L30CPC	1024	4	S	MXX	300n	470n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
26	AM91L31CDC	1024	4	S	MXX	300n	470n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
27	AM91L31CDM	1024	4	S	MXX	300n	470n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433a	ML162d	
28	AM9130CDC	1024	4	S	MXX	300n	470n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
29	AM9130CDM	1024	4	S	MXX	300n	470n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433	ML162d	
30	AM9130CPC	1024	4	S	MXX	300n	470n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
31	AM9131CDC	1024	4	S	MXX	300n	470n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
32	AM9131CDM	1024	4	S	MXX	300n	470n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433a	ML162d	
33	AM91L30BDC	1024	4	S	MXX	400n	620n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
34	AM91L30BDM	1024	4	S	MXX	400n	620n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433	ML162d	
35	AM91L30BPC	1024	4	S	MXX	400n	620n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
36	AM91L31BDC	1024	4	S	MXX	400n	620n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
37	AM91L31BDM	1024	4	S	MXX	400n	620n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433a	ML162d	
38	AM9130BDC	1024	4	S	MXX	400n	620n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
39	AM9130BDM	1024	4	S	MXX	400n	620n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433	ML162d	
40	AM9130BPC	1024	4	S	MXX	400n	620n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
41	AM9131BDC	1024	4	S	MXX	400n	620n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
42	AM9131BDM	1024	4	S	MXX	400n	620n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433a	ML162d	
43	AM91L30ADC	1024	4	S	MXX	500n	770n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
44	AM91L30ADM	1024	4	S	MXX	500n	770n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433	ML162d	
45	AM91L30APC	1024	4	S	MXX	500n	770n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
46	AM91L31ADC	1024	4	S	MXX	500n	770n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
47	AM91L31ADM	1024	4	S	MXX	500n	770n*	368m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433a	ML162d	
48	AM9130ADC	1024	4	S	MXX	500n	770n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML162d	
49	AM9130ADM	1024	4	S	MXX	500n	770n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433	ML162d	
50	AM9130APC	1024	4	S	MXX	500n	770n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433	ML197d	
51	AM9131ADC	1024	4	S	MXX	500n	770n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	0	7	A433a	ML162d	
52	AM9131ADM	1024	4	S	MXX	500n	770n*	578m	0.0	5.0	0.8	2.0	3.2m	.40	5	C	A433a	ML162d	
53	9010-1231	1024	8		MNX	250n		3.6	0.0	5.0					0	6			
54	9010-1210	1024	8		MNX	500n		3.7	0.0	5.0					0	6			
55	9010-1250	1024	8		MNX	500n		1.8	0.0	24					0	6			
56	MK4808-3	1024	8	D	MNG	200n	360n	150m	0.0	5.0	0.8	2.2	4.0m	.40	500 Δ	0	7		
57	MK4809-3	1024	8	D	MNG	200n	360n	150m	0.0	5.0	0.8	2.2	4.0m	.40	500 Δ	0	7		
58	MK4808-4	1024	8	D	MNG	250n	450n	150m	0.0	5.0	0.8	2.2	4.0m	.40	500 Δ	0	7		
59	MK4809-4	1024	8	D	MNG	250n	450n	150m	0.0	5.0	0.8	2.2	4.0m	.40	500 Δ	0	7		
60	MK4808-5	1024	8	D	MNG	300n	540n	150m	0.0	5.0	0.8	2.2	4.0m	.40	500 Δ	0	7		
61	MK4809-5	1024	8	D	MNG	300n	540n	150m	0.0	5.0	0.8	2.2	4.0m	.40	500 Δ	0	7		
62	MK4801AJ-55	1024	8	S		55n	65n*	1.0 □	0.0	5.0	0.8	2.2	50uΔ		0	7		ML390	
63	MK4801AJ-70	1024	8	S		70n	80n*	1.0 □	0.0	5.0	0.8	2.2	50uΔ		0	7		ML390	
64	MK4801AN-70	1024	8	S		70n	80n*	1.0 □	0.0	5.0	0.8	2.2	50uΔ		0	7			
65	MK4801AN-90	1024	8	S		90n	100n*	1.0 □	0.0	5.0	0.8	2.2	50uΔ		0	7			
66	SCP1833	1024	8	S	MCG	350n†		120m†	0.0	10	.01%	9.99			5	C	A501	ML□	
67	SCP1833L	1024	8	S	MCG	850n†		30m†	0.0	5.0	.01%	4.99			5	C	A501	ML□	
68	ID8185	1024	8	S	MNG			1.5 □	0.0	5.0	0.8	2.2	10uΔ	4.5	0	8	A511		
69	MK4118J-1	1024	8	S	MNG	120n	120n*	400m†	0.0	5.0	0.8	2.2	10uΔ		0	7	A415	ML390	
70	MK4118N-1	1024	8	S	MNG	120n	120n	400m	0.0	5.0	0.8	2.2s	4.0m	.40	0	7	A415	ML118i	
71	MK4118J-2	1024	8	S	MNG	150n	150n*	400m†	0.0	5.0	0.8	2.2	10uΔ		0	7	A415	ML390	
72	MK4118N-2	1024	8	S	MNG	150n	150n	400m	0.0	5.0	0.8	2.2s	4.0m	.40	0	7	A415	ML118i	
73	MK4118J-3	1024	8	S	MNG	200n	200n*	400m†	0.0	5.0	0.8	2.2	10uΔ		0	7	A415	ML390	
74	MK4118N-3	1024	8	S	MNG	200n	200n	400m	0.0	5.0	0.8	2.2s	4.0m	.40	0	7	A415	ML118i	
75	MK4118J-4	1024	8	S	MNG	250n	250n*	400m†	0.0	5.0	0.8	2.2	10uΔ		0	7	A415	ML390	
76	MK4118N-4	1024	8	S	MNG	250n	250n	400m	0.0	5.0	0.8	2.2s	4.0m	.40	0	7	A415	ML118i	
77	8108-3MD	1024	8	S	MNG	300n	450n	1.6	0.0	5.0	0.8	2.0	10uΔ	.40	0	7	A330	ML229	
78	8118-3MD	1024	8	S	MNG	300n	450n	1.6	0.0	5.0	0.8	2.0	10uΔ	.40	0	7	A330	ML229	
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2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE (°C)	DRAWINGS						
		1	2							M	O	D	E	STRUCTURE CODE	NEG. (V)			POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	OUT (V)	LOGIC/BLOCK	OUTLINE
1▼	MK4802J-3	2048	8	S			200n	200n*	1.0	0.0	5.0	0.8	2.2	50uΔ	0.4	0	7		ML390					
2▲	TC5516P	2048	8	S			250n	250n*	385m	0.0	5.0	0.8	2.2	2.0m	0.4	0	7	A522	ML118e					
3▼	TMM2016P-1	2048	8	S			100n	100n*	660m	0.0	5.0	0.8	2.0	2.1m	0.4	0	7	A452	ML118e					
4#	HM6116LP-2	2048	8	S	MNG		120n	120n	1.0	0.0	5.0	.80	2.2s	2.0uΔ		0	7	A489	ML2					
5#	HM6116P-2	2048	8	S	MNG		120n	120n	1.0	0.0	5.0	.80	2.2s	1.0uΔ		0	7	A489	ML2					
6#	HM6116LP-3	2048	8	S	MNG		150n	150n	1.0	0.0	5.0	.80	2.2s	2.0uΔ		0	7	A489	ML2					
7#	HM6116P-3	2048	8	S	MNG		150n	150n	1.0	0.0	5.0	.80	2.2s	1.0uΔ		0	7	A489	ML2					
8#	M58725P-15	2048	8	S	MNG		150n	150n	1.0	0.0	5.0	0.8	2.0s			0	6	A471	ML2					
9▼	TMM2016P	2048	8	S	MNG		150n	150n*	550m	0.0	5.0	0.8	2.0	2.1m	0.4	0	7	A452	ML118e					
10#	HM6116LP-4	2048	8	S	MNG		200n	200n	1.0	0.0	5.0	.80	2.2s	2.0uΔ		0	7	A489	ML2					
11#	HM6116P-4	2048	8	S	MNG		200n	200n	1.0	0.0	5.0	.80	2.2s	1.0uΔ		0	7	A489	ML2					
12#	M58725P	2048	8	S	MNG		200n	200n*	1.0	0.0	5.0	0.8	2.0s			0	6	A471	ML2					
13#	M58725S	2048	8	S	MNG		200n	200n*	1.0	0.0	5.0	0.8	2.0s			0	6	A471	ML2					
14#	MSM2128	2048	8	S	MNG		200n	200n*	500m	0.0	5.0	.80	2.0			0	7	A452	ML2					
15▼#	MSM2128-1	2048	8	S	MNG		200n	200n*	660m	0.0	5.0	.80	2.0	1.0uΔ	5.0	0	7	A489	ML59					
16	TMS4016NL	2048	8	S	MNG		450n	450n	475m	0.0	5.0	.80	2.0s			0	7	A452	ML30k					
17	MEM-3	4000	8	S				500n	425m	0.0	5.0					0	7							
18▼	MK2147N-55	4096	1				55n	55n	900m	0.0	5.0	0.8	2.0			0	7							
19▼	MK2147N-70	4096	1				70n	70n	800m	0.0	5.0	0.8	2.0			0	7							
20▼	MK2147J-85	4096	1				85n	85n	800m	0.0	5.0	0.8	2.0			0	7							
21▼	MK2147N-85	4096	1				85n	85n	800m	0.0	5.0	0.8	2.0			0	7							
22	TMS2147-7JDL	4096	1		MNG		70n*	770m	0.0	5.0	0.8	2.0				0	7							
23	TMS2147-5JDL	4096	1		MNG		55n*	990m	0.0	5.0	0.8	2.0				0	7							
24	TMS2147-7JDL	4096	1		MNG		70n*	880m	0.0	5.0	0.8	2.0				0	7							
25	TMS2147-7JL	4096	1		MNG		70n*	880m	0.0	5.0	0.8	2.0				0	7							
26	TMS2147-9JDL	4096	1		MNG		90n*	990m	0.0	5.0	0.8	2.0				0	7							
27	TMS2147-9JL	4096	1		MNG		90n*	990m	0.0	5.0	0.8	2.0				0	7							
28	TMS2147-9NL	4096	1		MNG		90n*	990m	0.0	5.0	0.8	2.0				0	7							
29	TMS4164-10JDL	4096	1		MNG		200n*	250m	0.0	5.0	0.8	2.4				0	7							
30	TMS4164-12JDL	4096	1		MNG		250n*	200m	0.0	5.0	0.8	2.4				0	7							
31	uPD414D-1	4096	1	D			375n*	200m	5.0	12	.80	2.4s				0	7							
32▼	MM5280J-5	4096	1	D			270n	470n*	1.3	5.0	12	.60	2.4	10uΔ	5.25	0	7		ML2					
33▼	MM5280N-5	4096	1	D			270n	470n*	1.3	5.0	12	.60	2.4	10uΔ	5.25	0	7		ML2					
34	93481ADC	4096	1	D	BTX		100n	240n*	500m†	0.0	5.0	.80	2.1s	16m	.50	500 Δ	0	7	A317	ML1k				
35	93481AFC	4096	1	D	BTX		100n	240n*	500m†	0.0	5.0	.80	2.1s	16m	.50	500 Δ	0	7	A317	FL1				
36	93481APC	4096	1	D	BTX		100n	240n*	500m†	0.0	5.0	.80	2.1s	16m	.50	500 Δ	0	7	A317	ML170				
37	93481DC	4096	1	D	BTX		120n	280n*	500m†	0.0	5.0	.80	2.1s	16m	.50	500 Δ	0	7	A317	ML1k				
38	93481FC	4096	1	D	BTX		120n	280n*	500m†	0.0	5.0	.80	2.1s	16m	.50	500 Δ	0	7	A317	FL14				
39	93481PC	4096	1	D	BTX		120n	280n*	500m†	0.0	5.0	.80	2.1s	16m	.50	500 Δ	0	7	A317	ML170				
40	KM8680	4096	1	D	MCG		100n	200n*	350m	5	12	.80	2.4s			0	6	A494	ML317					
41	MCM6604L2	4096	1	D	MNG			630m	5.0	12	0.8	2.4s				0	6	A494	ML389					
42	MCM6604L4	4096	1	D	MNG			630m	5.0	12	0.8	2.4s				0	6	A494	ML389					
43	MCM6604L	4096	1	D	MNG			630m	5.0	12	0.8	2.4s				0	6	A494	ML389					
44	MCM6604P2	4096	1	D	MNG			630m	5.0	12	0.8	2.4s				0	6	A494	ML389					
45	MCM6604P4	4096	1	D	MNG			630m	5.0	12	0.8	2.4s				0	6	A494	ML1317					
46	MCM6604P	4096	1	D	MNG			630m	5.0	12	0.8	2.4s				0	6	A494	ML317					
47	IM7027-1CJE	4096	1	D	MNG		120n	250n*	470m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A324	ML127r				
48	MCM4027AC1	4096	1	D	MNG		120n	320n*	470m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML372				
49	MK4027J-1	4096	1	D	MNG		120n	320n*	462m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML350				
50	MK4027N-1	4096	1	D	MNG		120n	320n*	462m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML349				
51	MK4027P-1	4096	1	D	MNG		120n	320n*	462m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML225				
52	4027-2F	4096	1	D	MNG		150n	320n*	462m	5.0	12	.80	2.4s	3.2m	.40	500 Δ	0	7	A264a	ML127r				
53	4027-2I	4096	1	D	MNG		150n	320n*	462m	5.0	12	.80	2.4s	3.2m	.40	500 Δ	0	7	A264a	ML107a				
54	4027-2N	4096	1	D	MNG		150n	320n*	462m	5.0	12	.80	2.4s	3.2m	.40	500 Δ	0	7	A264a	ML132				
55	D2104A-1	4096	1	D	MNG		150n	320n*	420m	5.0	12	.80	2.4s	3.2m	.40	500 Δ	0	7	A191a	ML359				
56	D2107C-1	4096	1	D	MNG		150n	380n*	420m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A189a	ML359c				
57#	HM4704L-2	4096	1	D	MNG		150n	330n*	462m	5.0	12	.80	2.4s	3.2m	.40	500 Δ	0	7	A391	ML89h				
58	IM7027-2CJE	4096	1	D	MNG		150n	330n*	470m	5.0	12	.80	2.2s	10uΔ		0	7	A324	ML396					
59#	ITT4027-2D	4096	1	D	MNG		150n	330n*	1.0	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	PN16j	ML127f				
60	ITT4027-2N	4096	1	D	MNG		150n	330n*	1.0	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	PN16j	ML170				
61	KMS4027	4096	1	D	MNG		150n	320n*	460m	5	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML301				
62#	M4027P-2B1	4096	1	D	MNG		150n	320n*	470m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML302				
63#	M4027P-2D1	4096	1	D	MNG		150n	320n*	470m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML300				
64#	M4027P-2F1	4096	1	D	MNG		150n	320n*	470m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML372				
65	MCM4027AC2	4096	1	D	MNG		150n	320n*	470m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML157a				
66	MCM4027C2	4096	1	D	MNG		150n	330n*	470m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML157a				
67	MCM4027L2	4096	1	D	MNG		150n	330n*	470m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML98b				
68	MCM6605AL1	4096	1	D	MNG		150n	390n*	437m	5.0	12	.80	3.0s	2.0m	.45	500 Δ	0	7	A148	ML8x				
69	MCM6605AP1	4096	1	D	MNG		150n	390n*	437m	5.0	12	.80	3.0s	2.0m	.45	500 Δ	0	7	A148	ML212				
70	MK4027J-2	4096	1	D	MNG		150n	320n*	462m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML350				
71	MK4027N-2	4096	1	D	MNG		150n	320n*	462m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML349				
72	MK4027P-2	4096	1	D	MNG		150n	320n*	462m	5.0	12	.80	2.2s	3.2m	.40	500 Δ	0	7	A264	ML225				
73	P2104A-1	4096	1	D	MNG		150n	320n	420m	5.0	12	.80	2.4s	3.2m	.40	500 Δ	0	7	A191a	ML361				
74	P2107C-1	4096	1	D	MNG		150n	380n*	420m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A189a	ML361b				
75	4027-3F	4096	1	D	MNG		200n	375n*	462m	5.0	12	.80	2.4s	3.2m	.40	500 Δ	0	7	A264a	ML127r				
76	4027-3I	4096	1	D	MNG		200n	375n*	462m	5.0	12	.80	2.4s	3.2m	.40	500 Δ	0	7	A264a</					

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	6	TYPE No.	ORGANIZATION			3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS						
			1	2	M							D	E	STRUCTURE CODE	NEG. (V)	POS. (V)	MAX '0' (V)			MIN '1' (V)	(A)	@ OUT (V)	-	+	LOGIC/BLOCK	OUTLINE
1		4027-4N	4096	1	D	MNG	250n	375n*	482m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A264a	ML132						
2		AM90L60DDC	4096	1	D	MNG	250n	430n*	396m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A483	ML154						
3		AM90L60DPC	4096	1	D	MNG	250n	430n*	396m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A483	ML197c						
4		AM9050DDC	4096	1	D	MNG	250n	430n*	750m	5.0	12	.80	2.4	5.0m	.40	500 Δ	0	7	A483a	ML194f						
5		AM9050DPC	4096	1	D	MNG	250n	430n*	750m	5.0	12	.80	2.4	5.0m	.40	500 Δ	0	7	A483a	ML31						
6		AM9060DDC	4096	1	D	MNG	250n	430n*	750m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A483	ML154						
7		AM9060DPC	4096	1	D	MNG	250n	430n*	750m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A483	ML197c						
8		D2104A-3	4096	1	D	MNG	250n	375n*	360m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A191a	ML359						
9		D2107C	4096	1	D	MNG	250n	430n*	360m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A189a	ML359c						
10#		HM4704L-4	4096	1	D	MNG	250n	480n*	462m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	A391	ML89h						
11		IM7027-4CJE	4096	1	D	MNG	250n	480 *Δ	470m	5.0	12	.80	2.2	10uΔ	.40	500 Δ	0	7	A324	ML396						
12#		ITT4027-4D	4096	1	D	MNG	250n	480nΔ*	1.0 □	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	PN16j	ML127f						
13		ITT4027-4N	4096	1	D	MNG	250n	470n	470m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	PN16j	ML170						
14#		M4027P-4B1	4096	1	D	MNG	250n	375n*	470m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	A264	ML301						
15#		M4027P-4D1	4096	1	D	MNG	250n	375n*	470m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	A264	ML302						
16#		M4027P-4F1	4096	1	D	MNG	250n	375n*	470m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	A264	ML300						
17		MCM4027AC4	4096	1	D	MNG	250n	375n*	470m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	A264	ML372						
18		MCM4027C4	4096	1	D	MNG	250n	480nΔ	470m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	A264	ML157a						
19		MCM4027L4	4096	1	D	MNG	250n	480nΔ	470m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	A264	ML98b						
20		MCM4027P4	4096	1	D	MNG	250n	375n*	470m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A264	ML98b						
21		MCM4096C6	4096	1	D	MNG	250n	375n*	500m†	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A264	ML372						
22		MCM4096L6	4096	1	D	MNG	250n	375n*	500m†	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A264	ML371						
23		MCM6604AC2	4096	1	D	MNG	250n	375n*	500m†	5.0	12	.80	2.4	2.0m	.40	500 Δ	0	7	A264	ML372						
24		MCM6604AL2	4096	1	D	MNG	250n	375n*	500m†	5.0	12	.80	2.4	2.0m	.40	500 Δ	0	7	A264	ML371						
25		MK4027N-4	4096	1	D	MNG	250n	375n*	462m	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	A264	ML236						
26		MKB4027F-84	4096	1	D	MNG	250n	375n	467m	0.0	12	.80	2.7	10uΔ	.40	500 Δ	5	8	A264	FL73						
27		MKB4027J-84	4096	1	D	MNG	250n	375n	467m	0.0	12	.80	2.7	10uΔ	.40	500 Δ	5	8	A264	ML350						
28		P2104A-3	4096	1	D	MNG	250n	375n	360m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A191a	ML361						
29		P2107C	4096	1	D	MNG	250n	430n*	360m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A189a	ML361b						
30#		M5L2107BS-4	4096	1	D	MNG	270n	470n	420m	5.0	12	.60	2.4	2.0m	.45	500 Δ	0	7	A189	ML339						
31#		MM4280J	4096	1	D	MNG	270n	470n	840m∅	5.0	12	.80	2.2	2.0m	.45	1.0kΔ	5	8	A293	ML115a						
32		AM90L60CDC	4096	1	D	MNG	300n	470n*	396m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A483	ML154						
33		AM90L60DPC	4096	1	D	MNG	300n	470n*	396m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A483	ML197c						
34		AM9050CDC	4096	1	D	MNG	300n	470n*	750m	5.0	12	.80	2.4	5.0m	.40	500 Δ	0	7	A483a	ML194f						
35		AM9050DPC	4096	1	D	MNG	300n	470n*	750m	5.0	12	.80	2.4	5.0m	.40	500 Δ	0	7	A483a	ML31						
36		AM9060CDC	4096	1	D	MNG	300n	470n*	750m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A483	ML154						
37		AM9060DPC	4096	1	D	MNG	300n	470n*	750m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A483	ML197c						
38		D2104A-4	4096	1	D	MNG	300n	425n*	360m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A191a	ML359						
39		D2107C-4	4096	1	D	MNG	300n	470n*	360m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A189a	ML359c						
40		MCM4096C16	4096	1	D	MNG	300n	425n*	500m†	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A264	ML372						
41		MCM4096L16	4096	1	D	MNG	300n	425n*	500m†	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A264	ML371						
42		MCM6604AC4	4096	1	D	MNG	300n	425n*	500m†	5.0	12	.80	2.4	2.0m	.40	500 Δ	0	7	A264	ML372						
43		MCM6604AL4	4096	1	D	MNG	300n	425n*	500m†	5.0	12	.80	2.4	2.0m	.40	500 Δ	0	7	A264	ML371						
44		MCM6605AL	4096	1	D	MNG	300n	590n*	437m	5.0	12	.80	3.0	2.0m	.45	500 Δ	0	7	A148	ML8x						
45		MCM6605AP	4096	1	D	MNG	300n	590n*	437m	5.0	12	.80	3.0	2.0m	.45	500 Δ	0	7	A148	ML212						
46		P2104A-4	4096	1	D	MNG	300n	425n*	360m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A191a	ML361						
47		P2107C-4	4096	1	D	MNG	300n	470n*	360m	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A189a	ML361b						
48		SMC4030JR	4096	1	D	MNG	300n	470n*	985m	3.0	12	.40%	2.4	3.2m	.40	1.0kΔ	5	8	A202	ML8n						
49		SMC4050JR	4096	1	D	MNG	300n	470n*	985m	5.0	12	.40%	2.4	5.0m	.40	1.0kΔ	5	8	A204	ML210						
50		SMC4060JR	4096	1	D	MNG	300n	470n*	980m	5.0	12	.40%	2.4	3.2m	.40	1.0kΔ	5	8	A202	ML8n						
51		D2104A	4096	1	D	MNG	350n	500n*	420m	5.0	12	.80	2.4	2.0m	.40	500 Δ	0	7	A191a	ML359c						
52#		HM4704L-6	4096	1	D	MNG	350n	500n*	528m	5.0	12	.80	2.7	3.2m	.40	1.0kΔ	0	7	A391	ML89h						
53#		ITT4027-6D	4096	1	D	MNG	350n	700nΔ*	1.0 □	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	PN16j	ML127f						
54		ITT4027-6N	4096	1	D	MNG	350n	700nΔ*	1.0 □	5.0	12	.80	2.2	3.2m	.40	500 Δ	0	7	PN16j	ML170						
55		MCM4096C11	4096	1	D	MNG	350n	500n*	500m†	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A264	ML372						
56		MCM4096L11	4096	1	D	MNG	350n	500n*	500m†	5.0	12	.80	2.4	3.2m	.40	500 Δ	0	7	A264	ML371						
57		MCM6604AC	4096	1	D	MNG	350n	500n*	500m†	5.0	12	.80	2.4	2.0m	.40	500 Δ	0	7	A264	ML372						
58		MCM6604AL	4096	1	D	MNG	350n	500n*	500m†	5.0	12	.80	2.4	2.0m	.40	500 Δ	0	7	A264	ML371						
59		P2104A	4096	1	D	MNG	350n	500n*	420m	5.0	12	.80	2.4	2.0m	.40	500 Δ	0	7	A191a	ML361						
60#		uPD411D-3	4096	1	D	MNX	150n	380n*	1.0 □	5.0	12	.60	2.4	3.2m	.40	500 Δ	0	7	A443a	ML77e						
61#		uPD411AC-2	4096	1	D	MNX	200n	400n*	1.0 □	5.0	12	.60	2.4	3.2m	.40	500 Δ	0	7	A444	ML363						
62#		uPD411D-2	4096	1	D	MNX	200n	400n*	1.0 □	5.0	12	.60	2.4	3.2m	.40	500 Δ	0	7	A443a	ML77e						
63#		uPD411AC-1	4096	1	D	MNX	250n	430n*	1.0 □	5.0	12	.40	2.4	3.2m	.40	500 Δ	0	7	A444	ML363						
64#		uPD411D-1	4096	1	D	MNX	250n	430n*	1.0 □	5.0	12	.60	2.4	3.2m	.40	500 Δ	0	7	A443a	ML77e						
65		JANM38510/23501BWC	4096	1	D	MNX	300n	470n*	1.5	5.5	12	.60	2.2	3.2m	.40	1.0kΔ	5	8	A202	ML254						
66		JANM38510/23501CWC	4096	1	D	MNX	300n	470n*	1.5	5.5	12	.60	2.2	3.2m	.40	1.0kΔ	5	8	A202	ML254						
67		JANM38510/23502BVC	4096	1	D	MNX	300n	470n*	1.5	5.5	12	.60	2.2	3.2m	.40	1.0kΔ	5	8	A204	ML255						
68		JANM38510/23502CVC	4096	1	D	MNX	300n	470n*	1.5	5.5	12	.60	2.2	5.0m	.40	1.0kΔ	5	8	A204	ML255						
69#		MSM3741A	4096	1	D	MNX	300n	550n*	788m	5.0	12	.80	3.0	2.0m	.40	333 Δ	1	5	A347	ML8a						
70#		uPD411AC	4096	1	D	MNX	300n	470n*	660m	5.0	12	.60	2.4	3.2m	.40	500 Δ</										

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD

(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS			
		1	2							MODE	STRUCTURE CODE	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)			(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1	93470DC	4096	1	S	BTX	55n†	30n†	950m	0.0	5.0	80	2.1Δ	8.0m	.45	0	7	A318	ML194d			
2	93470DM	4096	1	S	BTX	55n†	30n†	950m	0.0	5.0	80	2.1Δ	8.0m	.45	0	7	A316	ML194d			
3	93470PC	4096	1	S	BTX	55n†	30n†	950m	0.0	5.0	80	2.1Δ	8.0m	.45	0	7	A316	ML194d			
4	93471DC	4096	1	S	BTX	55n†	30n†	950m	0.0	5.0	80	2.1Δ	8.0m	.45	0	7	A318a	ML194d			
5	93471DM	4096	1	S	BTX	55n†	30n†	950m	0.0	5.0	80	2.1Δ	8.0m	.45	0	7	A316a	ML194d			
6	93471PC	4096	1	S	BTX	55n†	30n†	950m	0.0	5.0	80	2.1Δ	8.0m	.45	0	7	A316a	ML194d			
7	2147J-3	4096	1	S	MCG	55n	55n*	2.0m†	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A507	ML398			
8	IM65041DN	4096	1	S	MCG	170n†	240n†	1.0u†	0.0	5.0	80	3.0Δ	1.0uΔ	.40	4	8	A508	ML397			
9	IM65041JN	4096	1	S	MCG	170n†	240n†	1.0u†	0.0	5.0	80	3.0Δ	1.0uΔ	.40	4	8	A508	ML398			
10	IM65041PN	4096	1	S	MCG	170n†	240n†	1.0u†	0.0	5.0	80	3.0Δ	1.0uΔ	.40	4	8	A508	ML402			
11	IM65041MDN	4096	1	S	MCG	170n†	240n†	1.0u†	0.0	5.0	80	3.0Δ	1.0uΔ	.40	4	8	A508	ML397			
12	IM65041MFN	4096	1	S	MCG	170n†	240n†	1.0u†	0.0	5.0	80	3.0Δ	1.0uΔ	.40	4	8	A508	FL77			
13	IM65041JN	4096	1	S	MCG	170n†	240n†	1.0u†	0.0	5.0	80	3.0Δ	1.0uΔ	.40	4	8	A508	ML398			
14	NMC6504J-2	4096	1	S	MCG	300n	420n	250u†	0.0	5.0	80	3.0Δ	3.2m	.40	5	8	A477	ML194e			
15	NMC6504J-9	4096	1	S	MCG	300n	420n	250u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A477	ML196			
16	NMC6504N-9	4096	1	S	MCG	300n	420n	250u†	0.0	5.0	80	3.0Δ	3.2m	.40	4	8	A477	ML196			
17	NMC6504J-5	4096	1	S	MCG	350n	500n	250u†	0.0	5.0	80	3.0Δ	3.2m	.40	0	7	A477	ML194e			
18	NMC6504N-5	4096	1	S	MCG	350n	500n	250u†	0.0	5.0	80	3.0Δ	3.2m	.40	0	7	A477	ML196			
19	MCM148504	4096	1	S	MCG	450n	1.0m†	1.0m†	0.0	5.0	80	3.0Δ	50uΔ	.40	0	7	A416	ML3			
20	TC5504P	4096	1	S	MCG	450n	550n*	1.10m	0.0	5.0	0.8	2.5	2.0m	0.4	3	8	A520a	ML3			
21	TC5504P-1	4096	1	S	MCG	450n	700n*	1.10m	0.0	5.0	0.8	2.5	2.0m	0.4	3	8	A520a	ML3			
22	TC5504P-2	4096	1	S	MCG	800n	1.0u*	1.10m	0.0	5.0	0.8	2.5	2.0m	0.4	3	8	A520a	ML3			
23	MK2147J-55	4096	1	S	MNG	55n	55n	900m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	PN18w	ML351			
24	MK2147J-70	4096	1	S	MNG	70n	70n	800m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	PN18w	ML351			
25	MK2147J-90	4096	1	S	MNG	90n	90n	800m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	PN18w	ML351			
26	AM91L41DDC	4096	1	S	MNG	90n	395nΔ*	368m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A507	ML304			
27	HM4847-3	4096	1	S	MNG	55n	55n	850m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A507	ML304			
28	HM6147LP	4096	1	S	MNG	55n	55n	1.0	0.0	5.0	80	2.2Δ	2.0uΔ	.40	0	7	A507	ML3			
29	HM6147P	4096	1	S	MNG	55n	55n	1.0	0.0	5.0	80	2.2Δ	2.0uΔ	.40	0	7	A507	ML3			
30	MCM2147C55	4096	1	S	MNG	55n	55n*	850m	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A418	ML265			
31	MCM2147P55	4096	1	S	MNG	55n	55n*	850m	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A418	ML265			
32	MM2147J-3	4096	1	S	MNG	55n	55n	900m	0.0	5.0	80	2.0	8.0m	.40	0	7	A507	ML194e			
33	MM2147N-3	4096	1	S	MNG	55n	55n	900m	0.0	5.0	80	2.0	8.0m	.40	0	7	A507	ML196			
34	SYC2147-3	4096	1	S	MNG	55n	55n	900m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A497	ML115e			
35	TMM315D-1	4096	1	S	MNG	55n	55n*	990m	0.0	5.0	0.8	2.0	8.0m	0.4	0	7	A507	ML344			
36	TMS2147-5NL	4096	1	S	MNG	55n	55n	1.2	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A452	ML305			
37	HM4847	4096	1	S	MNG	70n	70n	800m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A507	ML304			
38	HM6147LP-3	4096	1	S	MNG	70n	70n	1.0	0.0	5.0	80	2.2Δ	2.0uΔ	.40	0	7	A507	ML3			
39	HM6147P-3	4096	1	S	MNG	70n	70n	1.0	0.0	5.0	80	2.2Δ	2.0uΔ	.40	0	7	A507	ML3			
40	MCM2147C70	4096	1	S	MNG	70n	70n*	750m	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A418	ML265			
41	MCM2147P70	4096	1	S	MNG	70n	70n*	750m	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A418	ML265			
42	MM2147J	4096	1	S	MNG	70n	70n	800m	0.0	5.0	80	2.0	8.0m	.40	0	7	A507	ML194e			
43	MM2147J-L	4096	1	S	MNG	70n	70n	720m	0.0	5.0	80	2.0	8.0m	.40	0	7	A507	ML194e			
44	MM2147N	4096	1	S	MNG	70n	70n	800m	0.0	5.0	80	2.0	8.0m	.40	0	7	A507	ML196			
45	MM2147N-L	4096	1	S	MNG	70n	70n	720m	0.0	5.0	80	2.0	8.0m	.40	0	7	A507	ML196			
46	SYC2147	4096	1	S	MNG	70n	70n	800m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A497	ML115e			
47	SYC2147L	4096	1	S	MNG	70n	70n	700m	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A497	ML115e			
48	TMM315D	4096	1	S	MNG	70n	70n*	880m	0.0	5.0	0.8	2.0	8.0m	0.4	0	7	A507	ML344			
49	TMS2147-7NL	4096	1	S	MNG	70n	70n	1.2	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A452	ML305			
50	TMS2147-7NL	4096	1	S	MNG	70n	70n	1.2	0.0	5.0	80	2.0Δ	50uΔ	.40	0	7	A452	ML305			
51	MCM2147C85	4096	1	S	MNG	85n	85n*	650m	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A418	ML271			
52	MCM2147P85	4096	1	S	MNG	85n	85n*	650m	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A418	ML265			
53	MCM2147C100	4096	1	S	MNG	100n	100n*	550m	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A418	ML271			
54	MCM2147P100	4096	1	S	MNG	100n	100n*	550m	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A418	ML265			
55	2141-UCB	4096	1	S	MNG	120n	120n	1.2	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A507	ML382			
56	2141-UCF	4096	1	S	MNG	120n	120n	1.2	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A507	ML382			
57	NMC2141J	4096	1	S	MNG	120n	120n*	1.2	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A507	ML3			
58	NMC2141N	4096	1	S	MNG	120n	120n*	1.2	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A507	ML3			
59	NMC5257AJ	4096	1	S	MNG	120n	120n*	1.2	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A507	ML3			
60	NMC5257AN	4096	1	S	MNG	120n	120n*	1.2	0.0	5.0	80	2.0Δ	8.0m	.40	0	7	A507	ML3			
61	TMS4244JL	4096	1	S	MNG	120n	120n*	300m†	0.0	5.0	80	2.0	2.1m	.45	0	7	PN18i	ML3b			
62	TMS4244NL	4096	1	S	MNG	120n	120n*	300m†	0.0	5.0	80	2.0	2.1m	.45	0	7	PN18i	ML3k			
63	2613-15F	4096	1	S	MNG	150n	150n*	700m	0.0	5.0	80	2.0Δ	2.1m	.45	0	7	A418	ML165a			
64	2613-15I	4096	1	S	MNG	150n	150n*	700m	0.0	5.0	80	2.0Δ	2.1m	.45	0	7	A418	ML134j			
65	2613-15N	4096	1	S	MNG	150n	150n*	700m	0.0	5.0	80	2.0Δ	2.1m	.45	0	7	A418	ML291			
66	TMS40L44-15NL	4096	1	S	MNG	150n	150n	275m	0.0	5.0	80	2.0Δ	3.2m	.40	0	7	A327	ML3b			
67	TMS4044-15NL	4096	1	S	MNG	150n	150n*	440m	0.0	5.0	80	2.0Δ	3.2m	.40	0	7	A327	ML3k			
68	Z6104-2CS	4096	1	S	MNG	150n	240n*	0.0	5.0	-30*	2.0	2.0	2.0	.40	0	7	A526	ML327			
69	Z6104-2PS	4096	1	S	MNG	150n	240n*	0.0	5.0	-30*	2.0	2.0	2.0	.40	0	7	A526	ML327			
70	2613-20F	4096	1	S	MNG	200n	200n*	700m	0.0	5.0	80	2.0Δ	2.1m	.45	0	7	A418	ML165a			
71	2613-20I	4096	1	S	MNG	200n	200n*	700m	0.0	5.0	80	2.0Δ	2.1m	.45	0	7	A418	ML134j			
72	2613-20N	4096	1	S	MNG	200n	200n*	700m	0.0	5.0	80	2.0Δ	2.1m	.45	0	7	A418	ML291			
73	KMS4104	4096	1	S	MNG	200n	310n*Δ	120m	0.0	5.0	80	2.0	2.1m	.40	0	7	A327	ML338			
74	M5T4044P-20	4096	1	S	MNG	200n	200n	358m	0.0	5.0	80	2.0	2.1m	.40	0	7	A327	ML337			
75	M5T4044S-20	4096	1	S	MNG	200n	200n	358m	0.0	5.0	80	2.0	2.1m	.40	0	7	A327	ML337			
76	MCM66L41-20C	4096	1	S	MNG	200n	200n*	385m	0.0	5.0	80	2.0Δ	2.1m	.40	0	7	A327b	ML271			
77	MCM66L41-20JL	4096	1	S	MNG	200n	200n*	35													

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT @ OUT (A)	MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS				
		1	2						M	S	E	NEG. (V)				POS. (V)	MAX '0' (V)	MIN '1' (V)	LOGIC/BLOCK	OUTLINE
1	TMS40L44-25NL	4096	1	S	MNG	250n	250n*	275m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A327	ML3k		
2	TMS4044-25NL	4096	1	S	MNG	250n	250n*	440m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A327	ML3k		
3#	Z6104-4CS	4096	1	S	MNG	250n	380n*		0.0	5.0	.30*	2.0			0	7	A526	ML327		
4#	Z6104-4PS	4096	1	S	MNG	250n	380n*		0.0	5.0	-.30*	2.0			0	7	A526	ML327		
5#	Z6104L-4PS	4096	1	S	MNG	250n	380n*		0.0	5.0	-.30*	2.0			0	7	A526	ML327		
6#	M5T4044P-30	4096	1	S	MNG	300n	300n	358m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A327	ML338		
7#	M5T4044S-30	4096	1	S	MNG	300n	300n	358m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A327	ML337		
8	MCM66L41-30C	4096	1	S	MNG	300n	300n*	385m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML271		
9	MCM66L41-30JL	4096	1	S	MNG	300n	300n*	350m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML370		
10	MCM66L41-30NL	4096	1	S	MNG	300n	300n*	350m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML370		
11	MCM66L41-30P	4096	1	S	MNG	300n	300n*	385m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML265		
12	MCM6641-30C	4096	1	S	MNG	300n	300n*	550m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML271		
13	MCM6641-30JL	4096	1	S	MNG	300n	300n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML370		
14	MCM6641-30NL	4096	1	S	MNG	300n	300n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML370		
15	MCM6641-30P	4096	1	S	MNG	300n	300n*	550m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML265		
16	MK4104J-5	4096	1	S	MNG	300n	460n	150m	0.0	5.0	.80	2.2	5.0m	.40	0	7	A303	ML351		
17	MK4104J-35	4096	1	S	MNG	300n	460n	150m	0.0	5.0	.80	2.2	5.0m	.40	0	7	A303	ML351		
18	MK4104N-5	4096	1	S	MNG	300n	460n	150m	0.0	5.0	.80	2.2	5.0m	.40	0	7	A303	ML353		
19	MK4104N-35	4096	1	S	MNG	300n	460n	150m	0.0	5.0	.80	2.2	5.0m	.40	0	7	A303	ML353		
20	MKB4104E-85	4096	1	S	MNG	300n	510n*	1.0	0.0	5.0	.65	2.4	10uΔ		5	C	A303	FL74		
21	MKB4104J-85	4096	1	S	MNG	300n	510n*	1.0	0.0	5.0	.65	2.4	10uΔ		5	C	A303	ML351		
22	MKB4104P-85	4096	1	S	MNG	300n	510n*	1.0	0.0	5.0	.65	2.4	10uΔ		5	C	A303	ML353		
23	MM5257J-3	4096	1	S	MNG	300n	300n	450m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML194e		
24	MM5257J-3L	4096	1	S	MNG	300n	300n	400m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML194e		
25	MM5257N-3	4096	1	S	MNG	300n	300n	450m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML196		
26	MM5257N-3L	4096	1	S	MNG	300n	300n	400m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML196		
27	MK4104J-6	4096	1	S	MNG	350n	535n	150m	0.0	5.0	.80	2.2	5.0m	.40	0	7	A303	ML351		
28	MK4104N-6	4096	1	S	MNG	350n	535n	150m	0.0	5.0	.80	2.2	5.0m	.40	0	7	A303	ML353		
29	MKB4104E-86	4096	1	S	MNG	350n	610n*	1.0	0.0	5.0	.65	2.4	10uΔ		5	C	A303	FL74		
30	MKB4104J-86	4096	1	S	MNG	350n	610n*	1.0	0.0	5.0	.65	2.4	10uΔ		5	C	A303	MC351		
31	MKB4104P-86	4096	1	S	MNG	350n	610n*	1.0	0.0	5.0	.65	2.4	10uΔ		5	C	A303	ML353		
32#	2613-45F	4096	1	S	MNG	450n	450n*	700m	0.0	5.0	.80	2.0s	2.1m	.45	0	7	A418	ML165a		
33#	2613-45I	4096	1	S	MNG	450n	450n*	700m	0.0	5.0	.80	2.0s	2.1m	.45	0	7	A418	ML134j		
34#	2613-45N	4096	1	S	MNG	450n	450n*	700m	0.0	5.0	.80	2.0s	2.1m	.45	0	7	A418	ML291		
35#	HM4315P	4096	1	S	MNG	450n	640n	1.0	0.0	5.0	.80	2.4	1.0uΔ		0	7	A490	ML		
36#	M5T4044P-45	4096	1	S	MNG	450n	450n	358m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A327	ML338		
37#	M5T4044S-45	4096	1	S	MNG	450n	450n	358m	0.0	5.0	.80	2.0	2.1m	.40	0	7	A327	ML337		
38	MCM66L41-45C	4096	1	S	MNG	450n	450n*	385m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML271		
39	MCM66L41-45JL	4096	1	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML370		
40	MCM66L41-45NL	4096	1	S	MNG	450n	450n*	350m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML370		
41	MCM66L41-45P	4096	1	S	MNG	450n	450n*	385m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML265		
42	MCM6641-45C	4096	1	S	MNG	450n	450n*	550m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML271		
43	MCM6641-45JL	4096	1	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML370		
44	MCM6641-45NL	4096	1	S	MNG	450n	450n*	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML370		
45	MCM6641-45P	4096	1	S	MNG	450n	450n*	550m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A327b	ML265		
46	MM5257J	4096	1	S	MNG	450n	450n	450m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML194e		
47	MM5257J-L	4096	1	S	MNG	450n	450n	400m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML194e		
48	MM5257N	4096	1	S	MNG	450n	450n	450m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML196		
49	MM5257N-L	4096	1	S	MNG	450n	450n	400m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML196		
50	TMS40L44-45NL	4096	1	S	MNG	450n	450n*	275m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A327	ML3k		
51	TMS4044-45NL	4096	1	S	MNG	450n	450n*	440m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	A327	ML3k		
52	MM5257J-6	4096	1	S	MNG	650n	650n	450m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML194e		
53	MM5257J-6L	4096	1	S	MNG	650n	650n	400m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML194e		
54	MM5257N-6	4096	1	S	MNG	650n	650n	450m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML196		
55	MM5257N-6L	4096	1	S	MNG	650n	650n	400m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	A348	ML196		
56	uPD4104C-30	4096	1	S	MNX		460n*Δ	115m	0.0	5.0	.80	2.2			0	7				
57	uPD4104C-33	4096	1	S	MNX		280n*Δ	220m	0.0	5.0	.80	2.2			0	7				
58	uPD4104C-36	4096	1	S	MNX		180n*Δ	220m	0.0	5.0	.80	2.2			0	7				
59	uPD4104D-30	4096	1	S	MNX		460n*Δ	115m	0.0	5.0	.80	2.2			0	7				
60	uPD4104D-33	4096	1	S	MNX		280n*Δ	220m	0.0	5.0	.80	2.2			0	7				
61	uPD4104D-35	4096	1	S	MNX		230n*Δ	220m	0.0	5.0	.80	2.2			0	7				
62	uPD4104D-36	4096	1	S	MNX		180n*Δ	220m	0.0	5.0	.80	2.2			0	7				
63#	HM4847-2	4096	1	S	MNX		45n	50m†	0.0	5.0	.80	2.0s	50uΔ	5.25	0	7	A507	ML304		
64#	MBM2147H	4096	1	S	MNX		55n	525m	0.0	5.0	.80	2.1	12m	.45	0	7	A325	ML347		
65#	uPD2147D-3	4096	1	S	MNX		55n	800m	0.0	5.0	.80	2.0	10uΔ	.50	0	7	A507	ML226c		
66#	MBM2147E	4096	1	S	MNX		70n	525m	0.0	5.0	.80	2.1	12m	.45	0	7	A325	ML347		
67#	uPD2147D-2	4096	1	S	MNX		70n	800m	0.0	5.0	.80	2.0	10uΔ	.50	0	7	A507	ML226c		
68	4300ACD	4096	1	S	MNX		120n	250n*	5.0	12	.80	2.4s	2.0m	.50	0	7	A284a	ML229		
69#	uPD2147D	4096	1	S	MNX		120n	100n*	800m	0.0	5.0	.80	2.0	8.0m	.40	1	8	A507	ML226c	
70	4200BCD	4096	1	S	MNX		150n	300n*	5.0	12	.70	2.4s	2.0m	.50	0	7	A284a	ML229		
71	4200BCP	4096	1	S	MNX		150n	300n*	5.0	12	.70	2.4s	2.0m	.50	0	7	A284a	ML212a		
72#	L2141-3	4096	1	S	MNX		150n		0.0	5.0										
73#	uPD410D-1	4096	1	S	MNX		150n	330n*	1.0	12	.60	2.4s	3.2m	.40	0	7	A443	ML77e		
74	4200ACD	4096	1	S	MNX		200n	350n*	5.0	12	.70	2.4s	2.0m	.50	0	7	A284a	ML229		
75	4200ACP	4096	1	S	MNX		200n	350n*	1.6	12	.70	2.4s	2.0m	.50	0	7	A284a	ML212a		
76	4200USC	4096	1	S	MNX		200n	350n*	5.0	12	.70	2.4s	2.0m	.50	3	8	A284b	ML162b		
77	AM9044EDC	4096	1	S	MNX		200n	200n	350m	0.0	5.0	.80	2.0	4.0m	.40	0	7	A418	ML194f	
78	AM9044EPC	4096	1	S	MNX		200n	200n	350m	0.0	5.0	.80	2.0	4.0m	.40	0	7	A418	ML31	
79																				

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS			
		1	2							M	O	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)			(A)	OUT (V)	LOGIC/BLOCK	OUTLINE
1	AM92L44DPC	4096	1	S	MNX	300n	300n*	250m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML31			
2	AM9044CDC	4096	1	S	MNX	300n	300n*	350m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML194f			
3	AM9044CDM	4096	1	S	MNX	300n	300n*	450m	0.0	5.0	80	2.0	4.0m	40	5	C	A418	ML134I			
4	AM9044CPD	4096	1	S	MNX	300n	300n*	350m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML31			
5	AM9140CDC	4096	1	S	MNX	300n	470n*	578m	0.0	5.0	80	2.0	3.2m	40	0	7	A486	ML162e			
6	AM9140CDM	4096	1	S	MNX	300n	470n*	578m	0.0	5.0	80	2.0	3.2m	40	5	C	A486	ML162e			
7	AM9140CPD	4096	1	S	MNX	300n	470n*	578m	0.0	5.0	80	2.0	3.2m	40	0	7	A486	M385			
8	AM9244CDC	4096	1	S	MNX	300n	300n*	350m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML194f			
9	AM9244CDM	4096	1	S	MNX	300n	300n*	450m	0.0	5.0	80	2.0	4.0m	40	5	C	A418	ML134I			
10	AM9244CPD	4096	1	S	MNX	300n	300n*	350m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML31			
11	AM91L40BDC	4096	1	S	MNX	400n	620n*	368m	0.0	5.0	80	2.0	3.2m	40	0	7	A468	ML162e			
12	AM91L40BDM	4096	1	S	MNX	400n	620n*	368m	0.0	5.0	80	2.0	3.2m	40	5	C	A468	ML162e			
13	AM91L40BPC	4096	1	S	MNX	400n	620n*	368m	0.0	5.0	80	2.0	3.2m	40	0	7	A468	M385			
14	AM9140BDC	4096	1	S	MNX	400n	620n*	578m	0.0	5.0	80	2.0	3.2m	40	0	7	A486	ML162e			
15	AM9140BDM	4096	1	S	MNX	400n	620n*	578m	0.0	5.0	80	2.0	3.2m	40	5	C	A486	ML162e			
16	AM9140BPC	4096	1	S	MNX	400n	620n*	578m	0.0	5.0	80	2.0	3.2m	40	0	7	A486	M385			
17	AM90L44BDC	4096	1	S	MNX	450n	450n*	275m	5.0	5.0	80	2.0	4.0m	40	0	7	A418	ML134I			
18	AM90L44BDM	4096	1	S	MNX	450n	450n*	300m	0.0	5.0	80	2.0	4.0m	40	5	C	A418	ML134I			
19	AM90L44BPC	4096	1	S	MNX	450n	450n*	275m	5.0	5.0	80	2.0	4.0m	40	0	7	A418	ML31			
20	AM92L44BDC	4096	1	S	MNX	450n	450n*	250m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML194f			
21	AM92L44BDM	4096	1	S	MNX	450n	450n*	300m	0.0	5.0	80	2.0	4.0m	40	5	C	A418	ML134I			
22	AM92L44BPC	4096	1	S	MNX	450n	450n*	250m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML31			
23	AM9044BDC	4096	1	S	MNX	450n	450n*	385m	5.0	5.0	80	2.0	4.0m	40	0	7	A418	ML134I			
24	AM9044BDM	4096	1	S	MNX	450n	450n*	450m	0.0	5.0	80	2.0	4.0m	40	5	C	A418	ML134I			
25	AM9044BPC	4096	1	S	MNX	450n	450n*	385m	5.0	5.0	80	2.0	4.0m	40	0	7	A418	ML31			
26	AM9244BDC	4096	1	S	MNX	450n	450n*	350m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML194f			
27	AM9244BDM	4096	1	S	MNX	450n	450n*	450m	0.0	5.0	80	2.0	4.0m	40	5	C	A418	ML134I			
28	AM9244BPC	4096	1	S	MNX	450n	450n*	350m	0.0	5.0	80	2.0	4.0m	40	0	7	A418	ML31			
29	AM91L40ADC	4096	1	S	MNX	500n	770n*	368m	0.0	5.0	80	2.0	3.2m	40	0	7	A468	ML162e			
30	AM91L40ADM	4096	1	S	MNX	500n	770n*	368m	0.0	5.0	80	2.0	3.2m	40	5	C	A468	ML162e			
31	AM91L40APC	4096	1	S	MNX	500n	770n*	368m	0.0	5.0	80	2.0	3.2m	40	0	7	A468	M385			
32	AM9140ADC	4096	1	S	MNX	500n	770n*	578m	0.0	5.0	80	2.0	3.2m	40	0	7	A486	ML162e			
33	AM9140ADM	4096	1	S	MNX	500n	770n*	578m	0.0	5.0	80	2.0	3.2m	40	5	C	A486	ML162e			
34	AM9140APC	4096	1	S	MNX	500n	770n*	578m	0.0	5.0	80	2.0	3.2m	40	0	7	A486	M385			
35#	MSM5104-2	4096	1	S	MXG	200n	310n*	33m	0.0	6.0	-30	3.8	3.2m	40	0	7	A486	ML240			
36#	MSM5104-3	4096	1	S	MXG	300n	420n*	33m	0.0	6.0	-30	3.8	3.2m	40	0	7	A371	ML240			
37	2147H-3	4096	1	S	MXX	55n	55n*	1.2	0.0	5.0	0.8	2.0s	50uΔ	4.5	0	7	A325				
38	2147H-4	4096	1	S	MXX	55n	55n*	1.2	0.0	5.0	0.8	2.0s	50uΔ	4.5	0	7	A325				
39	D2147-3	4096	1	S	MXX	55n	55n*	850m	0.0	5.0	80	2.0s	8.0m	40	0	7	A325	ML359a			
40	2147	4096	1	S	MXX	70n	70n*	1.2	0.0	5.0	0.8	2.0s	50uΔ	4.5	0	7	A325				
41	2147L	4096	1	S	MXX	70n	70n*	1.2	0.0	5.0	0.8	2.0s	50uΔ	4.5	0	7	A325				
42	D2147	4096	1	S	MXX	70n	70n*	750m	0.0	5.0	80	2.0s	8.0m	40	0	7	A325	ML359a			
43	D2147L	4096	1	S	MXX	70n	70n*	675m	0.0	5.0	80	2.0s	8.0m	40	0	7	A325	ML359a			
44	2147-6	4096	1	S	MXX	85n	85n*	1.2	0.0	5.0	0.8	2.0s	50uΔ	4.5	0	7	A325				
45	MD2147	4096	1	S	MXX	85n	85n*	800m	0.0	5.0	80	2.0s	5.0m	40	6	D	A325	ML226			
46	2141-2	4096	1	S	MXX	120n	120n*	1.2	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A325				
47	D2141-2	4096	1	S	MXX	120n	120n*	350m	0.0	5.0	80	2.0s	4.0m	40	0	7	A325	ML359a			
48	2141-3	4096	1	S	MXX	150n	150n*	1.2	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A325				
49	2141L-3	4096	1	S	MXX	150n	150n*	1.2	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A325				
50	D2141-3	4096	1	S	MXX	150n	150n*	350m	0.0	5.0	80	2.0s	4.0m	40	0	7	A325	ML359a			
51	D2141L-3	4096	1	S	MXX	150n	150n*	200m	0.0	5.0	80	2.0s	4.0m	40	0	7	A325	ML359a			
52	2141-4	4096	1	S	MXX	200n	200n*	1.2	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A325				
53	2141L-4	4096	1	S	MXX	200n	200n*	1.2	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A325				
54	D2141-4	4096	1	S	MXX	200n	200n*	275m	0.0	5.0	80	2.0s	4.0m	40	0	7	A325	ML359a			
55	D2141L-4	4096	1	S	MXX	200n	200n*	200m	0.0	5.0	80	2.0s	4.0m	40	0	7	A325	ML359a			
56	2141-5	4096	1	S	MXX	250n	250n*	1.2	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A325				
57	2141L-5	4096	1	S	MXX	250n	250n*	1.2	0.0	5.0	0.8	2.0s	10uΔ	4.5	0	7	A325				
58	D2141-5	4096	1	S	MXX	250n	250n*	275m	0.0	5.0	80	2.0s	4.0m	40	0	7	A325	ML359a			
59	D2141L-5	4096	1	S	MXX	250n	250n*	200m	0.0	5.0	80	2.0s	4.0m	40	0	7	A325	ML359a			
60	S6504	4096	4	S	MCX	300n	420n*	37m	4.7	5.2	0.8	2.0	2.0m	0.4	0	7					
61	9010-1200	4096	8	S	MNX	250n	11	24	11	24	24				6	6					
62	9010-1230	4096	8	S	MNX	250n	8.8	24	8.8	24	24				6	6					
63	Z6132-3CS	4096	8	S	MNG	200n	350n*	200m	0.0	5.0	80	2.0	10uΔ		0	7	A502	ML393			
64	Z6132-3PS	4096	8	S	MNG	200n	350n*	200m	0.0	5.0	80	2.0	10uΔ		0	7	A502	ML199			
65	Z6132-4CS	4096	8	S	MNG	250n	375n*	200m	0.0	5.0	80	2.0	10uΔ		0	7	A502	ML393			
66	Z6132-4PS	4096	8	S	MNG	250n	375n*	200m	0.0	5.0	80	2.0	10uΔ		0	7	A502	ML199			
67	Z6132-5CS	4096	8	S	MNG	300n	425n*	200m	0.0	5.0	80	2.0	10uΔ		0	7	A502	ML393			
68	Z6132-5PS	4096	8	S	MNG	300n	425n*	200m	0.0	5.0	80	2.0	10uΔ		0	7	A502	ML199			
69	TMS4108-15NL	8192	1	D	MNG	150n	375n	462m	0.0	15	80	2.4s	50mΔ		0	7	A424	ML206			
70	TMS4108-20NL	8192	1	D	MNG	200n	375n	462m	0.0	15	80	2.4s	50mΔ		0	7	A424	ML206			
71	TMS4108-25NL	8192	1	D	MNG	250n	410n	462m	0.0	15	80	2.4s	50mΔ		0	7	A424	ML206			
72	2109-3	8192	1	D	MNX	200n	375n	462m	5.0	12	0.8	2.4	10uΔ	5.5	0	7	A351				
73	C2109-3	8192	1	D	MNX	200n	375n	462m	5.0	12	0.8	2.4	4.2m	40	500	Δ	A351	ML358			
74	2109-4	8192	1	D	MNX	250n	410n	462m	5.0	12	0.8	2.4	10uΔ	5.5	0	7	A351				
75	C2109-4	8192	1	D	MNX	250n	410n	462m	5.0	12	0.8	2.4	4.2m	40	500	Δ	A351	ML358			
76	NMC4864	8192	8	P	MXX	150n	250n*	1.3	0.0	5.0	0.8	2.0s	10uΔ		0	7	A529	ML372			
77	TMM416D-2	16384	1	D	MNG	150n	320n*	462m	5.0	12	0.8	2.7	4.2m	40	0	7					
78	MK4516E-10	16384	1	D	MNX	100n	220n*	150m	0.0	5.0	0.8	2.4	10uΔ		0	7	PN16gw	CHZ			
79	M																				

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE (°C)	DRAWINGS	
		1	2							NO. WORDS	BITS PER WORD	MODE	STRUCTURE CODE	NEG. (V)	POS. (V)			MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1▼	NMC5295J-4	16384	1	D	MNG	120n	270n*	200m	0.0	5.0	8.0	2.4s	10uΔ	5.5	0	7	A468	ML127k	
2▼	NMC5295N-4	16384	1	D	MNG	120n	270n*	200m	0.0	5.0	8.0	2.4s	10uΔ	5.5	0	7	A468	ML127k	
3	AM9016FDC	16384	1	D	MNG	150n∅	45n∅	1.0	5.0	12	40	2.4s	4.2m	.40	0	7	A356	ML312a	
4	AM9016FPC	16384	1	D	MNG	150n∅	45n∅	1.0	5.0	12	40	2.4s	4.2m	.40	0	7	A356	ML89d	
5	C2117-2	16384	1	D	MNG	150n	320n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML358
6	F16K2DC	16384	1	D	MNG	150n	375n*	421m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML323
7#	HM4716A-2	16384	1	D	MNG	150n	375n*	420m	5.0	12	80	2.7s	4.2m	.40	500 Δ	0	7	A393	ML89h
8#	HM4716AP-2	16384	1	D	MNG	150n	320n*	1.0	5.0	12	80	2.4s	10uΔ	5.5	2.0mΔ	0	7	A393	ML89h
9#	ITT4116-2D	16384	1	D	MNG	150n	375nΔ*	1.0	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	PN16k	ML127f
10	ITT4116-2N	16384	1	D	MNG	150n	320nΔ*	1.0	5.0	12	80	2.4s	3.2m	.40	0	7	PN16k	ML71f	
11	KMS4116	16384	1	D	MNG	150n	375nΔ*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML336
12#	MSK4116P-2	16384	1	D	MNG	150n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML337
13#	MSK4116S-2	16384	1	D	MNG	150n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML337
14#	M4116-2D1	16384	1	D	MNG	150n	320n	462m	5.0	12	80	2.4	4.2m	.40	500	0	7	A356	
15#	M4116-2F1	16384	1	D	MNG	150n	320n	462m	5.0	12	80	2.4	4.2m	.40	500	0	7	A356	
16#	M4116P-2B1	16384	1	D	MNG	150n	320n	462m	5.0	12	80	2.4	10u	0.0	500 Δ	0	7	A356	ML225
17#	M4116P-2F1	16384	1	D	MNG	150n	320n	462m	5.0	12	80	2.4	10u	0.0	500 Δ	0	7	A356	ML1m
18#	MB8116H	16384	1	D	MNG	150n	375nΔ*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML1p
19#	MB8216N	16384	1	D	MNG	150n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML372
20#	MCM4517-15C	16384	1	D	MNG	150n	300n*	150m	0.0	5.0	80	2.4s	10uΔ	5.5	0	7	A528	ML376	
21#	MCM4517-15P	16384	1	D	MNG	150n	300n*	150m	0.0	5.0	80	2.4s	10uΔ	5.5	0	7	A528	ML376	
22	MK4116N-2	16384	1	D	MNG	150n	320n	462m	5.0	12	80	2.2	4.2m	.40	500	0	7	A356	ML349
23	MK4116P-2	16384	1	D	MNG	150n	320n	462m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A356	ML225
24	MM5290J-2	16384	1	D	MNG	150n	375n*	462m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML127k
25	MM5290N-2	16384	1	D	MNG	150n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML178
26	MM5298AJ-2	16384	1	D	MNG	150n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML178
27	MM5298AN-2	16384	1	D	MNG	150n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML178
28	MM5298BJ-2	16384	1	D	MNG	150n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML178
29	MM5298BN-2	16384	1	D	MNG	150n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML178
30#	MSM3716-2AS	16384	1	D	MNG	150n	375n*	528m	0.0	15	80	2.4	4.2m	.40	500kΔ	0	7	A356	
31▼	TMM416P-2	16384	1	D	MNG	150n	320n*	462m	5.0	12	0.8	2.7	4.2m	.40	0	7	A340	ML349	
32	TMS4116-15JDL	16384	1	D	MNG	150n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A340	ML206
33	TMS4116-15NL	16384	1	D	MNG	150n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A340	ML209
34#	uPD416C-3	16384	1	D	MNG	150n	375n*	421m	5.0	12	4.0	2.4	4.2m	.40	0	7	A445	ML349	
35#	uPD416D-3	16384	1	D	MNG	150n	375n*	421m	5.0	12	4.0	2.4	4.2m	.40	0	7	A445	ML364	
36	AM9016EDC	16384	1	D	MNG	200n∅	55n∅	1.0	5.0	12	40	2.4s	4.2m	.40	0	7	A356	ML312a	
37	AM9016EPC	16384	1	D	MNG	200n∅	55n∅	1.0	5.0	12	40	2.4s	4.2m	.40	0	7	A356	ML89d	
38	C2117-3	16384	1	D	MNG	200n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML358
39	F16K3DC	16384	1	D	MNG	200n	375n*	421m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML323
40#	HM4716A-3	16384	1	D	MNG	200n	375n*	420m	5.0	12	80	2.7s	4.2m	.40	500 Δ	0	7	A393	ML89h
41#	HM4716AP-3	16384	1	D	MNG	200n	375n*	1.0	5.0	12	80	2.4s	10uΔ	5.5	2.0mΔ	0	7	A393	ML89h
42#	HYB4116-A3	16384	1	D	MNG	200n	375n*	1.0	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML302
43#	HYB4116-P3	16384	1	D	MNG	200n	375n*	1.0	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML336
44#	ITT4116-3D	16384	1	D	MNG	200n	375nΔ*	1.0	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	PN16k	ML127f
45	ITT4116-3N	16384	1	D	MNG	200n	375nΔ*	1.0	5.0	12	80	2.4s	3.2m	.40	0	7	PN16k	ML71f	
46#	M5K4116P-3	16384	1	D	MNG	200n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML336
47#	M5K4116S-3	16384	1	D	MNG	200n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML337
48#	M4116-3D1	16384	1	D	MNG	200n	375n	462m	5.0	12	8	2.4	4.2m	.40	500	0	7	A356	
49#	M4116-3F1	16384	1	D	MNG	200n	375n	462m	5.0	12	80	2.4	4.2m	.40	500	0	7	A356	
50#	M4116P-3B1	16384	1	D	MNG	200n	375n	462m	5.0	12	80	2.4	10u	0.0	500 Δ	0	7	A356	ML225
51#	M4116P-3F1	16384	1	D	MNG	200n	375n	462m	5.0	12	80	2.4	10u	0.0	500 Δ	0	7	A356	ML225
52#	MB8116E	16384	1	D	MNG	200n	375nΔ*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A351	ML1m
53	MK4116N-3	16384	1	D	MNG	200n	375n	462m	5.0	12	80	2.2	4.2m	.40	500	0	7	A356	ML349
54	MK4116P-3	16384	1	D	MNG	200n	375n	462m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A356	ML225
55	MKB4116E-93	16384	1	D	MNG	200n	375n	462m	0.0	12	80	2.4	10uΔ	5.5	5	8	A356	FL74	
56	MKB4116F-93	16384	1	D	MNG	200n	375n	462m	0.0	12	80	2.4	10uΔ	5.5	5	8	A356	FL73	
57	MKB4116J-83	16384	1	D	MNG	200n	375n	462m	0.0	12	80	2.4	10uΔ	5.5	5	8	A356	ML350	
58	MKB4116J-93	16384	1	D	MNG	200n	375n	462m	0.0	12	80	2.4	10uΔ	5.5	5	8	A356	ML350	
59	MKB4116P-83	16384	1	D	MNG	200n	375n	462m	0.0	12	80	2.4	10uΔ	5.5	5	8	A356	ML225	
60	MKB4116P-93	16384	1	D	MNG	200n	375n	462m	0.0	12	80	2.4	10uΔ	5.5	5	8	A356	ML225	
61	MM5290J-3	16384	1	D	MNG	200n	375n*	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML127k
62	MM5290N-3	16384	1	D	MNG	200n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML178
63	MM5298AJ-3	16384	1	D	MNG	200n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML127k
64	MM5298AN-3	16384	1	D	MNG	200n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML178
65	MM5298BJ-3	16384	1	D	MNG	200n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML127k
66	MM5298BN-3	16384	1	D	MNG	200n	375n	528m	5.0	12	80	2.4	4.2m	.40	500 Δ	0	7	A351	ML178
67#	MN4116	16384	1	D	MNG	200n	462m	0.0	5.0	12	80	2.4	4.2m	.40	0	7	A356	ML225	
68#	MSM3716-3AS	16384	1	D	MNG	200n	375n*	528m	0.0	15	80	2.4	4.2m	.40	500kΔ	0	7	A356	
69#	TMM416D-3	16384	1	D	MNG	200n	370n*	462m	5.0	12	0.8	2.7	4.2m	.40	0	7	A340	ML372	
70▼	TMM416P-3	16384	1	D	MNG	200n	375n*	462m	5.0	12	0.8	2.7	4.2m	.40	0	7	A340	ML349	
71	TMS4116-20JDL	16384	1	D	MNG	200n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A340	ML206
72	TMS4116-20NL	16384	1	D	MNG	200n	375n*	462m	5.0	12	80	2.4s	4.2m	.40	500 Δ	0	7	A340	ML209
73#	uPD416C-2	16384	1	D	MNG	200n	375n*	421m	5.0	12	4.0	2.4	4.2m	.40	0	7	A445	ML349	
74#	uPD416D-2	16384	1	D	MNG	200n	375n*	421m	5.0	1									

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS					
		1	2						M	D	STRUCTURE CODE	MAX ACCESS TIME (s)	NEG. (V)	POS. (V)			MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1#	uPD416D	16384	1	D	MNG	300n	510n*	421m	5.0	12	4.0	2.4	4.2m	.40	0	7	A445	ML364				
2#	uPD416C-E	16384	1	D	MNG	350n	510n*	421m	5.0	12	4.0	2.4	4.2m	.40	0	7	A445	ML349				
3#	uPD416D-E	16384	1	D	MNG	350n	510n*	421m	5.0	12	4.0	2.4	4.2m	.40	0	7	A445	ML364				
4	2117-2	16384	1	D	MNX	150n	320nΔ	462m	5.0	12	0.8	2.4s	10uΔ	5.5	0	7	A351					
5	D2117-2	16384	1	D	MNX	150n	320n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	1	8	A351	ML359			
6	MCM4116AC15	16384	1	D	MNX	150n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML372			
7	MCM4116AL15	16384	1	D	MNX	150n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML371			
8	MCM4116BP-15	16384	1	D	MNX	150n	375n	1.0 □	4.5	13	0.8	2.4s	10uΔ†		2.0mΔ	0	6	A356	ML376			
9	MCM4116C15	16384	1	D	MNX	150n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML372			
10	MCM4116L15	16384	1	D	MNX	150n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML371			
11	2117-3	16384	1	D	MNX	200n	375nΔ	462m	5.0	12	0.8	2.4s	10uΔ	5.5	0	7	A351					
12	D2117-3	16384	1	D	MNX	200n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	1	8	A351	ML359			
13	MCM4116AC20	16384	1	D	MNX	200n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML372			
14	MCM4116AL20	16384	1	D	MNX	200n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML371			
15	MCM4116BC-20	16384	1	D	MNX	200n	375n	1.0 □	4.5	13	0.8	2.4s	10uΔ†		2.0mΔ	0	6	A356	ML327			
16	MCM4116C20	16384	1	D	MNX	200n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML372			
17	MCM4116L20	16384	1	D	MNX	200n	375n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML371			
18	MCM6616L20	16384	1	D	MNX	200n	375nΔ*	600m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML1e			
19	MCM6616P20	16384	1	D	MNX	200n	375nΔ*	600m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML145			
20	2117-4	16384	1	D	MNX	250n	410nΔ	462m	5.0	12	0.8	2.4s	10uΔ	5.5	0	7	A351					
21	D2117-4	16384	1	D	MNX	250n	410n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	1	8	A351	ML359			
22	MCM4116AC25	16384	1	D	MNX	250n	410n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML372			
23	MCM4116AL25	16384	1	D	MNX	250n	410n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML371			
24	MCM4116C25	16384	1	D	MNX	250n	410n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML372			
25	MCM4116L25	16384	1	D	MNX	250n	410n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML371			
26	MCM6616L25	16384	1	D	MNX	250n	415nΔ*	600m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML1e			
27	MCM6616P25	16384	1	D	MNX	250n	415nΔ*	600m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML145			
28	C2117-5	16384	1	D	MNX	300n	490n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	1	8	A351	ML358			
29	MCM4116AC30	16384	1	D	MNX	300n	480n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML372			
30	MCM4116AL30	16384	1	D	MNX	300n	480n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML371			
31	MCM4116BC-30	16384	1	D	MNX	300n	660n	1.0 □	4.5	13	0.8	2.4s	10uΔ†		2.0mΔ	0	6	A356	ML327			
32	MCM4116C30	16384	1	D	MNX	300n	480n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML372			
33	MCM4116L30	16384	1	D	MNX	300n	480n*	462m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML371			
34	MCM6616L30	16384	1	D	MNX	300n	660nΔ*	600m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML1e			
35	MCM6616P30	16384	1	D	MNX	300n	660nΔ*	600m	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A356	ML145			
36	MCM4116BC-25	16384	1	D	MNX	250m	515n	1.0 □	4.5	13	0.8	2.4s	10uΔ†		2.0mΔ	0	6	A356	ML327			
37#	MB8132EH	32768	1	D	MNG	150n	320n*	250m†	2.5	7.0	.80	2.2	12m	.40	500 Δ	0	7	A412b	ML1p			
38#	MB8132EL	32768	1	D	MNG	150n	320n*	250m†	2.5	7.0	.80	2.2	12m	.40	500 Δ	0	7	A412a	ML1p			
39#	MCM6630L15	32768	1	D	MNG	150n	300n*	275m	0.0	5.0	.80	2.4s	10uΔ	5.5	0	7	A437	ML318				
40#	MCM6631L15	32768	1	D	MNG	150n	300n*	275m	0.0	5.0	.80	2.4s	10uΔ	5.5	0	7	A437	ML318				
41#	MCM6633L15	32768	1	D	MNG	150n	300n*	275m	0.0	5.0	.80	2.4s	10uΔ	5.5	0	7	A437	ML318				
42	TMS4132-15JDL	32768	1	D	MNG	150n	375n*	380m†	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A340a	ML210d			
43#	MCM6630L20	32768	1	D	MNG	200n	330n*	275m	0.0	5.0	.80	2.4s	10uΔ	5.5	0	7	A437	ML318				
44#	MCM6631L20	32768	1	D	MNG	200n	330n*	275m	0.0	5.0	.80	2.4s	10uΔ	5.5	0	7	A437	ML318				
45#	MCM6633L20	32768	1	D	MNG	200n	330n*	275m	0.0	5.0	.80	2.4s	10uΔ	5.5	0	7	A437	ML318				
46	MK4332D-3	32768	1	D	MNG	200n	375n*	482m	5.0	12	.80	2.2	10uΔ	.40	500 Δ	0	7	A414	ML315			
47	TMS4132-20JDL	32768	1	D	MNG	200n	375n*	380m†	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A340a	ML210d			
48	TMS4132-25JDL	32768	1	D	MNG	250n	410n*	380m†	5.0	12	.80	2.4s	4.2m	.40	500 Δ	0	7	A340a	ML210d			
49#	M58764S-12	65536	1	D		120n	230n*	200m	0.0	5.0	0.8	2.4s	10uΔ		0	6	A470	ML□				
50#	MK4164E-12	65536	1	D		120n	265n*Δ	330m	0.0	5.0	0.8	2.4	10uΔ		0	7	PN16gx	CH□				
51#	MK4164E-15	65536	1	D		150n	325n*Δ	330m	0.0	5.0	0.8	2.4	10uΔ		0	7	PN16gx	CH□				
52#	MK4164N-15	65536	1	D		150n	325n*Δ	330m	0.0	5.0	0.8	2.4	10uΔ		0	7	PN16gx	CH□				
53	MK4164J-10	65536	1	D	MN□	100n	235n	300m	0.0	5.0	.80	2.4	10uΔ	5.5	0	7	PN16gx	ML349				
54	MK4164N-10	65536	1	D	MN□	100n	235n	300m	0.0	5.0	.80	2.4	10uΔ	5.5	0	7	PN16gx	ML60d				
55	MK4164J-12	65536	1	D	MN□	120n	265n	300m	0.0	5.0	.80	2.4	10uΔ	5.5	0	7	PN16gx	ML349				
56	MK4164N-12	65536	1	D	MN□	120n	265n	300m	0.0	5.0	.80	2.4	10uΔ	5.5	0	7	PN16gx	ML60d				
57	MCM6664-15C	65536	1	D	MNG		300n*Δ	275m	0.0	5.0	0.8	2.4s	10uΔ	5.5	2.0mΔ	0	6	PN16gx	ML349			
58	MCM6664-15L	65536	1	D	MNG		300n*Δ	275m	0.0	5.0	0.8	2.4s	10uΔ	5.5	2.0mΔ	0	6		ML318			
59	MCM6664-20C	65536	1	D	MNG		330n*Δ	275m	0.0	5.0	0.8	2.4s	10uΔ	5.5	2.0mΔ	0	6		ML317			
60	MCM6664-20L	65536	1	D	MNG		330n*Δ	275m	0.0	5.0	0.8	2.4s	10uΔ	5.5	2.0mΔ	0	6		ML317			
61	NMC4164J-1	65536	1	D	MNG	100n	235n	220m	0.0	5.0	.80	2.4	4.2m	.40	0	7	A469	ML280				
62	NMC4164J-2	65536	1	D	MNG	120n	270n	220m	0.0	5.0	.80	2.4	4.2m	.40	0	7	A469	ML280				
63#	HM4864-2	65536	1	D	MNG	150n	270n	1.0 □	0.0	5.0	.80	2.4	10uΔ	5.5	2.0mΔ	0	7	A412c	ML84			
64#	M58764S-15	65536	1	D	MNG	150n	260n*	200m	0.0	5.0	0.8	2.4s	10uΔ		0	6	A470	ML□				
65	MCM6665-15L	65536	1	D	MNG	150n	300n*	275m	0.0	5.0	.80	2.4s	10uΔ	5.5	250 Δ	0	7	A437	ML318			
66	TMS4164-15JDL	65536	1	D	MNG	150n	250n*	125m†	0.0	5.0	.80	2.4s	4.2m	.40	250 Δ	0	7	A424	ML210d			
67	TMS4164JDL	65536	1	D	MNG	150n	260n	125m	0.0	10	.80	2.4s	50m□		0	7	A424	ML206				
68#	HM4864-3	65536	1	D	MNG	200n	335n*	1.0 □	0.0	5.0	.80	2.4	10uΔ	5.5	2.0mΔ	0	7	A412c	ML84			
69#	MB8164E	65536	1	D	MNG	200n	320n	250m†	2.5	7.0	.80	2.4	12m	.40	0	7	A412c	ML1p				
70#	MCM6665-20L	65536	1	D	MNG	200n	330n*	275m	0.0	5.0	.80	2.4s	10uΔ	5.5	0	7	A437	ML318				

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION				3 | OP | 4 |	5 |	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	LOGIC/BLOCK	OUTLINE	
		1 | No. WORDS	2 | BITS PER WORD	MODE | PROG CODE	STRUCTURE | CODE				MAX ACCESS TIME (s)	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)					@ OUT (V)
1	HM1-6611A-9																		
2	MS109	1	9	SE	TAX	70n		0.0	5.0					0 7	Pr Non-Vol		CY8		
3	MS113	1	13	SE	TAX	70n		0.0	5.0					0 7	Pr Non-Vol		ML2		
4	MS116	1	16	SE	TAX	70n		0.0	5.0					0 7	Pr Non-Vol		ML2		
5	MS208	2	8	SE	TAX	70n		0.0	5.0					0 7	Pr Non-Vol		ML2		
6	MS204	4	2	SE	BAX	50nt	8.5m	0.0	5.0	1.4	.20			5 7	PR Non-Vol RMM	B141	CY7b		
7	RM15	8	4	SE	TAX	50nt	8.5m	0.0	5.0	2.0	.80			0 7	PR Non-Vol RMM	B138	ML82		
8	MS115	15	1	SE	TAX	50nt	8.5m	0.0	5.0	1.4	.20			5 7	PR Non-Vol RMM	B140	ML82		
9	RM15Y	15	1	SE	TAX	50nt	8.5m	0.0	5.0	2.0	.80			0 7	PR Non-Vol RMM	B139	ML82		
10	RM32	15	1	SE	TAX	50nt	8.5m	0.0	5.0	2.0	.80			0 7	PR Non-Vol RMM	B137	ML82		
11#	MN1208	16	16	SE	TAX	10	130mt			-2.6	-4.2			2 7	EA ROM	B411	ML355		
12	RM256A#5	16	16	SE	TAX	50nt	8.5m	0.0	5.0	2.0	.80			5 7	PR Non-Vol RMM	PN40A	ML14		
13	AM27LS19DC	32	8	SE	BTD	55n	400m	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	B449	ML312a		
14	AM27LS19DM	32	8	SE	BTD	75n	400m	0.0	5.0	.80	2.0	16m	.45	5 C	PROM	B449	ML312a		
15	AM27LS19FM	32	8	SE	BTD	75n	400m	0.0	5.0	.80	2.0	16m	.45	5 C	PROM	B449	FL33B		
16#	M54730K	32	8	S	BXX	50n	450mt	0.0	5.0					0 7	EPROM;Fld Prg		DLZ		
17#	M54730P	32	8	S	BXX	50n	450mt	0.0	5.0					0 7	EPROM;Fld Prg		DLZ		
18#	TM188	32	8	SC		40n	1.2m	0.0	5.0	.80	2.0	20m		0 7	PROM	B132	ML394		
19	6230-1F	32	8	SC	BTD	50n	625m	0.0	5.0	.80	2.0	12m	.50	0 7	ROM	PN16bw	FL49		
20	6230-1J	32	8	SC	BTD	50n	625m	0.0	5.0	.80	2.0	12m	.50	0 7	ROM	PN16bw	ML280		
21	6230-1N	32	8	SC	BTD	50n	625m	0.0	5.0	.80	2.0	12m	.50	0 7	ROM	PN16bw	ML281		
22	6231-1F	32	8	SC	BTD	50n	625m	0.0	5.0	.80	2.0	12m	.50	0 7	ROM	PN16bw	FL49		
23	6231-1J	32	8	SC	BTD	50n	625m	0.0	5.0	.80	2.0	12m	.50	0 7	ROM	PN16bw	ML280		
24	6231-1N	32	8	SC	BTD	50n	625m	0.0	5.0	.80	2.0	12m	.50	0 7	ROM	PN16bw	ML281		
25	5230-1F	32	8	SC	BTD	60n	625m	0.0	5.0	.80	2.0	8.0m	.50	5 C	ROM	PN16bw	FL49		
26	5230-1J	32	8	SC	BTD	60n	625m	0.0	5.0	.80	2.0	8.0m	.50	5 C	ROM	PN16bw	ML280		
27	5230-1N	32	8	SC	BTD	60n	625m	0.0	5.0	.80	2.0	8.0m	.50	5 C	ROM	PN16bw	ML281		
28	5231-1F	32	8	SC	BTD	60n	625m	0.0	5.0	.80	2.0	8.0m	.50	5 C	ROM	PN16bw	FL49		
29	5231-1J	32	8	SC	BTD	60n	625m	0.0	5.0	.80	2.0	8.0m	.50	5 C	ROM	PN16bw	ML280		
30	5231-1N	32	8	SC	BTD	60n	625m	0.0	5.0	.80	2.0	8.0m	.50	5 C	ROM	PN16bw	ML281		
31	N7488B	32	8	SC	BTX	50n	400m	0.0	5.0	.40	2.4	16m	.40	0 7	PROM	B67	ML132		
32	N7488W	32	8	SC	BTX	50n	400m	0.0	5.0	.40	2.4	16m	.40	0 7	PROM	B67	FL25		
33	N8224B	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	0 7	PROM	B67	ML89a		
34	N8224F	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	0 7	PROM	B67	ML60a		
35	N8224W	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	0 7	PROM	B67	FL25		
36#	RC8224B	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	5 C	PROM	B67	ML89a		
37#	RC8224F	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	5 C	PROM	B67	ML60a		
38#	RC8224W	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	5 C	PROM	B67	FL25		
39	S8224B	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	5 C	PROM	B67	ML89a		
40	S8224F	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	5 C	PROM	B67	ML60a		
41	S8224W	32	8	SC	BTX	50n	400m	0.0	5.0	.40		9.6m	.40	5 C	PROM	B67	FL25		
42#	T154D1	32	8	SC	BTX	50n	400m	0.0	5.0	.90	2.0	10m	.45	0 7	PROM	PN16br	ML60		
43	AM27LS18DM	32	8	SE	BTD	75n	400m	0.0	5.0	.80	2.0	16m	.45	5 C	PROM	B449	ML312a		
44	AM27LS18FM	32	8	SE	BTD	75n	400m	0.0	5.0	.80	2.0	16m	.45	5 C	PROM	B449	FL33B		
45	MCM10139F	32	8	SE	BEX	20n	754m	5.2	0.0	-4.2	-1.0	50m		0 7	PROM	B293	FL34		
46	MCM10139L	32	8	SE	BEX	20n	754m	5.2	0.0	-4.2	-1.0	50m		0 7	PROM	B293	ML372		
47	MCM10539F	32	8	SE	BEX	20n	754m	5.2	0.0	-4.2	-1.0	50m		5 C	PROM	B293	FL34		
48	MCM10539L	32	8	SE	BEX	20n	754m	5.2	0.0	-4.2	-1.0	50m		5 C	PROM	B293	ML372		
49	10139F	32	8	SE	BEX	22n	754m	5.2	0.0	-1.6	-.96			3 8	PROM	B371	ML127r		
50	10139N	32	8	SE	BEX	22n	754m	5.2	0.0	-1.6	-.96			3 8	PROM	B371	ML132		
51#	GXB10139	32	8	SE	BEX	22n	754m	5.2	0.0	-1.4	-.96	50m		3 8	PROM	B371	ML132		
52	53S080F	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.50	5 C	PROM	PN16bw	FL49		
53	53S080J	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.50	5 C	PROM	PN16bw	ML280		
54	53S080N	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.50	5 C	PROM	PN16bw	ML281		
55	53S081F	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.50	5 C	PROM	PN16bw	FL49		
56	53S081J	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.50	5 C	PROM	PN16bw	ML280		
57	53S081N	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.50	5 C	PROM	PN16bw	ML281		
58	63S080F	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	FL49		
59	63S080J	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	ML280		
60	63S080N	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	ML281		
61	63S081F	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	FL49		
62	63S081J	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	ML280		
63	63S081N	32	8	SE	BTD	13nt	325mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	ML281		
64	DM87S188J	32	8	SE	BTD	15n	700mt	0.0	5.0	.80	2.0	12m	.45	0 7	PROM	B427	ML280		
65	DM87S188N	32	8	SE	BTD	15n	600mt	0.0	5.0	.80	2.0	12m	.45	0 7	PROM	B427	ML209		
66	DM87S288J	32	8	SE	BTD	15n	600mt	0.0	5.0	.80	2.0	12m	.45	0 7	PROM	B427	ML280		
67	DM87S288N	32	8	SE	BTD	15n	600mt	0.0	5.0	.80	2.0	12m	.45	0 7	PROM	B427	ML209		
68	DM77S188J	32	8	SE	BTD	20n	700mt	0.0	5.0	.80	2.0	12m	.50	5 C	PROM	B427	ML280		
69	DM77S288J	32	8	SE	BTD	20n	700mt	0.0	5.0	.80	2.0	12m	.50	5 C	PROM	B427	ML280		
70	53LS080F	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	12m	.50	5 C	PROM	PN16bw	FL49		
71	53LS080J	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	12m	.50	5 C	PROM	PN16bw	ML280		
72	53LS080N	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	12m	.50	5 C	PROM	PN16bw	ML281		
73	53LS081F	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	12m	.50	5 C	PROM	PN16bw	FL49		
74	53LS081J	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	12m	.50	5 C	PROM	PN16bw	ML280		
75	53LS081N	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	12m	.50	5 C	PROM	PN16bw	ML281		
76	63LS080F	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	FL49		
77	63LS080J	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	ML280		
78	63LS080N	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	ML281		
79	63LS081F	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	FL49		
80	63LS081J	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	ML280		
81	63LS081N	32	8	SE	BTD	24nt	175mt	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	PN16bw	ML281		
82	DM74S188J	32	8	SE	BTD	35n	550m	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	B132	ML280		
83	DM74S188N	32	8	SE	BTD	35n	550m	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	B132	ML178		
84	DM74S288J	32	8	SE	BTD	35n	550m	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	B132	ML280		
85	DM74S288N	32	8	SE	BTD	35n	550m	0.0	5.0	.80	2.0	16m	.45	0 7	PROM	B			

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		MODE		MAX ACCESS TIME (S)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	DRAWINGS			
		No. WORDS	BITS PER WORD	PROG. CODE	STRUCTURE CODE			NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT		GENERAL DESCRIPTION	LOGIC/BLOCK	OUTLINE	
1	IM5600CDE	32	8	SE	BTX	50nØ	500m	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B1a	ML1a
2	IM5600CFE	32	8	SE	BTX	50nØ	1.5mØ	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B1a	FL76
3	IM5600CJE	32	8	SE	BTX	50nØ	1.5mØ	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B1a	ML396
4	IM5600CPE	32	8	SE	BTX	50nØ	500m	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B1a	ML89
5	IM5600MDE	32	8	SE	BTX	50nØ	500m	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B1a	ML1a
6	IM5600MFE	32	8	SE	BTX	50nØ	500m	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B1a	FL27
7	IM5600MJE	32	8	SE	BTX	50nØ	1.5mØ	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B1a	ML396
8	IM5610CDE	32	8	SE	BTX	50nØ	500m	0.0	5.0	.80	2.0Ø	40uΔ	5.5	0	7	PROM	B1a	ML1a
9	IM5610CFE	32	8	SE	BTX	50nØ	1.5mØ	0.0	5.0	.80	2.0Ø	40uΔ	5.5	0	7	PROM	B1a	FL76
10	IM5610CJE	32	8	SE	BTX	50nØ	1.5mØ	0.0	5.0	.80	2.0Ø	40uΔ	5.5	0	7	PROM	B1a	ML396
11	IM5610CPE	32	8	SE	BTX	50nØ	500m	0.0	5.0	.80	2.0Ø	40uΔ	5.5	0	7	PROM	B1a	ML89
12	IM5610MDE	32	8	SE	BTX	50nØ	500m	0.0	5.0	.80	2.0Ø	100uΔ	5.5	5	C	PROM	B1a	ML1a
13	IM5610MFE	32	8	SE	BTX	50nØ	500m	0.0	5.0	.80	2.0Ø	100uΔ	5.5	5	C	PROM	B1a	FL27
14	IM5610MJE	32	8	SE	BTX	50nØ	1.5mØ	0.0	5.0	.80	2.0Ø	100uΔ	5.5	5	C	PROM	B1a	ML396
15#	M54730S	32	8	SE	BTX	50nØ	400m	0.0	5.0	.80	2.0	16m	.45	0	7	PROM	B53	ML337
16	N8223B	32	8	SE	BTX	50nØ	400mØ	0.0	5.0	.80	2.0	16m	.50	0	7	PROM	B67	ML89a
17	N8223F	32	8	SE	BTX	50nØ	400mØ	0.0	5.0	.80	2.0	16m	.50	0	7	PROM	B67	ML60a
18	N8223W	32	8	SE	BTX	50nØ	400mØ	0.0	5.0	.80	2.0	16m	.50	0	7	PROM	B67	FL25
19#	RC8223B	32	8	SE	BTX	50nØ	400mØ	0.0	5.0	.80	2.0	9.6m	.40	5	C	PROM	B67	ML89a
20#	RC8223F	32	8	SE	BTX	50nØ	400mØ	0.0	5.0	.80	2.0	9.6m	.40	5	C	PROM	B67	ML60a
21#	RC8223W	32	8	SE	BTX	50nØ	400mØ	0.0	5.0	.80	2.0	9.6m	.40	5	C	PROM	B67	FL25
22	5330-1D	32	8	SE	BTX	60n	500mØ	0.0	5.0	8.0	2.0Δ	10m	.50	5	C	Fid Prog	B132	ML158
23	5331-1D	32	8	SE	BTX	60n	625mØ	0.0	5.0	8.0	2.0Ø	10m	.50	5	C	Fid Prog	B132	ML158
24#	RC82S23F	32	8	SE	BTX	65n	425m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B196	ML127r
25#	RC82S23N	32	8	SE	BTX	65n	425m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B67	ML132
26#	RC82S123F	32	8	SE	BTX	65n	425m	0.0	5.0	.80	2.0Ø	16m	.50	5	C	PROM	B196	ML127r
27#	RC82S123N	32	8	SE	BTX	65n	425m	0.0	5.0	.80	2.0Ø	16m	.50	5	C	PROM	B67	ML132
28	S82S23F	32	8	SE	BTX	65n	425m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B196	ML127r
29	S82S123F	32	8	SE	BTX	65n	425m	0.0	5.0	.80	2.0Ø	16m	.50	5	C	PROM	B196	ML127r
30	RM256A#4	32#	8#	SE	TAX	50nt	8.5m	0.0	5.0	2.0	.80	4.8m	.50	5	7	PR Non-Vol RMM	PN40A	ML14
31#	SDA2006	32	16	DC	MNG		450m	0.0	25	.50	4.0			0	7	EAROM		ML338
32	ER2050	32	16	SE	MPN	10u	238m	28	5.0	.80	3.5	1.5m	.80	0	7	Non-Vol EAROM	B237	ML252
33	NC7051	32	16	SE	MXN	4.0u	360m	30	5.0	.60	3.5	1.6m	.60	0	7	EAROM	B407	ML7
34	ER2051	32	16	SE	MXX	3.0u	500mØ	28	5.0	.80	3.5	1.6m	.80	0	7	EAROM	B237	ML252
35	ER2051HR	32	16	SE	MXX	4.0u	500mØ	28	5.0	.60	3.5	1.6m	.80	5	C	EAROM	B237	ML325
36#	N82S200I	48	8	SC	BTX	50n	850m	0.0	5.0	.85	2.0Ø	9.6m	.45	0	7	16 Input Var	Z24	ML218b
37#	N82S200N	48	8	SC	BTX	50n	850m	0.0	5.0	.85	2.0Ø	9.6m	.45	0	7	16 Input Var	Z24	ML290
38#	N82S201I	48	8	SC	BTX	50n	850m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	16 Input Var	Z24	ML218b
39#	N82S201N	48	8	SC	BTX	50n	850m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	16 Input Var	Z24	ML290
40#	RC82S200I	48	8	SC	BTX	80n	900m	0.0	5.0	.80	2.0Ø	9.6m	.50	5	C	16 Input Var	Z24	ML218b
41#	RC82S200N	48	8	SC	BTX	80n	900m	0.0	5.0	.80	2.0Ø	9.6m	.50	5	C	16 Input Var	Z24	ML199
42#	RC82S201I	48	8	SC	BTX	80n	900m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	16 Input Var	Z24	ML218b
43#	RC82S201N	48	8	SC	BTX	80n	900m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	16 Input Var	Z24	ML199
44	N82S106I	48	8	SE	BDT	70n	850m	0.0	5.0	.85	2.0Δ	4.8m	.45	0	7	16 Inp PROM	B352	ML218b
45	N82S106N	48	8	SE	BDT	70n	850m	0.0	5.0	.85	2.0Δ	4.8m	.45	0	7	16 Inp PROM	B352	ML290
46	N82S107I	48	8	SE	BDT	70n	850m	0.0	5.0	.85	2.0Ø	4.8m	.45	0	7	16 Inp PROM	B352	ML218b
47#	RC82S107I	48	8	SE	BDT	100n	900m	0.0	5.0	.80	2.0Ø	4.8m	.50	5	C	16 Inp PROM	B352	ML218b
48#	S82S106I	48	8	SE	BDT	100n	900m	0.0	5.0	.80	2.0Δ	4.8m	.50	5	C	16 Inp PROM	B352	ML218b
49	S82S107I	48	8	SE	BDT	100n	900m	0.0	5.0	.80	2.0Ø	4.8m	.50	5	C	16 Inp PROM	B352	ML218b
50	RM256A#3	64#	4#	SE	TAX	50nt	8.5m	0.0	5.0	2.0	.80	4.8m	.50	5	7	PR Non-Vol RMM	PN40A	ML14
51	MCM5003AL	64	8	SE	BTX	120n	600m	0.0	5.0	.45#	2.5Δ	12m	.45	0	7	PROM	B61	ML150a
52	MCM5003L	64	8	SE	BTX	120n	600m	0.0	5.0	.45#	2.5Δ	12m	.45	0	7	PROM	B61	ML319
53	MCM5004AL	64	8	SE	BTX	120n	600m	0.0	5.0	.45#	2.5	12m	.45	0	7	PROM	B61	ML150a
54	MCM5004L	64	8	SE	BTX	120n	600m	0.0	5.0	.45#	2.5	12m	.45	0	7	PROM	B61	ML319
55	MCM5303AL	64	8	SE	BTX	120n	600m	0.0	5.0	.50#	2.5Δ	12m	.50	5	C	PROM	B61	ML150a
56	MCM5303L	64	8	SE	BTX	120n	600m	0.0	5.0	.50#	2.5Δ	12m	.50	5	C	PROM	B61	ML319
57	MCM5304AL	64	8	SE	BTX	120n	600m	0.0	5.0	.50#	2.5	12m	.50	5	C	PROM	B61	ML150a
58	MCM5304L	64	8	SE	BTX	120n	600m	0.0	5.0	.50#	2.5	12m	.50	5	C	PROM	B61	ML150a
59	JANM38510/20101BJB	64	8	SE	BTX	140n#	575mØ	0.0	5.0	.80	2.0	30mØ	.50	5	C	PROM	B105	ML126
60	JANM38510/20101CJB	64	8	SE	BTX	140n#	575mØ	0.0	5.0	.80	2.0	30mØ	.50	5	C	PROM	B105	ML126
61	NC7055	64	8	SE	MXN	4.0u	300m	30	5.0	.60	3.5#	1.6m	.60	0	7	EAROM	B409	ML7
62	ER2055	64	8	SE	MXX	4.0u	500mØ	28	5.0	.80	3.5	1.6m	.80	0	7	EAROM	B401	ML242
63	HRM2048	64	32	SE	TAX	240m	400mØ	0.0	5.0	.80	2.0			0	7	Programmable	B91	ML113
64	HRM2048#6	64#	32#	SE	TAX	500n	640mØ	0.0	5.0	2.0	.80			0	7	PR Non-Vol RMM	B91	ML113
65#	NC7400	100	14	SE	MNX	20u#	300m	35	0.0	.30	-1.5			2	7	EAROM	B236	ML362
66#	M5G1400P	100	14	SE	MPN	20u	333m	35	0.0	-8.0	-1.0			0	7	EAROM	B236	TO8
67	ER1400	100	14	SE	MPN	3.0m	300m	35	0.0	-8.0	-1.0			0	7	Serial I/O	B236	
68	RM256A#2	128#	2#	SE	TAX	50nt	8.5m	0.0	5.0	2.0	.80			5	7	PR Non-Vol RMM	PN40A	ML14
69#	NC7053L	128	8	SC	MNX	1.1mΔ1	300mØ	5.0	5.0	.80	2.4	10uΔ		0	7	EAROM	Z33	
70#	NC7053M	128	8	SC	MNX	1.1mΔ1	300mØ	5.0	5.0	.80	2.4	10uΔ		5	C	EAROM	Z33	
71#	NC7053P	128	8	SC	MNX	1.1mΔ1	300mØ	5.0	5.0	.80	2.4	10uΔ		0	7	EAROM	Z33	
72	RO6-1024/8	128	8	SC	MPN	1.0uØ		12	5.0	.80	3.5#	1.6m	.40	5	C		B233b	ML34e
73	RO7-1024/8	128	8	SC	MPN	1.0uØ		12	5.0	.80	3.5#	1.6m	.40	0	7		B233b	ML216b
74	UC65253K#1	128#	8	SC	MPX	900n	15mØ	5.0	5.0	.80	2.6	1.6m	.40	5	C		B9k	ML31a
75	UC65254K#1	128#	8	SC	MPX	900n	150mØ	5.0	5.0	.80	2.6	1.6m	.40	5	C		B9k	FL3a
76	UC75255K#1	128#	8	SC	MPX	900n	150mØ	5.0	5.0	.80	2.6	1.6m	.40	0	7		B9k	ML31a
77	UC75254K#1	128#	8	SC	MPX	900n	150mØ	5.0	5.0	.80	2.6	1.6m	.40	0	7		B9k	ML31a
78	3501-9-6G	128	8	SC	MPX	4.2u	215mØ	27	0.0	-2.0	-9.0	1.0uΔ	-15	0	7		B19	ML51
79	UA2525D#1	128	8	SC	MXX	900n	360m	10	0.0	.80#	2.7	1.6m	.40	5	C		B9	ML31a
80	UA3525D#1	128	8	SC	MXX													

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)NO.WDS(2)NO.BITS/W(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE NO.

LINE No.	TYPE No.	ORGANIZATION				MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	LOGIC/BLOCK	DRAWINGS OUTLINE	
		1 No. WORDS	2 BITS PER WORD	3 MODE PROG CODE	4 STRUCTURE CODE			NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)					
1	5201-1J	256	4	SC	BTD	60n	650m	0.0	5.0	.80	2.0s	10m	.50	5	C	ROM	PN16bv	ML280
2	5201-1N	256	4	SC	BTD	60n	625m	0.0	5.0	.80	2.0s	10m	.50	5	C	ROM	PN16bv	ML281
3	93457DM	256	4	SC	BTD	60n	550m	0.0	5.0	.80	2.0A	16m	.45	5	C		B123	ML1k
4	93457FM	256	4	SC	BTD	60n	550m	0.0	5.0	.80	2.0A	16m	.45	5	C		B123	FL14
5	93467DM	256	4	SC	BTD	60n	550m	0.0	5.0	.80	2.0s	16m	.45	5	C		B123	ML1k
6	93467FM	256	4	SC	BTD	60n	550m	0.0	5.0	.80	2.0s	16m	.45	5	C		B123	FL14
7	H5201D	256	4	SC	BTD	60n	650m	0.0	5.0	.80	2.0s	10m	.50	5	C		B50	ML158
8	H5201N	256	4	SC	BTD	60n	650m	0.0	5.0	.80	2.0s	10m	.50	5	C		B50	ML157
9	P3301	256	4	SC	BTD	90n	650m	0.0	5.0	.85	2.0	15m	.45	0	7		PN16bz	ML10b
10	N82S26F	256	4	SC	BTX	35n	685m	0.0	5.0	2.0	.85	16m	.50	0	7	PROM	B87	ML127m
11	N82S29F	256	4	SC	BTX	35n	760m	0.0	5.0	2.0	.85	16m	.50	0	7	PROM	B87	ML127m
12	N82S126I	256	4	SC	BTX	50n	685m	0.0	5.0	.85	2.0	16m	.50	0	7	PROM	PN16bz	ML107
13	N82S129I	256	4	SC	BTX	50n	685m	0.0	5.0	.85	2.0	16m	.50	0	7	PROM	PN16bz	ML107
14	N82S226B	256	4	SC	BTX	50n	600m	0.0	5.0	.85	2.0A	16m	.50	0	7		B198	ML132
15	N82S226F	256	4	SC	BTX	50n	600m	0.0	5.0	.85	2.0A	16m	.50	0	7		B198	ML127m
16	N82S229B	256	4	SC	BTX	50n	600m	0.0	5.0	.85	2.0s	16m	.50	0	7		B198	ML132
17	N82S229F	256	4	SC	BTX	50n	600m	0.0	5.0	.85	2.0s	16m	.50	0	7		B198	ML127m
18	RC82S226F	256	4	SC	BTX	70n	625m	0.0	5.0	.80	2.0A	16m	.50	5	C		B198	ML127m
19	RC82S229F	256	4	SC	BTX	70n	625m	0.0	5.0	.80	2.0s	16m	.50	5	C		B198	ML127m
20	S82S226F	256	4	SC	BTX	70n	625m	0.0	5.0	.80	2.0A	16m	.50	5	C		B198	ML127m
21	S82S229F	256	4	SC	BTX	70n	625m	0.0	5.0	.80	2.0s	16m	.50	5	C		B198	ML127m
22	MCM14524AL	256	4	SC	MCX	1.2u	300u	0.0	15	.01%	14.9	3.4m	1.5	5	C		B120	ML372
23	MCM14524CL	256	4	SC	MCX	1.2u	3.0m	0.0	15	.01%	14.9	3.0m	1.5	4	8		B120	ML372
24	MCM14524CP	256	4	SC	MCX	1.2u	3.0m	0.0	15	.01%	14.9	3.0m	1.5	4	8		B120	ML145
25	N24101	256	4	SC	MPG	500n	800m	12	12	4.0	10			2	7		B27	ML84
26	N24111	256	4	SC	MPG	500n	800m	12	12	4.0	10			2	7		B27	ML84
27	RO6-1024/4	256	4	SC	MPN	1.0u	800m	12	5.0	8.0	3.5s	1.6m	.40	5	C		B233a	ML1h
28	RO7-1024/4	256	4	SC	MPN	1.0u	800m	12	5.0	8.0	3.5s	1.6m	.40	0	7		B233a	ML5c
29	UC65253K#3	256	4	SC	MPX	900n	150m	5.0	5.0	.80	2.6	1.6m	.40	5	C		B9n	ML31a
30	UC65254K#3	256	4	SC	MPX	900n	150m	5.0	5.0	.80	2.6	1.6m	.40	5	C		B9n	FL3a
31	UC75253K#3	256	4	SC	MPX	900n	150m	5.0	5.0	.80	2.6	1.6m	.40	0	7		B9n	ML31a
32	UC75254K#3	256	4	SC	MPX	900n	150m	5.0	5.0	.80	2.6	1.6m	.40	0	7		B9n	ML31a
33	UA2525D#2	256	4	SC	MXX	900n	360m	10	0.0	.80	2.7	1.6m	.40	5	C		B9	ML31a
34	UA3525D#2	256	4	SC	MXX	900n	360m	10	0.0	.80	2.7	1.6m	.40	2	7		B9	FL3a
35	UA3525F#2	256	4	SC	MXX	900n	360m	10	0.0	.80	2.7	1.6m	.40	2	7		B9	ML31a
36	F10416DC	256	4	SE	BEX	15n		5.2	0.0	-1.4	-1.1			0	7	PROM	B268	ML1k
37	F10416FC	256	4	SE	BEX	15n		5.2	0.0	-1.4	-1.1			0	7	PROM	B268	FL14
38	F100416DC	256	4	SE	BEX	15n		5.2	0.0	-1.4	-1.1			0	7	PROM	B268	ML1k
39	F100416FC	256	4	SE	BEX	15n		5.2	0.0	-1.4	-1.1			0	7	PROM	B268	FL14
40	10149F	256	4	SE	BEX	20n	750m	5.2	0.0	-1.5	-1.1	20m	-1.1	3	8	Field Program	B424	ML127r
41	GXB10149	256	4	SE	BEX	20n	780m	5.2	0.0	-1.4	-1.1	40m		3	8	Field Program	B266	ML127x
42	MCM10149F	256	4	SE	BEX	30n	540m	5.2	0.0	-96	-1.8	50m		0	7	PROM	B145	FL34
43	MCM10149L	256	4	SE	BEX	30n	540m	5.2	0.0	-96	-1.8	50m		0	7	PROM	B145	ML372
44	MCM10549F	256	4	SE	BEX	30n	540m	5.2	0.0	-93	-1.8	50m		5	C	PROM	B145	FL34
45	MCM10549L	256	4	SE	BEX	30n	540m	5.2	0.0	-93	-1.8	50m		5	C	PROM	B145	ML372
46	53PS140F	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0A	16m	.50	5	C	PROM;Pwr Sw	PN16bv	FL49
47	53PS140J	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0A	16m	.50	5	C	PROM;Pwr Sw	PN16bv	ML280
48	53PS140N	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0A	16m	.50	5	C	PROM;Pwr Sw	PN16bv	ML281
49	53PS141F	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0s	16m	.50	5	C	PROM;Pwr Sw	PN16bv	FL49
50	53PS141J	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0s	16m	.50	5	C	PROM;Pwr Sw	PN16bv	ML280
51	53PS141N	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0s	16m	.50	5	C	PROM;Pwr Sw	PN16bv	ML281
52	63PS140F	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM;Pwr Sw	PN16bv	FL49
53	63PS140J	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM;Pwr Sw	PN16bv	ML280
54	63PS140N	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM;Pwr Sw	PN16bv	ML281
55	63PS141F	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN16bv	FL49
56	63PS141J	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN16bv	ML280
57	63PS141N	256	4	SE	BTD	27n	390m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN16bv	ML281
58	63S140F	256	4	SE	BTD	45n	600m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	PN16bv	FL49
59	63S140J	256	4	SE	BTD	45n	600m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	PN16bv	ML280
60	63S140N	256	4	SE	BTD	45n	600m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	PN16bv	ML281
61	63S141F	256	4	SE	BTD	45n	600m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN16bv	FL49
62	63S141J	256	4	SE	BTD	45n	600m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN16bv	ML280
63	63S141N	256	4	SE	BTD	45n	600m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN16bv	ML281
64	93417DC	256	4	SE	BTD	45n	550m	0.0	5.0	.80	2.0	16m	.45	0	7	Field Program	B123	ML98a
65	93417FC	256	4	SE	BTD	45n	550m	0.0	5.0	.80	2.0A	16m	.45	0	7	Field Program	B123	FL14
66	93417PC	256	4	SE	BTD	45n	550m	0.0	5.0	.80	2.0A	16m	.45	0	7	Field Program	B123	ML170
67	93427DC	256	4	SE	BTD	45n	550m	0.0	5.0	.80	2.0s	16m	.45	0	7	Field Program	B123	ML98a
68	93427FC	256	4	SE	BTD	45n	550m	0.0	5.0	.80	2.0s	16m	.45	0	7	Field Program	B123	FL14
69	93427PC	256	4	SE	BTD	45n	550m	0.0	5.0	.80	2.0s	16m	.45	0	7	Field Program	B123	ML170
70	AM27S20DC	256	4	SE	BTD	45n	650m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	B446	ML312a
71	AM27S21DC	256	4	SE	BTD	45n	650m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B446	ML312a
72	TM621	256	4	SE	BTD	45n	550m	0.0	5.0	.80	2.0A	16m	.45	0	7	Field Program	B123	ML170
73	TM621	256	4	SE	BTD	45n	550m	0.0	5.0	.80	2.0s	16m	.45	0	7	Field Program	B123	ML170
74	DM74S287J	256	4	SE	BTD	50n	650m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B434	ML280
75	DM74S287N	256	4	SE	BTD	50n	650m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B434	ML280
76	DM74S287J	256	4	SE	BTD	50n	650m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	B434	ML280
77	DM74S287N	256	4	SE	BTD	50n	650m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	B434	ML280
78	53S140F	256	4	SE	BTD	55n	600m	0.0	5.0	.80	2.0A	16m	.50	5	C	PROM	PN16bv	FL49
79	53S140J	256	4	SE	BTD	55n	600m	0.0	5.0	.80	2.0A	16m	.50	5	C	PROM	PN16bv	ML280
80	53S140N	256	4	SE	BTD	55n	600m	0.0	5.0	.80	2.0A	16m	.50	5	C	PROM	PN16bv	ML281
81	53S141F	256	4	SE	BTD	55n	600m											

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 OP CODE	4 STRUCTURE CODE	5 MAX ACCESS TIME (s)	MAX OPER. POWER (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS		
		1 No. WORDS	2 BITS PER WORD					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)			LOGIC/BLOCK	OUTLINE	
																		OPER. RANGE CODE
1	53LS140J	256	4	SE	BTD	65n	325m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bv	ML280
2	53LS140N	256	4	SE	BTD	65n	325m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bv	ML281
3	53LS141F	256	4	SE	BTD	65n	325m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bv	FL49
4	53LS141J	256	4	SE	BTD	65n	325m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bv	ML280
5	53LS141N	256	4	SE	BTD	65n	325m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bv	ML281
6	5300-1F	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16co	FL49
7	5300-1J	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16co	ML280
8	5300-1N	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16co	ML281
9	5301-1J	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16co	ML280
10	5301-1N	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16co	ML281
11	JANM38510/20301BEA	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
12	JANM38510/20301BEB	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
13	JANM38510/20301BEC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
14	JANM38510/20301BFC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	FL31
15	JANM38510/20301BFC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
16	JANM38510/20301CEC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
17	JANM38510/20301CFA	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	FL31
18	JANM38510/20301CFB	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	FL31
19	JANM38510/20301CFC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	FL31
20	JANM38510/20302BEA	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
21	JANM38510/20302BEB	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
22	JANM38510/20302BEC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
23	JANM38510/20302BFC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	FL31
24	JANM38510/20302CEA	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
25	JANM38510/20302CEB	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
26	JANM38510/20302CEC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	ML143
27	JANM38510/20302CFC	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B358	FL31
28	5301-1F	256	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16co	FL49
29	N82S27F	256	4	SE	BTX	40n	700m	0.0	5.0	.80	2.0Δ	32m	.50	0	7	PROM	B198	ML127m
30	N82S126B	256	4	SE	BTX	50n	600m	0.0	5.0	.85	2.0Δ	16m	.50	0	7	PROM	B198	ML132
31#	N82S126F	256	4	SE	BTX	50n	600m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B198	ML127m
32	N82S129B	256	4	SE	BTX	50n	600m	0.0	5.0	.85	2.0Δ	16m	.50	0	7	PROM	B198	ML127r
33	N82S129F	256	4	SE	BTX	50n	600m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B198	ML132
34	N82S129N	256	4	SE	BTX	50n	600m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B198	ML132
35	5300-1D	256	4	SE	BTX	60n	600m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B50	ML158
36	5301-1D	256	4	SE	BTX	60n	600m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B50	ML158
37	IM5603ACFE	256	4	SE	BTX	60n	650m	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B412	ML1
38	IM5603ACFE	256	4	SE	BTX	60n	439u%	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B412	FL76
39	IM5603ACPE	256	4	SE	BTX	60n	439u%	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B412	ML399
40	IM5603AMJE	256	4	SE	BTX	60n	439u%	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B412	ML396
41	IM5623ACDE	256	4	SE	BTX	60n	650m	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B412	ML1
42	IM5623ACFE	256	4	SE	BTX	60n	439u%	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B412	FL76
43	IM5623ACJE	256	4	SE	BTX	60n	439u%	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B412	ML396
44	IM5623ACPE	256	4	SE	BTX	60n	439u%	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B412	ML399
45	IM5623AMDE	256	4	SE	BTX	60n	650m	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B412	ML1
46	IM5623AMFE	256	4	SE	BTX	60n	650m	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B412	FL27
47	IM5623AMJE	256	4	SE	BTX	60n	439u%	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B412	ML396
48#	uPB403D	256	4	SE	BTX	60n	650m	.50	7.0	.80	2.0	16m	.45	2	7	PROM	B412	ML60d
49	IM5623CDE	256	4	SE	BTX	65n	650m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B82	ML1
50	S82S126F	256	4	SE	BTX	70n	625m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B198	ML127r
51	S82S129F	256	4	SE	BTX	70n	625m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B198	ML127r
52	IM5603AMDE	256	4	SE	BTX	80n	650m	0.0	5.0	.80	2.0	100uΔ	5.5	5	C	PROM	B412	ML1
53	IM5603AMFE	256	4	SE	BTX	80n	650m	0.0	5.0	.80	2.0	100uΔ	5.5	5	C	PROM	B412	FL27
54	IM5623MDE	256	4	SE	BTX	85n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	B82	ML1
55	IM5623MFE	256	4	SE	BTX	85n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	B82	FL27
56#	MSL8520A	256	4	SE	BTX	150n	550m	0.0	5.0	.80	2.0Δ	16m	.40	0	7	PROM	B282	ML98
57#	MSL8521A	256	4	SE	BTX	150n	550m	0.0	5.0	.80	2.0Δ	16m	.40	0	7	PROM	B282	ML98
58	HM1-6611D5	256	4	SE	MCG	550n	5.0m	0.0	5.0	.80	3.0Δ	1.0m	.40	0	7	PROM	B375	ML312a
59	ER1105	256	4	SE	MPN	2.0u	288m	12	12	3.0	10.5	3.4m	11.5	2	7	PROM	B235	ML216b
60	6210-1F	256	5	SC	BTD	100n	850m	0.0	5.0	.80	2.0Δ	15m	.50	0	7	ROM	PN16cq	FL49
61	6210-1J	256	5	SC	BTD	100n	850m	0.0	5.0	.80	2.0Δ	15m	.50	0	7	ROM	PN16cq	ML280
62	6210-1N	256	5	SC	BTD	100n	850m	0.0	5.0	.80	2.0Δ	15m	.50	0	7	ROM	PN16cq	ML281
63	5210-1F	256	5	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	10m	.50	5	C	ROM	PN16cq	FL49
64	5210-1J	256	5	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	10m	.50	5	C	ROM	PN16cq	ML280
65	5210-1N	256	5	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	10m	.50	5	C	ROM	PN16cq	ML281
66#	CDP1842CD	256	8	S	MNG	1.0u	20m	0.0	5.0	.05	4.95Δ	1.4m	0.4	4	8	EEPROM	A498	
67	N82S214F	256	8	SC	BTD	60n	650m	0.0	5.0	.85	2.0Δ	9.6m	.50	0	7	ROM	B199b	ML133
68	N82S214I	256	8	SC	BTD	60n	875m	0.0	5.0	.85	2.0Δ	9.6m	.50	0	7	ROM	B199b	ML150b
69	N82S214N	256	8	SC	BTD	60n	650m	0.0	5.0	.85	2.0Δ	9.6m	.50	0	7	ROM	B199b	ML135
70	6208-1J	256	8	SC	BTD	70n	775m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	ROM	PN20i	ML274
71	6208-1N	256	8	SC	BTD	70n	775m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	ROM	PN20i	ML275
72	6208-1J	256	8	SC	BTD	70n	775m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	ROM	PN20i	ML274
73	6208-1N	256	8	SC	BTD	70n	775m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	ROM	PN20i	ML275
74	5208-1J	256	8	SC	BTD	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	ROM	PN20i	ML274
75	5208-1N	256	8	SC	BTD	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	ROM	PN20i	ML275
76	5209-1J	256	8	SC	BTD	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	ROM	PN20i	ML274
77	5209-1N	256	8	SC	BTD	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	ROM	PN20i	ML275
78#	RC82S214I	256	8	SC	BTD	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	ROM	B199b	ML150b
79	S82S214F	256	8	SC	BTD	90n	650m	0.0	5.0	.80	2.0Δ	9.6						

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 OP MODE	4 STRUCTURE CODE	5 MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS		
		1 No. WORDS	2 BITS PER WORD					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT			LOGIC/BLOCK	OUTLINE	
																		TEMP. RANGE CODE
1	4735BDM	256	8	SC	MCX	152n†	15m†	0.0	10	3.0	7.0S	1.2m	.50	5	C	ROM	B273	ML133g
2	4735BFC	256	8	SC	MCX	152n†	15m†	0.0	10	3.0	7.0S	1.2m	.50	4	8	ROM	B273	FL47
3	4735BFM	256	8	SC	MCX	152n†	15m†	0.0	10	3.0	7.0S	1.2m	.50	5	C	ROM	B273	FL47
4	4735BPC	256	8	SC	MCX	152n†	15m†	0.0	10	3.0	7.0S	1.2m	.50	4	8	ROM	B273	ML216
5	3512-9-7C	256	8	SC	MNG	600n	1.0u	12	5.0	.80	4.0	2.4m	.40	0	7		B46	ML52
6#	uPD464C	256	8	SC	MNX	450n	810m	0.0	12	.70	2.4S	1.7m	.50	1	7		B220a	ML72c
7#	uPD464D	256	8	SC	MNX	450n	810m	0.0	12	.70	2.4S	1.7m	.50	1	7		B220a	ML366
8#	SFF70611KM#1	256	8	SC	MPA	700n	430m	12	5.0	.80	3.0	2.0m†	6.0	5	C		B119	ML95
9#	SFF70611KT#1	256	8	SC	MPA	700n	430m	12	5.0	.80	3.0	2.0m†	1.0	2	8		B119	ML95
10	RO5-1302	256	8	SC	MPN	1.5u∅		12	5.0	.80	3.5S	1.6m	.40	0	7		B233d	ML216b
11	RO6-2048/8	256	8	SC	MPN	1.5u∅		12	5.0	.80	3.5S	1.6m	.40	5	C		B233d	ML34e
12	RO7-2048/8	256	8	SC	MPN	1.5u∅		12	5.0	.80	3.5S	1.6m	.40	0	7		B233d	ML216b
13	RO1-2048#4	256#	8	SC	MPT	750n	120m†	24	0.0	-2.0	-2.4	3.0m		5	8		B49	ML47
14	MM5230J#1	256#	8#	SC	MPX	725n∅	480m∅	12	12	10*	4.0#	1.6m	.40	2	7	EPROM	B26	ML133a
15	MM5230N	256#	8#	SC	MPX	725n∅	480m∅	12	12	10*	4.0#	1.6m	.40	2	7	EPROM	B26	ML183
16	MM5230N#1	256#	8#	SC	MPX	725n∅	480m∅	12	12	10*	4.0#	1.6m	.40	2	7	EPROM	B26	ML183
17	UC7523#1	256#	8	SC	MPX	1.0u	420m†	12	12	10*	4.0#			2	7		PN24w	ML31b
18	3507-9-6G	256	8	SC	MPX	1.7u	800m∅	27	0.0	-2.0	-9.0			0	7		B45	ML51
19	RO1-2048S#1	256#	8	SC	MPX	2.0u	275m†	12	12	10*†	4.0	2.5m	2.4	0	7		B26	ML51
20	3512-9-6G	256	8	SC	MXX	500n†	575m†	12	5.0	.85	4.0			0	7		B46	ML51
21	UA2548#1	256	8	SC	MXX	900n	600m	20	0.0	.80†	2.7	1.6m	.40	5	C		B9a	ML31a
22	UA3548#1	256	8	SC	MXX	900n	600m	20	0.0	.80†	2.7	1.6m	.40	2	7		B9a	ML31a
23	53RA281J	256	8	SE	BTD	30n†	550m†	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B329	ML276
24	53RA281N	256	8	SE	BTD	30n†	550m†	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B329	ML277
25	53RA283J	256	8	SE	BTD	30n†	550m†	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B329	ML282
26	53RA283N	256	8	SE	BTD	30n†	550m†	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B329	ML283
27	53S280J	256	8	SE	BTD	30n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN20i	ML274
28	53S280N	256	8	SE	BTD	30n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN20i	ML275
29	53S281J	256	8	SE	BTD	30n†	525m†	0.0	5.0	.80	2.0S	16m	.50	5	C	PROM	PN20i	ML274
30	53S281N	256	8	SE	BTD	30n†	525m†	0.0	5.0	.80	2.0S	16m	.50	5	C	PROM	PN20i	ML275
31	63RA281J	256	8	SE	BTD	30n†	550m†	0.0	5.0	.80	2.0	20m	.50	0	7	PROM;Reg	B329	ML276
32	63RA281N	256	8	SE	BTD	30n†	550m†	0.0	5.0	.80	2.0	20m	.50	0	7	PROM;Reg	B329	ML277
33	63RA283J	256	8	SE	BTD	30n†	550m†	0.0	5.0	.80	2.0	20m	.50	0	7	PROM;Reg	B329	ML282
34	63RA283N	256	8	SE	BTD	30n†	550m†	0.0	5.0	.80	2.0	20m	.50	0	7	PROM;Reg	B329	ML283
35	63S280J	256	8	SE	BTD	30n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20i	ML274
36	63S280N	256	8	SE	BTD	30n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20i	ML275
37	63S281J	256	8	SE	BTD	30n†	525m†	0.0	5.0	.80	2.0S	16m	.45	0	7	PROM	PN20i	ML274
38	63S281N	256	8	SE	BTD	30n†	525m†	0.0	5.0	.80	2.0S	16m	.45	0	7	PROM	PN20i	ML275
39	53PS280J	256	8	SE	BTD	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN20i	ML274
40	53PS280N	256	8	SE	BTD	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN20i	ML275
41	53PS281J	256	8	SE	BTD	33n†	525m†	0.0	5.0	.80	2.0S	16m	.50	5	C	PROM;Pwr Sw	PN20i	ML274
42	53PS281N	256	8	SE	BTD	33n†	525m†	0.0	5.0	.80	2.0S	16m	.50	5	C	PROM;Pwr Sw	PN20i	ML275
43	63PS280J	256	8	SE	BTD	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN20i	ML274
44	63PS280N	256	8	SE	BTD	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN20i	ML275
45	63PS281J	256	8	SE	BTD	33n†	525m†	0.0	5.0	.80	2.0S	16m	.45	0	7	PROM;Pwr Sw	PN20i	ML274
46	63PS281N	256	8	SE	BTD	33n†	525m†	0.0	5.0	.80	2.0S	16m	.45	0	7	PROM;Pwr Sw	PN20i	ML275
47	53LS280J	256	8	SE	BTD	51n†	275m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20i	ML274
48	53LS280N	256	8	SE	BTD	51n†	275m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20i	ML275
49	53LS281J	256	8	SE	BTD	51n†	275m†	0.0	5.0	.80	2.0S	12m	.50	5	C	PROM	PN20i	ML274
50	53LS281N	256	8	SE	BTD	51n†	275m†	0.0	5.0	.80	2.0S	12m	.50	5	C	PROM	PN20i	ML275
51	63LS280J	256	8	SE	BTD	51n†	275m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20i	ML274
52	63LS280N	256	8	SE	BTD	51n†	275m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20i	ML275
53	63LS281J	256	8	SE	BTD	51n†	275m†	0.0	5.0	.80	2.0S	16m	.45	0	7	PROM	PN20i	ML274
54	63LS281N	256	8	SE	BTD	51n†	275m†	0.0	5.0	.80	2.0S	16m	.45	0	7	PROM	PN20i	ML275
55	N82S114I	256	8	SE	BTD	60n	875m	0.0	5.0	.85	2.0S	9.6m	.50	0	7	PROM	B199	ML150b
56	6308-1J	256	8	SE	BTD	70n	775m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN20m	ML274
57	6308-1N	256	8	SE	BTD	70n	775m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN20m	ML275
58	6309-1J	256	8	SE	BTD	70n	775m	0.0	5.0	.80	2.0S	16m	.50	0	7	PROM	PN20m	ML274
59	6309-1N	256	8	SE	BTD	70n	775m	0.0	5.0	.80	2.0S	16m	.50	0	7	PROM	PN20m	ML275
60	6335-1F	256	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ei	FL50
61	6335-1J	256	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ei	ML276
62	6335-1N	256	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ei	ML277
63	6336-1F	256	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0S	12m	.50	0	7	PROM	PN24ei	FL50
64	6336-1J	256	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0S	12m	.50	0	7	PROM	PN24ei	ML276
65	6336-1N	256	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0S	12m	.50	0	7	PROM	PN24ei	ML277
66	5308-1J	256	8	SE	BTD	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20m	ML274
67	5308-1N	256	8	SE	BTD	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20m	ML275
68	5309-1J	256	8	SE	BTD	80n	775m	0.0	5.0	.80	2.0S	12m	.50	5	C	PROM	PN20m	ML274
69	5309-1N	256	8	SE	BTD	80n	775m	0.0	5.0	.80	2.0S	12m	.50	5	C	PROM	PN20m	ML275
70	5335-1F	256	8	SE	BTD	80n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN24ei	FL50
71	5335-1J	256	8	SE	BTD	80n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN24ei	ML276
72	5335-1N	256	8	SE	BTD	80n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN24ei	ML277
73	5336-1F	256	8	SE	BTD	80n	850m	0.0	5.0	.80	2.0S	8.0m	.50	5	C	PROM	PN24ei	FL50
74	5336-1J	256	8	SE	BTD	80n	850m	0.0	5.0	.80	2.0S	8.0m	.50	5	C	PROM	PN24ei	ML276
75	5336-1N	256	8	SE	BTD	80n	850m	0.0	5.0	.80	2.0S	8.0m	.50	5	C	PROM	PN24ei	ML277
76#	RC82S114F	256	8	SE	BTD	90n	925m	0.0	5.0	.80	2.0S	9.6m	.50	5	C	PROM	B199	ML133
77#	RC82S114I	256	8	SE	BTD	90n	925m	0.0	5.0	.80	2.0S	9.6m	.50	5	C	PROM	B199	ML150b
78#	RC82S114N	256	8	SE	BTD	90n	925m	0.0	5.0	.80	2.0S	9.6m	.50	5	C	PROM	B199	ML135
79	S82S114F	256	8	SE	BTD	90n	925m	0.0	5.0	.80	2.0S							

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)NO.WDS(2)NO.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE NO.

LINE No.	TYPE No.	ORGANIZATION				MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT @ OUT		OPER. TEMP. RANGE	GENERAL DESCRIPTION	DRAWINGS			
		1 No. WORDS	2 BITS PER WORD	3 MODE CODE	4 STRUCTURE CODE			NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	(V)			-	+	LOGIC/ BLOCK	OUTLINE
1	UC685723K	256	12	SC	HXX	1.1u	600m	15	5.0	.60	3.0	3.0m	2.4	5	C	B9j	ML32		
2	UC75723K	256	12	SC	HXX	1.1u	600m	15	5.0	.60	3.0	3.0m	2.4	0	7	C	B9j	ML32	
3#	SFF70701KM	256	12	SC	MPA	1.2u	410m	12	5.0	.80	3.0	2.0m	1.0	5	C	B65	ML29		
4#	SFF70701KT	256	12	SC	MPA	1.2u	410m	12	5.0	.80	3.0	2.0m	1.0	2	8	C	B65	ML29	
5	UC68572	256	12	SC	MXX	1.1u	600m	15	5.0	.60	3.0	2.0u	0.0	5	C	PN28e	ML32b		
6	UC7572	256	12	SC	MXX	1.1u	600m	15	5.0	.60	3.0	2.0u	0.0	0	7	C	PN28e	ML32b	
7	UA2572D	256	12	SC	MXX	1.2u	640m	20	0.0	.80	2.7	1.6m	.40	5	C	B9b	ML32		
8	UA3572D	256	12	SC	MXX	1.2u	640m	20	0.0	.80	2.7	1.6m	.40	2	7	C	B9b	ML32	
9	UC685253K#2	512*	2	SC	MPX	900n	150m	5.0	5.0	.80	2.6	1.6m	.40	5	C	B9m	ML31a		
10	UC685254K#2	512*	2	SC	MPX	900n	150m	5.0	5.0	.80	2.6	1.6m	.40	5	C	B9m	FL3a		
11	UC75253K#2	512*	2	SC	MPX	900n	150m	5.0	5.0	.80	2.6	1.6m	.40	0	7	C	B9m	ML31a	
12	UC75254K#2	512*	2	SC	MPX	900n	150m	5.0	5.0	.80	2.6	1.6m	.40	0	7	C	B9m	ML31a	
13	UA2525D#3	512*	2	SC	MXX	900n	360m	10	0.0	.80	2.7	1.6m	.40	5	C	B9	ML31a		
14	UA3525D#3	512*	2	SC	MXX	900n	360m	10	0.0	.80	2.7	1.6m	.40	2	7	C	B9	ML31a	
15	UA3525F#3	512*	2	SC	MXX	900n	360m	10	0.0	.80	2.7	1.6m	.40	2	7	C	B9	FL3a	
16	P3302	512	4		BDT	70n	650m	0.0	5.0			15m		0	7	C	PN16bx	ML4j	
17	P3322	512	4		BDT	70n	650m	0.0	5.0			15m		0	7	C	PN16bx	ML4j	
18	P3302-4	512	4		BDT	90n	650m	0.0	5.0			15m		0	7	C	PN16bx	ML4j	
19	P3322-4	512	4		BDT	90n	650m	0.0	5.0			15m		0	7	C	PN16bx	ML4j	
20#	RC82S231F	512	4		BTX	70n	650m	0.0	5.0	.80	2.0	16m	.50	5	C	C	B197	ML127m	
21#	RC82S240F	512	4		BTX	90n	170u	0.0	5.0	.80	2.0	9.6m	.50	5	C	C	B413	ML187	
22	93431DC	512	4	SC	BDT	50n	650m	0.0	5.0	.80	2.0	16m	.45	0	7	C	B143	ML98a	
23	93431FC	512	4	SC	BDT	50n	650m	0.0	5.0	.80	2.0	16m	.45	0	7	C	B143	FL14	
24	93431PC	512	4	SC	BDT	50n	650m	0.0	5.0	.80	2.0	16m	.45	0	7	C	B143	ML170	
25	93441DC	512	4	SC	BDT	50n	650m	0.0	5.0	.80	2.0	16m	.45	0	7	C	B143	ML98a	
26	93441FC	512	4	SC	BDT	50n	650m	0.0	5.0	.80	2.0	16m	.45	0	7	C	B143	FL14	
27	93441PC	512	4	SC	BDT	50n	650m	0.0	5.0	.80	2.0	16m	.45	0	7	C	B143	ML170	
28	N82S230N	512	4	SC	BDT	50n	700m	0.0	5.0	.85	2.0	16m	.45	0	7	C	ROM	B197	ML132
29	N82S231N	512	4	SC	BDT	50n	700m	0.0	5.0	.85	2.0	16m	.45	0	7	C	ROM	B197	ML132
30	6205-1F	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.50	0	7	C	ROM	PN16bt	FL49
31	6205-1J	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.50	0	7	C	ROM	PN16bt	ML280
32	6205-1N	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.50	0	7	C	ROM	PN16bt	ML281
33	6206-1F	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.50	0	7	C	ROM	PN16bt	FL49
34	6206-1J	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.50	0	7	C	ROM	PN16bt	ML280
35	6206-1N	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.50	0	7	C	ROM	PN16bt	ML281
36	93431DM	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.45	5	C	C	B143	ML98a	
37	93431FM	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.45	5	C	C	B143	FL14	
38	93441DM	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.45	5	C	C	B143	ML98a	
39	93441FM	512	4	SC	BDT	60n	650m	0.0	5.0	.80	2.0	16m	.45	5	C	C	B143	FL14	
40	D3302A4	512	4	SC	BDT	70n	700m	0.0	5.0	.85	2.0	15m	.45	6	C	C	PN16bx	ML157c	
41	D3322A4	512	4	SC	BDT	70n	700m	0.0	5.0	.85	2.0	15m	.45	6	C	C	PN16bx	ML157c	
42	5205-1F	512	4	SC	BDT	75n	650m	0.0	5.0	.80	2.0	12m	.50	5	C	C	ROM	PN16bt	FL49
43	5205-1J	512	4	SC	BDT	75n	650m	0.0	5.0	.80	2.0	12m	.50	5	C	C	ROM	PN16bt	ML280
44	5205-1N	512	4	SC	BDT	75n	650m	0.0	5.0	.80	2.0	12m	.50	5	C	C	ROM	PN16bt	ML281
45	5206-1F	512	4	SC	BDT	75n	650m	0.0	5.0	.80	2.0	12m	.50	5	C	C	ROM	PN16bt	FL49
46	5206-1J	512	4	SC	BDT	75n	650m	0.0	5.0	.80	2.0	12m	.50	5	C	C	ROM	PN16bt	ML280
47	5206-1N	512	4	SC	BDT	75n	650m	0.0	5.0	.80	2.0	12m	.50	5	C	C	ROM	PN16bt	ML281
48	6242-1J	512	4	SC	BDT	75n	140u	0.0	5.0	.80	2.0	10m	.50	0	7	C		B130	ML239
49	6243-1J	512	4	SC	BDT	75n	140u	0.0	5.0	.80	2.0	10m	.50	0	7	C		B130	ML239
50	5242-1J	512	4	SC	BDT	90n	140u	0.0	5.0	.80	2.0	8.0	.50	5	C	C	B130	ML239	
51	5243-1J	512	4	SC	BDT	90n	140u	0.0	5.0	.80	2.0	8.0	.50	5	C	C	B130	ML239	
52	D3302A4	512	4	SC	BDT	90n	700m	0.0	5.0	.85	2.0	15m	.45	6	C	C	PN16bx	ML157c	
53	D3322A4	512	4	SC	BDT	90n	700m	0.0	5.0	.85	2.0	15m	.45	6	C	C	PN16bx	ML157c	
54	N82S230F	512	4	SC	BTX	50n	675m	0.0	5.0	.85	2.0	16m	.45	0	7	C	B197	ML127m	
55	N82S231F	512	4	SC	BTX	50n	675m	0.0	5.0	.85	2.0	16m	.45	0	7	C	B197	ML127m	
56#	RC82S230F	512	4	SC	BTX	70n	650m	0.0	5.0	.80	2.0	16m	.50	5	C	C	B197	ML127m	
57	S82S230F	512	4	SC	BTX	70n	650m	0.0	5.0	.80	2.0	16m	.50	5	C	C	B197	ML127m	
58	S82S231F	512	4	SC	BTX	70n	650m	0.0	5.0	.80	2.0	16m	.50	5	C	C	B197	ML127m	
59#	uPD463D	512	4	SC	MNG	900n	362m	5.0	12	.65	3.0	1.7m	.50	1	7	C	B419	ML72g	
60#	SFF70611KM#2	512	4	SC	MPA	700n	430m	12	5.0	.80	3.0	2.0m	6.0	5	C		B119	ML95	
61#	SFF70611KT#2	512	4	SC	MPA	700n	430m	12	5.0	.80	3.0	2.0m	1.0	2	8	C		B119	ML95
62	RO6-2048/4	512	4	SC	MPN	1.5u		12	5.0	.80	3.5	1.6m	.40	5	C	C	B233c	ML34e	
63	RO7-2048/4	512	4	SC	MPN	1.5u		12	5.0	.80	3.5	1.6m	.40	0	7	C	B233c	ML216b	
64	RO1-2048#3	512*	4	SC	MPT	750n	130m	24	0.0	-2.0	-2.4	3.0m		5	8	C	B49	ML4	
65	UC7523#2	512*	4	SC	MPX	1.0u	420m	12	12	10*	4.0#			2	7	C	PN24w	ML31b	
66	3580-9-6G	512	4	SC	MPX	1.7u	800m	27	0.0	-2.0	-9.0			0	7	C	B45a	ML51	
67	RO1-2048S#2	512	4	SC	MPX	2.0u	275m	12	12	10*	4.0	2.5m	2.4	0	7	C	B26	ML51	
68	UA2548#2	512	4	SC	MXX	900n	600m	20	0.0	.80	2.7	1.6m	.40	5	C	C	B9a	ML31a	
69	UA3548#2	512	4	SC	MXX	900n	600m	20	0.0	.80	2.7	1.6m	.40	2	7	C	B9a	ML31a	
70	3584-9-6G	512	4	SC	MXX	2.0u	500m	24	0.0	-9.0	-2.0			0	7	C	B47	ML51	
71	MCM7620LDC	512	4	SE		70n	325m	0.0	5.0	.80	2.0	16m	.45	0	7	C	CS PROM	PN16bx	ML157a
72	MCM7621LDC	512	4	SE		70n	325m	0.0	5.0	.80	2.0	16m	.45	0	7	C	CS PROM	PN16bx	ML157a
73	MCM7620LDM	512	4	SE		85n	325m	0.0	5.0	.80	2.0	16m	.45	5	C	C	CS PROM	PN16bx	ML157a
74	MCM7621LDM	512	4	SE		85n	325m	0.0	5.0	.80	2.0	16m	.45	5	C	C	CS PROM	PN16bx	ML157a
75	IM5604CDE	512	4	SE	BDX	70n	244u	0.0	5.0	.80	2.0	40u	5.5	0	7	C		B462	ML1a
76	IM5604MDE	512	4	SE	BDX	70n	275u	0.0	5.0	.80	2.0	16m	.45	5	C	C	B203	ML1a	
77	IM5604MFE	512	4	SE	BDX	70n	275u	0.0	5.0	.80	2.0	16m	.45	5	C	C	B203	FL14e	
78	IM5624CDE	512	4	SE	BDX	70n	275u	0.0	5.0	.80	2.0	16m	.45	0	7	C		B204	ML1a
79	IM5624MDE	512	4	SE	BDX	70n	244u	0.0	5.0	.80	2.0	100u	5.5	5	C	C	PROM	B462	ML1a
80	IM5624MFE	512	4	SE	BDX	70n	275u	0.0	5.0	.80	2.0	16m	.45	5	C				

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 TOP 4	5	MAX OPER. POWER (W)	RATED POWER SUP. SPAN	INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS								
		1	2					MODE	6	7	8			9	10	11	12	13	14	15	16	17
1	53S240J	512	4	SE	BTD	55n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN16bt	ML280				
2	53S240N	512	4	SE	BTD	55n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN16bt	ML281				
3	53S241F	512	4	SE	BTD	55n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN16bt	FL49				
4	53S241J	512	4	SE	BTD	55n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN16bt	ML280				
5	53S241N	512	4	SE	BTD	55n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN16bt	ML281				
6	DM74S570J	512	4	SE	BTD	55n	650m	0.0	5.0	.80	.45	16m	.50	0	7	PROM	B129	ML280				
7	DM74S570N	512	4	SE	BTD	55n	650m	0.0	5.0	.80	.45	16m	.50	0	7	PROM	B129	ML280				
8	DM74S571J	512	4	SE	BTD	55n	650m	0.0	5.0	.80	.45	16m	.50	0	7	PROM	B129	ML280				
9	DM74S571N	512	4	SE	BTD	55n	650m	0.0	5.0	.80	.45	16m	.50	0	7	PROM	B129	ML280				
10#	TM622	512	4	SE	BTD	55n	650m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B143	ML170				
11#	TM624	512	4	SE	BTD	55n	875m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161	ML216				
12	63LS240F	512	4	SE	BTD	60n	350m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN16bt	FL49				
13	63LS240J	512	4	SE	BTD	60n	350m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN16bt	ML280				
14	63LS240N	512	4	SE	BTD	60n	350m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN16bt	ML281				
15	63LS241F	512	4	SE	BTD	60n	350m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN16bt	FL49				
16	63LS241J	512	4	SE	BTD	60n	350m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN16bt	ML280				
17	63LS241N	512	4	SE	BTD	60n	350m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN16bt	ML281				
18	6305-1F	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN16cr	FL49				
19	6305-1J	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN16cr	ML280				
20	6305-1N	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN16cr	ML281				
21	6306-1F	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN16cr	FL49				
22	6306-1J	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN16cr	ML280				
23	6306-1N	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN16cr	ML281				
24	93436DM	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	Field Program	B143	ML1k				
25	93436FM	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	Field Program	B143	FL14				
26	93446DM	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	Field Program	B143	ML1k				
27	93446FM	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	Field Program	B143	FL14				
28	AM27S12DM	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	B445	ML312a				
29	AM27S12FM	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	B445	FL33b				
30	AM27S13DM	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	B445	ML312a				
31	AM27S13FM	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	B445	FL33b				
32	HM9-7620A2	512	4	SE	BTD	60n	650m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	B311	FL54				
33	DM54S570J	512	4	SE	BTD	65n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B129	ML127f				
34	DM54S571J	512	4	SE	BTD	65n	650m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B129	ML280				
35	53LS240F	512	4	SE	BTD	70n	350m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bt	FL49				
36	53LS240J	512	4	SE	BTD	70n	350m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bt	ML280				
37	53LS240N	512	4	SE	BTD	70n	350m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bt	ML281				
38	53LS241F	512	4	SE	BTD	70n	350m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bt	FL49				
39	53LS241J	512	4	SE	BTD	70n	350m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bt	ML280				
40	53LS241N	512	4	SE	BTD	70n	350m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16bt	ML281				
41	MCM7620DC	512	4	SE	BTD	70n	500m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN16bt	ML372				
42	MCM7621DC	512	4	SE	BTD	70n	500m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN16bt	ML372				
43	5305-1F	512	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16cr	FL49				
44	5305-1J	512	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16cr	ML280				
45	5305-1N	512	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16cr	ML281				
46	5306-1F	512	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16cr	FL49				
47	5306-1J	512	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16cr	ML280				
48	5306-1N	512	4	SE	BTD	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN16cr	ML281				
49	JANM38510/20401BEA	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
50	JANM38510/20401BEB	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
51	JANM38510/20401BEC	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
52	JANM38510/20401BFC	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	FL31				
53	JANM38510/20401CEA	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
54	JANM38510/20401CEB	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
55	JANM38510/20401CEC	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
56	JANM38510/20401CFC	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	FL31				
57	JANM38510/20402BEA	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
58	JANM38510/20402BEB	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
59	JANM38510/20402BEC	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
60	JANM38510/20402BFC	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	FL31				
61	JANM38510/20402CEA	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
62	JANM38510/20402CEB	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
63	JANM38510/20402CEC	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	ML143				
64	JANM38510/20402CFC	512	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	B359	FL31				
65	MCM7620DM	512	4	SE	BTD	85n	500m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	PN16bt	ML372				
66	MCM7621DM	512	4	SE	BTD	85n	500m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	PN16bt	ML372				
67	N82S130F	512	4	SE	BTX	50n	700m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B197	ML127r				
68	N82S130N	512	4	SE	BTX	50n	700m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B197	ML132				
69	N82S131F	512	4	SE	BTX	50n	700m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B197	ML127r				
70	IM5604CJE	512	4	SE	BTX	70n	244u	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B462	ML396				
71	IM5604MJE	512	4	SE	BTX	70n	244u	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B462	ML396				
72	IM5624CJE	512	4	SE	BTX	70n	244u	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B462	ML396				
73	IM5624MJE	512	4	SE	BTX	70n	244u	0.0	5.0	.80	2.0Δ	100uΔ	5.5	5	C	PROM	B462	ML396				
74	S82S130F	512	4	SE	BTX	70n	700m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B197	ML127r				
75	S82S131F	512	4	SE	BTX	70n	700m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B197	ML127r				
76	5305-1D	512	4	SE	BTX	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PR Fld Prog	B129	ML158				
77	5306-1D	512	4	SE	BTX	75n	650m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PR Fld Prog	B129	ML158				
78	HRM2048#3	512	4	SS	TAX	500n	640m	0.0	5.0	2.0	.80	0	7	PR Non-Vol RMM	B91	ML113						

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION				MAX OPER. ACCESS TIME (s)	MAX POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS			
		1 No. WORDS	2 BITS PER WORD	3 MODE CODE	4 STRUCTURE CODE			NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)			-	+	LOGIC/ BLOCK	OUTLINE
1#	HC82S241N	512	8	BTX	90n	925m	0.0	5.0	.80	2.0 _s	9.6m	.40	5	C	ROM	B413	ML135		
2#	MSM575A	512	8	DC	4.5u	10m	0.0	5.0	.80	3.6	1.6m	.40	2	7	ROM	B205	ML258		
3#	FDR131Z#1	512 _s	8	MPX	1.5u	90m	14	0.0	-9.0	-2.0			0	7	ROM	B36	ML41		
4	AM9214DC	512	8	S MNG	500n	1.0	0.0	5.0	.80	2.0 _s	2.4m	.40	0	7	ROM	B443	ML207p		
5	AM9214DM	512	8	S MNG	500n	1.0	0.0	5.0	.80	2.0 _s	2.4m	.40	5	C	ROM	B443	ML207p		
6	AM35141DC	512	8	S MNG	700n	1.0	0.0	5.0	.55	2.3 _s	2.4m	.40	0	7	ROM	B443	ML207p		
7	AM35142DC	512	8	S MNG	1.0u	1.0	0.0	5.0	.55	2.3 _s	2.4m	.40	0	7	ROM	B443	ML207p		
8	93432DC	512	8	SC	55n	875m	0.0	5.0	.80	2.0	16m	.45	0	7	ROM	B161	ML193		
9	93432FC	512	8	SC	55n	875m	0.0	5.0	.80	2.0 _Δ	16m	.45	0	7	ROM	B161	FL3c		
10	93432PC	512	8	SC	55n	875m	0.0	5.0	.80	2.0	16m	.45	0	7	ROM	B161	ML216		
11	93442DC	512	8	SC	55n	875m	0.0	5.0	.80	2.0 _s	16m	.45	0	7	ROM	B161	ML193		
12	93442FC	512	8	SC	55n	875m	0.0	5.0	.80	2.0 _s	16m	.45	0	7	ROM	B161	FL3c		
13	93442PC	512	8	SC	55n	875m	0.0	5.0	.80	2.0 _s	16m	.45	0	7	ROM	B161	ML216		
14	N82S215F	512	8	SC	60n	650m	0.0	5.0	.85	2.0 _s	9.6m	.50	0	7	ROM	B199c	ML133		
15	N82S215I	512	8	SC	60n	875m	0.0	5.0	.85	2.0 _s	9.6m	.50	0	7	ROM	B199c	ML150b		
16	N82S215N	512	8	SC	60n	650m	0.0	5.0	.85	2.0 _s	9.6m	.50	0	7	ROM	B199c	ML135		
17	6248-1J	512	8	SC	70n	775m	0.0	5.0	.80	2.0 _Δ	16m	.50	0	7	ROM	PN20n	ML274		
18	6248-1N	512	8	SC	70n	775m	0.0	5.0	.80	2.0 _Δ	16m	.50	0	7	ROM	PN20n	ML275		
19	6249-1J	512	8	SC	70n	775m	0.0	5.0	.80	2.0 _s	16m	.50	0	7	ROM	PN20n	ML274		
20	6249-1N	512	8	SC	70n	775m	0.0	5.0	.80	2.0 _s	16m	.50	0	7	ROM	PN20n	ML275		
21	93432DM	512	8	SC	70n	875m	0.0	5.0	.80	2.0	16m	.45	5	C	ROM	B161	ML193		
22	93432FM	512	8	SC	70n	875m	0.0	5.0	.80	2.0	16m	.45	5	C	ROM	B161	FL3c		
23	93442DM	512	8	SC	70n	875m	0.0	5.0	.80	2.0 _s	16m	.45	5	C	ROM	B161	ML193		
24	93442FM	512	8	SC	70n	875m	0.0	5.0	.80	2.0 _s	16m	.45	5	C	ROM	B161	FL3c		
25	C3324A	512	8	SC	70n	950m	0.0	5.0	.85	2.0 _s	15m	.45	0	7	ROM	B165	ML34c		
26	D3324A	512	8	SC	70n	950m	0.0	5.0	.85	2.0 _s	15m	.45	0	7	ROM	B165	ML118d		
27	6241-1J	512	8	SC	75n _∅	140u%	0.0	5.0	.80	2.0 _s	10m	.50	0	7	ROM	PN24ea	ML276		
28	5248-1J	512	8	SC	80n	775m	0.0	5.0	.80	2.0 _Δ	12m	.50	5	C	ROM	PN20n	ML274		
29	5248-1N	512	8	SC	80n	775m	0.0	5.0	.80	2.0 _Δ	12m	.50	5	C	ROM	PN20n	ML275		
30	5249-1J	512	8	SC	80n	775m	0.0	5.0	.80	2.0 _s	12m	.50	5	C	ROM	PN20n	ML274		
31	5249-1N	512	8	SC	80n	775m	0.0	5.0	.80	2.0 _s	12m	.50	5	C	ROM	PN20n	ML275		
32	5241-1J	512	8	SC	90n _∅	140u%	0.0	5.0	.80	2.0 _s	8.0	.50	5	C	ROM	PN24ea	ML276		
33	C3324A4	512	8	SC	90n	950m	0.0	5.0	.85	2.0 _s	15m	.45	0	7	ROM	B165	ML34c		
34	D3324A4	512	8	SC	90n	950m	0.0	5.0	.85	2.0 _s	15m	.45	0	7	ROM	B165	ML118d		
35#	RC82S215I	512	8	SC	90n	925m	0.0	5.0	.80	2.0 _s	9.6m	.50	5	C	ROM	B199c	ML133		
36	S82S215F	512	8	SC	90n	850m	0.0	5.0	.80	2.0 _s	9.6m	.50	5	C	ROM	B199c	ML150b		
37	S82S215I	512	8	SC	90n	925m	0.0	5.0	.80	2.0 _s	9.6m	.50	5	C	ROM	B199c	ML150b		
38	6240-1F	512	8	SC	100n	850m	0.0	5.0	.80	2.0 _Δ	10m	.50	0	7	ROM	PN24ea	FL50		
39	6240-1J	512	8	SC	100n	140u%	0.0	5.0	.80	2.0 _Δ	10m	.50	0	7	ROM	PN24ea	ML276		
40	6240-1N	512	8	SC	100n	850m	0.0	5.0	.80	2.0 _Δ	10m	.50	0	7	ROM	PN24ea	ML277		
41	6241-1F	512	8	SC	100n	850m	0.0	5.0	.80	2.0 _s	10m	.50	0	7	ROM	PN24ea	FL50		
42	6241-1N	512	8	SC	100n	850m	0.0	5.0	.80	2.0 _s	10m	.50	0	7	ROM	PN24ea	ML277		
43	5240-1F	512	8	SC	175n	850m	0.0	5.0	.80	2.0 _Δ	8.0m	.50	5	C	ROM	PN24ea	FL50		
44	5240-1J	512	8	SC	175n	140u%	0.0	5.0	.80	2.0 _Δ	8.0m	.50	5	C	ROM	PN24ea	ML276		
45	5240-1N	512	8	SC	175n	850m	0.0	5.0	.80	2.0 _Δ	8.0m	.50	5	C	ROM	PN24ea	ML277		
46	5241-1F	512	8	SC	175n	850m	0.0	5.0	.80	2.0 _s	8.0m	.50	5	C	ROM	PN24ea	FL50		
47	5241-1N	512	8	SC	175n	850m	0.0	5.0	.80	2.0 _s	8.0m	.50	5	C	ROM	PN24ea	ML277		
48	N82S240F	512	8	SC	60n	170u%	0.0	5.0	.85	2.0 _Δ	9.6m	.45	0	7	ROM	B413	ML187		
49	N82S240N	512	8	SC	60n	870m	0.0	5.0	.85	2.0 _Δ	9.6m	.45	0	7	ROM	B413	ML135		
50	N82S241F	512	8	SC	60n	170u%	0.0	5.0	.85	2.0 _s	9.6m	.45	0	7	ROM	B413	ML187		
51	N82S241N	512	8	SC	60n	875m	0.0	5.0	.85	2.0 _s	9.6m	.45	0	7	ROM	B413	ML135		
52	N8205Y	512	8	SC	75n	850m	0.0	5.0	.85*	2.0 _s	9.6m	.50	0	7	ROM	B32	ML47e		
53	S82S240F	512	8	SC	90n	170u%	0.0	5.0	.80	2.0 _Δ	9.6m	.50	5	C	ROM	B413	ML187		
54	S82S241F	512	8	SC	90n	170u%	0.0	5.0	.80	2.0 _s	9.6m	.50	5	C	ROM	B413	ML187		
55	SCP1831	512	8	SC	400n	5.0m	0.0	10	.01%	9.9 _s	2.5	.50	5	C	PR	B354	ML		
56	SCP1832	512	8	SC	400n	60m	0.0	10	.01%	9.9			5	C	PR	B459	ML		
57	SCP1831L	512	8	SC	850n	500u	0.0	5.0	.01%	4.99			5	C	PR	B354	ML		
58	SCP1832L	512	8	SC	850n	15m	0.0	5.0	.01%	4.9	2.8	.50	5	C	PR	B459	ML		
59	CDP1831CD	512	8	SC	300n	5.5k _∅	0.5	7.0#	1.5	3.5	.80	.40	4	8	PR	A498	MO015AC		
60	CDP1831CE	512	8	SC	300n	5.5k _∅	0.5	7.0#	1.5	3.5	.80	.40	4	8	PR	A498	MO015AA		
61	CDP1831D	512	8	SC	300n	1.1k _∅	0.5	11#	1.5	3.5	.80	.40	4	8	PR	A498	MO015AC		
62	CDP1831E	512	8	SC	300n	1.1k _∅	0.5	11#	1.5	3.5	.80	.40	4	8	PR	A498	MO015AA		
63	CDP1832CD	512	8	SC	400n	5.5k _∅	0.5	7.0#	1.5	3.5	.80	.40	4	8	PR	A498	MO015AC		
64	CDP1832CE	512	8	SC	400n	5.5k _∅	0.5	7.0#	1.5	3.5	.80	.40	4	8	PR	A498	MO015AA		
65	CDP1832D	512	8	SC	400n	1.1k _∅	0.5	11#	1.5	3.5	.80	.40	4	8	PR	A498	MO015AC		
66	CDP1832E	512	8	SC	400n	1.1k _∅	0.5	11#	1.5	3.5	.80	.40	4	8	PR	A498	MO015AA		
67	SCP1831C	512	8	SC	400n	5.0m	0.0	10	3.0	7.0	3.6m	.10	5	C	ROM	B354	ML		
68	SCP1831E	512	8	SC	400n	5.0m	0.0	10	3.0	7.0	3.6m	.10	4	8	ROM	B354	ML39b		
69	SCP1832C	512	8	SC	400n	5.0m	0.0	10	3.0	7.0	3.6m	.10	5	C	ROM	B355	ML		
70	SCP1832E	512	8	SC	400n	5.0m	0.0	10	3.0	7.0	3.6m	.10	4	8	ROM	B355	ML39b		
71	SCP1831LC	512	8	SC	850n	500u	0.0	5.0	1.5	3.5	2.2m	.50	5	C	ROM	B354	ML		
72	SCP1831LE	512	8	SC	850n	500u	0.0	5.0	1.5	3.5	2.2m	.50	4	8	ROM	B354	ML39b		
73	SCP1832LC	512	8	SC	850n	500u	0.0	5.0	1.5	3.5	2.2m	.50	5	C	ROM	B355	ML		
74	SCP1832LE	512	8	SC	850n	500u	0.0	5.0	1.5	3.5	2.2m	.50	4	8	ROM	B355	ML39b		
75#	MSM575	512	8	SC	1.5u _∅	2.5m _∅	0.0	5.0	.80	3.6	1.6m	.40	2	7	ROM	B205	ML118h		
76	RO3-4096	512	8	SC	500n	225m	0.0	5.0	.85	2.2 _s	16m	.45	0	7	ROM	B181a	ML242		
77#	SFF70612KM#1	512	8	SC	MPA	7.0u	460m _∅	12	5.0	.80	3.0	2.0m	1.0	5	C		B96	ML95	
78#	SFF70612KT#1	512	8	SC	MPG	7.0u	500m	12	5.0	.55	1.25	2.4m	.40	0	7		B96	ML103	
79	3514-91-7R	512	8	SC	MPG	1.0u	500m	12	5.0	.55	1.25	2.4m	.40	0	7		B90	ML103	
80	3514-92-7R	512	8	SC	MPG	1.0u	500m	12	5.0	.55	1.25	2.4m	.40	0	7		B90	ML103	
81	MM4214J	512	8	SC	MPX	1.0u _∅	629m												

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/W(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		MODE	OP	STRUCTURE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT @ OUT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS		
		No. WORDS	PER WORD						PROG. CODE	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)			(V)	LOGIC/BLOCK	OUTLINE
1	63S483F	512	8	SE	BTD	30nt		0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN24ea	FL50	
2	63S483J	512	8	SE	BTD	30nt		0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN24ea	ML276	
3	63S483N	512	8	SE	BTD	30nt		0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN24ea	ML277	
4	53PS480J	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN20n	ML274	
5	53PS480N	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN20n	ML275	
6	53PS481J	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.50	5	C	PROM;Pwr Sw	PN20n	ML274	
7	53PS481N	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.50	5	C	PROM;Pwr Sw	PN20n	ML275	
8	53PS482F	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN24ea	FL50	
9	53PS482J	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN24ea	ML276	
10	53PS482N	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN24ea	ML277	
11	53PS483F	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.50	5	C	PROM;Pwr Sw	PN24ea	FL50	
12	53PS483J	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.50	5	C	PROM;Pwr Sw	PN24ea	ML276	
13	53PS483N	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.50	5	C	PROM;Pwr Sw	PN24ea	ML277	
14	63PS480J	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN20n	ML274	
15	63PS480N	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN20n	ML275	
16	63PS481J	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN20n	ML274	
17	63PS481N	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN20n	ML275	
18	63PS482F	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ea	FL50	
19	63PS482J	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ea	ML276	
20	63PS482N	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ea	ML277	
21	63PS483F	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN24ea	FL50	
22	63PS483J	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN24ea	ML276	
23	63PS483N	512	8	SE	BTD	36nt	525mf	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN24ea	ML277	
24	MCM7640L	512	8	SE	BTD	40nt		0.0	5.0							Open Coll Tri State	PN24an	ML319	
25	MCM7640P	512	8	SE	BTD	40nt		0.0	5.0							Open Coll Tri State	PN24an	ML319	
26	MCM7641L	512	8	SE	BTD	40nt		0.0	5.0							Open Coll Tri State	PN24an	ML319	
27	MCM7641P	512	8	SE	BTD	40nt		0.0	5.0							Open Coll Tri State	B3256	ML319	
28	N82S146F	512	8	SE	BTD	45n	775m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B353	ML285	
29	N82S147F	512	8	SE	BTD	45n	775m	0.0	5.0	.85	2.0s	9.6m	.45	0	7	PROM	B353	ML285	
30	AM27S26DC	512	8	SE	BTD	50n*∅	925m	0.0	5.0	.80	2.0Δ	16m	.38	0	7	PROM	B448	ML162e	
31	AM27S26DM	512	8	SE	BTD	50n*∅	925m	0.0	5.0	.80	2.0Δ	16m	.38	5	C	PROM	B448	ML162e	
32	AM27S27DC	512	8	SE	BTD	50n*∅	925m	0.0	5.0	.80	2.0s	16m	.38	0	7	PROM	B448	ML162e	
33	AM27S27DM	512	8	SE	BTD	50n*∅	925m	0.0	5.0	.80	2.0s	16m	.38	5	C	PROM	B448	ML162e	
34	HM1-7640AR5	512	8	SE	BTD	50n	900m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM,Latched	B388b	ML310	
35	HM3-7640AR5	512	8	SE	BTD	50n	900m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM,Latched	B388b	ML311	
36	HM3-7641AR5	512	8	SE	BTD	50n	900m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM,Latched	B388b	ML311	
37	HM9-7641AR5	512	8	SE	BTD	50n	900m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM,Latched	B388b	FL55	
38	53LS480J	512	8	SE	BTD	51nt	275mf	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20n	ML274	
39	53LS480N	512	8	SE	BTD	51nt	275mf	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20n	ML275	
40	53LS481J	512	8	SE	BTD	51nt	275mf	0.0	5.0	.80	2.0s	12m	.50	5	C	PROM	PN20n	ML274	
41	53LS481N	512	8	SE	BTD	51nt	275mf	0.0	5.0	.80	2.0s	12m	.50	5	C	PROM	PN20n	ML275	
42	53LS482F	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ea	FL50	
43	53LS482J	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ea	ML276	
44	53LS482N	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ea	ML277	
45	53LS483F	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0s	12m	.50	5	C	PROM	PN24ea	FL50	
46	53LS483J	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0s	12m	.50	5	C	PROM	PN24ea	ML276	
47	53LS483N	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0s	12m	.50	5	C	PROM	PN24ea	ML277	
48	63LS480J	512	8	SE	BTD	51nt	275mf	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20n	ML274	
49	63LS480N	512	8	SE	BTD	51nt	275mf	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20n	ML275	
50	63LS481J	512	8	SE	BTD	51nt	275mf	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN20n	ML274	
51	63LS481N	512	8	SE	BTD	51nt	275mf	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN20n	ML275	
52	63LS482F	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ea	FL50	
53	63LS482J	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ea	ML276	
54	63LS482N	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ea	ML277	
55	63LS483F	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN24ea	FL50	
56	63LS483J	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN24ea	ML276	
57	63LS483N	512	8	SE	BTD	51nt		0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN24ea	ML277	
58	93438DC	512	8	SE	BTD	55n	875m	0.0	5.0	.80	2.0	16m	.45	0	7	Field Program	B161	ML193	
59	93438FC	512	8	SE	BTD	55n	875m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161	FL3c	
60	93438PC	512	8	SE	BTD	55n	875m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161	ML216	
61	93448DC	512	8	SE	BTD	55n	875m	0.0	5.0	.80	2.0s	16m	.45	0	7	Field Program	B161	ML193	
62	93448FC	512	8	SE	BTD	55n	875m	0.0	5.0	.80	2.0s	16m	.45	0	7	Field Program	B161	FL3c	
63	93448PC	512	8	SE	BTD	55n	875m	0.0	5.0	.80	2.0s	16m	.45	0	7	Field Program	B161	ML216	
64	AM27S15DC	512	8	SE	BTD	60n∅	775m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B447	ML239	
65	DM74S472J	512	8	SE	BTD	60n	775m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B366	ML384	
66	DM74S472N	512	8	SE	BTD	60n	775m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B366	ML253	
67	DM74S473J	512	8	SE	BTD	60n	775m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B366	ML384	
68	DM74S473N	512	8	SE	BTD	60n	775m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B366	ML253	
69	N82S115F	512	8	SE	BTD	60n	165u%t	0.0	5.0	.85	2.0s	9.6m	.45	0	7	PROM	B199a	ML133	
70	N82S115I	512	8	SE	BTD	60n	875m	0.0	5.0	.85	2.0s	9.6m	.45	0	7	PROM	B199a	ML150b	
71	N82S115N	512	8	SE	BTD	60n	875m	0.0	5.0	.85	2.0s	9.6m	.45	0	7	PROM	B199a	ML135	
72	DM74S474J	512	8	SE	BTD	65n	850m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B161	ML200	
73	DM74S474N	512	8	SE	BTD	65n	850m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B161	ML72f	
74	DM74S475J	512	8	SE	BTD	65n	850m	0.0	5.0	.80	2.0	16m	.45	0	7	PROM	B161	ML200	
75	DM74S475N	512	8	SE	BTD	65n	850m	0.0	5.0	.80	2.0	16m	.45	0	7	PROM	B161	ML72f	
76	6340-1F	512	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN24eb	FL50	
77	6340-1J	512	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN24eb	ML276	
78	6340-1N	512	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN24eb	ML277	
79	6341-1F	512	8	SE	BTD	70n	850m	0.0	5.0	.80	2.0s	16m	.50	0	7	PROM	PN24eb	FL50	
80	6341-1J	512	8	SE	BTD	70n	850m	0.0	5.0	.80									

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		MODE		MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS		
		1 No. WORDS	2 BITS PER WORD	3 PROG CODE	4 STRUCTURE CODE			NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT			LOGIC/BLOCK	OUTLINE	
																		+
1	5348-1J	512	8	SE	BDT	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20f	ML274
2	5348-1N	512	8	SE	BDT	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20f	ML275
3	5349-1J	512	8	SE	BDT	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20f	ML274
4	5349-1N	512	8	SE	BDT	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20f	ML275
5	MCM7640DM	512	8	SE	BDT	85n	700m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	PN24an	ML319
6	MCM7641DM	512	8	SE	BDT	85n	700m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	PN24an	ML319
7	SN54S474J	512	8	SE	BDT	85n	600m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Field Program	PN24aj	MOO15AA
8	SN54S474W	512	8	SE	BDT	85n	600m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Field Program	PN24aj	MOO19AA
9	SN54S475J	512	8	SE	BDT	85n	600m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Field Program	PN24aj	MOO15AA
10	SN54S475W	512	8	SE	BDT	85n	600m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Field Program	PN24aj	MOO19AA
11	AM27S15DM	512	8	SE	BDT	90n	925m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B447	ML239
12#	RC82S115F	512	8	SE	BDT	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B199a	ML133
13#	RC82S115I	512	8	SE	BDT	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B199a	ML150b
14#	RC82S115N	512	8	SE	BDT	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B199a	ML135
15	S82S115F	512	8	SE	BDT	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B199a	ML133
16	S82S115N	512	8	SE	BDT	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B199a	ML135
17	N82S140F	512	8	SE	BTX	60n	170u†	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B413	ML133
18	N82S140N	512	8	SE	BTX	60n	875m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B413	ML135
19	N82S141F	512	8	SE	BTX	60n	170u†	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B413	ML133
20	N82S141N	512	8	SE	BTX	60n	875m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B413	ML135
21#	uPB405C	512	8	SE	BTX	70n∅	800m	.50	7.0	.80	2.0	16m	.45	2	7		B413	ML72g
22#	uPB405D	512	8	SE	BTX	70n∅	800m	.50	7.0	.80	2.0	16m	.45	2	7		B413	ML30i
23#	uPB425C	512	8	SE	BTX	70n∅	800m	.50	7.0	.80	2.0	16m	.45	2	7		B413	ML72g
24#	uPB425D	512	8	SE	BTX	70n∅	800m	.50	7.0	.80	2.0	16m	.45	2	7		B413	ML30i
25	5348-1D	512	8	SE	BTX	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20f	ML161c
26	5349-1D	512	8	SE	BTX	80n	775m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN20f	ML161c
27	5340-1D	512	8	SE	BTX	90n∅	700m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Fld Prog	B130a	ML207d
28	5341-1D	512	8	SE	BTX	90n∅	700m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Fld Prog	B130a	ML207d
29#	RC82S140F	512	8	SE	BTX	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B413	ML133
30#	RC82S140N	512	8	SE	BTX	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B413	ML135
31#	RC82S141F	512	8	SE	BTX	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B413	ML133
32#	RC82S141N	512	8	SE	BTX	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B413	ML135
33	S82S140F	512	8	SE	BTX	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B413	ML133
34	S82S140N	512	8	SE	BTX	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B413	ML135
35	S82S141F	512	8	SE	BTX	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B413	ML133
36	IM6654AIDG	512	8	SE	MCX	300n	5.0u†	0.0	10	.80	8.0Δ	1.0uΔ		4	8	EPROM	B464	ML404
37	IM6654AIJG	512	8	SE	MCX	300n	5.0u†	0.0	10	.80	8.0Δ	1.0uΔ		4	8	EPROM	B464	ML403
38	IM6654IDG	512	8	SE	MCX	550n	5.0u†	0.0	5.0	.80	3.0Δ	1.0uΔ		4	8	EPROM	B464	ML404
39	IM6654IJG	512	8	SE	MCX	550n	5.0u†	0.0	5.0	.80	3.0Δ	1.0uΔ		4	8	EPROM	B464	ML403
40	IM6654MDG	512	8	SE	MCX	600n	5.0u†	0.0	5.0	.80	3.0Δ	1.0uΔ		5	C	EPROM	B464	ML404
41	IM6654MJG	512	8	SE	MCX	600n	5.0u†	0.0	5.0	.80	3.0Δ	1.0uΔ		5	C	EPROM	B464	ML403
42	2704I	512	8	SE	MNG	450n	1.5 ∇	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EAROM	B163b	ML256
43	EA2704DC	512	8	SE	MNG	450n	630m	5.0	12	.80	2.0Δ	1.6m	.45	0	7	EPROM	B256	ML207f
44#	M2704D1	512	8	SE	MNG	450n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B296b	ML303
45	EA2704DL	512	8	SE	MNG	500n	630m	5.0	12	.80	2.0Δ	1.6m	.45	5	9	EPROM	B256	ML207f
46	EA2704DM	512	8	SE	MNG	550n	630m	5.0	12	.80	2.0Δ	1.6m	.45	5	C	EPROM	B256	ML207f
47	MM5204Q-1	512	8	SE	MNG	700n	750m ∇	12	5.0	.80	3.5Δ	1.0uΔ	5.3	0	7	EPROM	B172	ML ∇
48	S5204A	512	8	SE	MPG	750n	250m	0.0	5.0	.80	2.5Δ	1.6m	.40	0	7	ROM	B255a	ML ∇
49	S5204A-3L	512	8	SE	MPG	750n	750m	12	5.0	.80	3.5Δ	1.6m	.40	0	7	Erasable PROM	B172	ML34f
50	MM5204Q	512	8	SE	MPG	1.0u	480m	12	5.0	.80	3.5Δ	1.6m	.40	0	7	Non-Vol EPROM	B172	ML200
51	MM4204Q	512	8	SE	MPG	1.2u	600m	12	5.0	.80	3.5Δ	1.6m	.40	5	8	Non-Vol EPROM	B172	ML184a
52	S6834	512	8	SE	MPX	575n	750m	12	5.0	.80	2.7Δ	1.6m	.40	0	7	Erasable PROM	B255	ML34g
53	S6834-1	512	8	SE	MPX	750n	750m	12	5.0	.80	2.7Δ	1.6m	.40	0	7	Erasable PROM	B255	ML34g
54	KM8655	512	8	SS	MPA	800n	440m	3	12									
55	RO3-5120	512	10	SC	MNI	500n	225m	0.0	5.0	.65	2.2Δ	1.6m	.45	0	7		B181b	ML324
56#	uPD471D	512	10	SC	MNX	315n	704m†	5.0	12	.80	3.0Δ	1.6m	.40	0	7		B215	ML ∇
57#	FDR146BZ	512	10	SC	MPX	725n	300m†	28	0.0	-9.0	-2.0	20m ∇		5	8		E13	ML118b
58#	FDR146Z	512	10	SC	MPX	725n	300m†	28	0.0	-9.0	-2.0	20m ∇		5	8		B71	ML41
59	UC65253K#4	1024#	1	SC	MPX	900n	150m†	5.0	5.0	.80	2.6	1.6m	.40	5	C		B9p	ML31a
60	UC65254K#4	1024#	1	SC	MPX	900n	150m†	5.0	5.0	.80	2.6	1.6m	.40	5	C		B9p	FL3a
61	UC75253K#4	1024#	1	SC	MPX	900n	150m†	5.0	5.0	.80	2.6	1.6m	.40	0	7		B9p	ML31a
62	UC75254K#4	1024#	1	SC	MPX	900n	150m†	5.0	5.0	.80	2.6	1.6m	.40	0	7		B9p	ML31a
63	UA2525D#4	1024	1	SC	MXX	900n	360m	10	0.0	.80†	2.7	1.6m	.40	5	C		B9	ML31a
64	UA3525D#4	1024	1	SC	MXX	900n	360m	10	0.0	.80†	2.7	1.6m	.40	2	7		B9	ML31a
65	UA3525F#4	1024	1	SC	MXX	900n	360m	10	0.0	.80†	2.7	1.6m	.40	2	7		B9	FL3a
66	RO1-2048#2	1024#	2	SC	MPT	750n	135m†	24	0.0	-2.0	-24	3.0m		5	8		B49	ML47
67	UA2548#3	1024	2	SC	MXX	900n	600m	20	0.0	.80†	2.7	1.6m	.40	5	C		B9a	ML31a
68	UA3548#3	1024	2	SC	MXX	900n	600m	20	0.0	.80†	2.7	1.6m	.40	2	7		B9a	ML31a
69	HRM2048#2	1024#	2#	SC	TAX	500n	640m†	0.0	5.0	2.0	.80			0	7	PR Non-Vol RMM	B91	ML113
70	UC6548#2	1024#	2	SS	MXX	1.0u	750m	15	5.0	.80	2.6			5	C		B9e	ML31a
71	UC7548#2	1024#	2	SS	MXX	1.0u	750m	15	5.0	.80	2.6			0	7		B9e	ML31a
72#	FDR1312#2	1024#	4	DC	MPD	1.5u	90m†	14	0.0	-9.0	-2.0			0	7		B36	ML41
73#	N82S136AF	1024	4	SC	BDT	45n	13m†	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B212	ML127r
74#	N82S136AN	1024	4	SC	BDT	45n	700m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B212	ML132
75#	N82S137AF	1024	4	SC	BDT	45n	13m†	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B212	ML127r
76#	N82S137AN	1024	4	SC	BDT	45n	700m	0.0	5.0	.85	2.0Δ	16m	.45	0	7	PROM	B212	ML132
77	6250-1F	1024	4	SC	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	ROM	PN18ax	FL ∇
78	6250-1J	1024	4	SC	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	ROM	PN18ax	ML278
79	6250-1N	1024	4	SC	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	ROM	PN18ax	ML279
80	6251-1F																	

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 OP MODE	4	5	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS			
		1 No. WORDS	2 BITS PER WORD						PROG CODE	STRUCTURE CODE	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)			(A)	@ OUT (V)	LOGIC/BLOCK	OUTLINE
1#	SFF70612KT#2																			
2	5350-1D	1024	4	SC	MPA	7.5Out	460mø	12	5.0	.80	3.0	2.0m†	1.0	2	8	Field Prog ROM	B96	ML95		
3	5351-1D	1024	4	SE	BDT	75n	875m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Field Prog ROM	B222	ML210a		
4	5352-1D	1024	4	SE	BDT	75n	875m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Field Prog ROM	B222a	ML210c		
5	5353-1D	1024	4	SE	BDT	75n	875m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	Field Prog ROM	B222a	ML210c		
6	53RA441F	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B330	FL†		
7	53RA441J	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B330			
8	53RA441N	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B330			
9	53RS441F	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B334	ML†		
10	53RS441J	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B334	ML†		
11	53RS441N	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B334	ML†		
12	63RA441F	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	20m	.50	0	7	PROM;Reg	B330	FL†		
13	63RA441J	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	20m	.50	0	7	PROM;Reg	B330	ML†		
14	63RA441N	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	20m	.50	0	7	PROM;Reg	B330	ML†		
15	63RS441F	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B334	ML†		
16	63RS441J	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B334	ML†		
17	63RS441N	1024	4	SE	BDT	30n†	900m	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B334	ML†		
18	53PS440F	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ay	FL†		
19	53PS440J	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ay	ML278		
20	53PS440N	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ay	ML279		
21	53PS441F	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ay	FL†		
22	53PS441J	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ay	ML278		
23	53PS441N	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ay	ML279		
24	63PS440F	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ay	FL†		
25	63PS440J	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ay	ML278		
26	63PS440N	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ay	ML279		
27	63PS441F	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ay	FL†		
28	63PS441J	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ay	ML278		
29	63PS441N	1024	4	SE	BDT	33n†	525m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ay	ML279		
30	MCM7642L	1024	4	SE	BDT	40n†		0.0	5.0							Open Coll	B319c			
31	MCM7642P	1024	4	SE	BDT	40n†		0.0	5.0							Open Coll	B319c			
32	MCM7643L	1024	4	SE	BDT	40n†		0.0	5.0							Tri State	B319c			
33	MCM7643P	1024	4	SE	BDT	40n†		0.0	5.0							Tri State	B319c			
34	SN54S476J	1024	4	SE	BDT	40n†	475m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18as	ML3b		
35	SN54S477J	1024	4	SE	BDT	40n†	475m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18as	ML3b		
36	SN74S476J	1024	4	SE	BDT	40n†	475m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN18as	ML3b		
37	SN74S476N	1024	4	SE	BDT	40n†	475m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN18as	ML3k		
38	SN74S477J	1024	4	SE	BDT	40n†	475m†	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN18as	ML3b		
39	SN74S477N	1024	4	SE	BDT	40n†	475m†	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN18as	ML3k		
40	63S440F	1024	4	SE	BDT	50n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ay	FL†		
41	63S440J	1024	4	SE	BDT	50n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ay	ML278		
42	63S440N	1024	4	SE	BDT	50n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ay	ML279		
43	63S441F	1024	4	SE	BDT	50n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ay	FL†		
44	63S441J	1024	4	SE	BDT	50n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ay	ML278		
45	63S441N	1024	4	SE	BDT	50n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ay	ML279		
46	93452DC	1024	4	SE	BDT	55n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B267	ML194d		
47	93452PC	1024	4	SE	BDT	55n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B267	ML3h		
48	93453DC	1024	4	SE	BDT	55n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B267	ML194d		
49	93453PC	1024	4	SE	BDT	55n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B267	ML3h		
50	53S440F	1024	4	SE	BDT	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18ay	FL†		
51	53S440J	1024	4	SE	BDT	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18ay	ML278		
52	53S440N	1024	4	SE	BDT	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18ay	ML279		
53	53S441F	1024	4	SE	BDT	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18ay	FL†		
54	53S441J	1024	4	SE	BDT	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18ay	ML278		
55	53S441N	1024	4	SE	BDT	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18ay	ML279		
56	6350-1F	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B342a	FL†		
57	6350-1J	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B342a	ML278		
58	6350-1N	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B342a	ML279		
59	6351-1F	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B342a	FL†		
60	6351-1J	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B342a	ML278		
61	6351-1N	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B342a	ML279		
62	6352-1F	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B319a	FL†		
63	6352-1J	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B319a	ML278		
64	6352-1N	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B319a	ML279		
65	6353-1F	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B319a	FL†		
66	6353-1J	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B319a	ML278		
67	6353-1N	1024	4	SE	BDT	60n	875m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B319a	ML279		
68	DM74S572J	1024	4	SE	BDT	60n	700m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B222a	ML194e		
69	DM74S572N	1024	4	SE	BDT	60n	700m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B222a	ML196		
70	DM74S573J	1024																		

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)NO.WDS(2)NO.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3]OP MODE	4] STRUCTURE	5] MAX ACCESS TIME (s)	MAX OPER. POWER (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS		
		1] No. WORDS	2] BITS PER WORD					PROG CODE	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)			@ OUT (V)	LOGIC/BLOCK	OUTLINE
1	JANM38510/20602BVB	1024	4	SE	BTD	85n*	794m	0.0	5.0	.80	2.0s	12m	.50	5	C	PROM	B405	ML255
2	JANM38510/20602CVB	1024	4	SE	BTD	85n*	794m	0.0	5.0	.80	2.0s	12m	.50	5	C	PROM	B405	ML255
3	MCM7642DM	1024	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0A	16m	.45	5	C	PROM	PN18as	ML370
4	MCM7643DM	1024	4	SE	BTD	85n	700m	0.0	5.0	.80	2.0s	16m	.45	5	C	PROM	PN18as	ML370
5	AM27S32DC	1024	4	SE	BTD	55 ∅	700m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	B451	ML194f
6	AM27S32PC	1024	4	SE	BTD	55 ∅	700m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	B451	ML31
7	AM27S33DC	1024	4	SE	BTD	55 ∅	700m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B451	ML194f
8	AM27S33PC	1024	4	SE	BTD	55 ∅	700m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B451	ML31
9	AM27S32DM	1024	4	SE	BTD	70 ∅	725m	0.0	5.0	.80	2.0A	16m	.45	5	C	PROM	B451	ML194f
10	AM27S33DM	1024	4	SE	BTD	70 ∅	725m	0.0	5.0	.80	2.0s	16m	.45	5	C	PROM	B451	ML194f
11#	HN25044	1024	4	SE	BTX	50n	500m	0.0	5.0	.80	2.0A	40uΔ	.40	2	7	PR	B414	ML27
12#	HN25045	1024	4	SE	BTX	50n	500m	0.0	5.0	.80	2.0s	40uΔ	.40	2	7	PR	B414	ML27
13#	uPB406D	1024	4	SE	BTX	70n∅	750m	.50	7.0	.80	2.0s	16m	.45	2	7	PR	B414	ML226c
14#	uPB426D	1024	4	SE	BTX	70n∅	750m	.50	7.0	.80	2.0s	16m	.45	2	7	PR	B414	ML226c
15	C3625A-1	1024	4	SE	BXX	50n	700m	0.0	5.0	.85	2.0s	15m	.45	0	7	PROM	B214	ML360
16	IM6653AIDG	1024	4	SE	MCX	300n	5.0u†	0.0	10	.80	8.0s	1.0uΔ		4	8	EPROM	B464	ML404
17	IM6653AIJG	1024	4	SE	MCX	300n	5.0u†	0.0	10	.80	8.0s	1.0uΔ		4	8	EPROM	B464	ML403
18	IM6653IDG	1024	4	SE	MCX	550n	5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		4	8	EPROM	B464	ML404
19	IM6653IJG	1024	4	SE	MCX	550n	5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		4	8	EPROM	B464	ML403
20	IM6653MDG	1024	4	SE	MCX	600n	5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		5	C	EPROM	B464	ML404
21	IM6653MJG	1024	4	SE	MCX	600n	5.0u†	0.0	5.0	.80	3.0s	1.0uΔ		5	C	EPROM	B464	ML403
22	ER3400	1024	4	SE	MPN	650n	535m	30	5.0	.80	3.5s	2.0m	.40	0	7	EAROM	B240	ML242
23	NC7451	1024	4	SE	MPN	900n	575m	30	5.0	.80	3.5s	2.0m	.40	0	7	EAROM	B410	ML27
24	ER3401	1024	4	SE	MPN	950n	535m	30	5.0	.80	3.5s	2.0m	.40	0	7	EAROM	B240	ML242
25	ER2401	1024	4	SE	MPN	2.0u	700m	23	5.0	.60	3.5s	3.2m		0	7	EAROM	B238	ML324
26	ER2401A	1024	4	SE	MX	2.0u	700m	23	5.0	.60	3.2m	.80	.40	0	7	EAROM	B238a	ML324
27#	uPD472D	1024	5	SC	MX	315n	704m†	5.0	12	.80	3.0s	1.6m	.40	0	7	PROM	B216	ML27
28#	SN741LS479J	1024	8	SC	MX	80n†	350m†	0.0	5.0	.80	2.0A	8.0m	.45	0	7	PROM	PN24ag	ML30k
29	SN741LS479N	1024	8	SC	MX	80n†	350m†	0.0	5.0	.80	2.0A	8.0m	.45	0	7	PROM	PN24ag	ML72f
30#	RC82S280I	1024	8	SC	BTD	100n	750m	0.0	5.0	.80	2.0A	9.6m\$	.50	5	C	PROM	B131	ML256
31#	RC82S281I	1024	8	SC	BTD	100n	750m	0.0	5.0	.80	2.0A	9.6m\$	.50	5	C	PROM	B131	ML256
32#	29631ADC	1024	8	S	S	50n	850m	0.0	5.0	.50	2.4s	16m	.50	0	7	PROM	B304	ML183c
33#	29633ADC	1024	8	S	S	55n	150m	0.0	5.0	.50	2.4s	16m	.50	0	7	PROM; Pwr Sw	B304	ML183c
34#	29631ADM	1024	8	S	S	60n	850m	0.0	5.0	.50	2.4s	16m	.50	0	7	PROM	B304	ML183c
35#	29633ADM	1024	8	S	S	75n	150m	0.0	5.0	.50	2.4s	16m	.50	0	7	PROM; Pwr Sw	B304	ML183c
36#	M512708K	1024	8	S	MNG	450n	600m†	5.0	12					0	7	EPROM;Fld Prg		DL27
37#	M512708K65	1024	8	S	MNG	650n	600m†	5.0	12					0	7	EPROM;Fld Prg		DL27
38	MCM7680CDC	1024	8	S	MTD	70n	4.5 ∇	0.0	5.0	0.8	2.0A	100m∇		0	6	PROM	B450	ML319
39	MCM7680CDM	1024	8	S	MTD	70n	4.5 ∇	0.0	5.0	0.8	2.0A	100m∇		5	C	PROM	B450	ML319
40	MCM7681CDC	1024	8	S	MTD	85n	4.5 ∇	0.0	5.0	0.8	2.0s	100m∇		0	6	PROM	B450	ML319
41	MCM7681CDM	1024	8	S	MTD	85n	4.5 ∇	0.0	5.0	0.8	2.0s	100m∇		5	C	PROM	B450	ML319
42	AM27S80DC	1024	8	SC	BTD	90n†	600m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	B450	ML27
43	AM27S80DM	1024	8	SC	BTD	90n†	600m	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	B450	ML27
44	AM27S80XX	1024	8	SC	BTD	90n†	600m	0.0	5.0	.80	2.0A	16m	.45	5	C	PROM	B450	ML27
45	AM27S81DC	1024	8	SC	BTD	90n†	600m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B450	ML27
46	AM27S81DM	1024	8	SC	BTD	90n†	600m	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B450	ML27
47	AM27S81XX	1024	8	SC	BTD	90n†	600m	0.0	5.0	.80	2.0s	16m	.45	5	C	PROM	B450	ML27
48	93454DC	1024	8	SC	BTD	45n	750m†	0.0	5.0	.80	2.0	16m	.45	0	7	PROM	B162	ML193
49	93454FC	1024	8	SC	BTD	45n	750m†	0.0	5.0	.80	2.0A	16m	.45	0	7	PROM	B162	FL3c
50	93454PC	1024	8	SC	BTD	45n	750m†	0.0	5.0	.80	2.0	16m	.45	0	7	PROM	B162	ML216
51	93464DC	1024	8	SC	BTD	45n	750m†	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B162	ML193
52	93464FC	1024	8	SC	BTD	45n	750m†	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B162	FL3c
53	93464PC	1024	8	SC	BTD	45n	750m†	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	B162	ML216
54	6280-2F	1024	8	SC	BTD	55n	850m	0.0	5.0	.80	2.0A	10m	.50	0	7	ROM	PN24ag	FL50
55	6280-2J	1024	8	SC	BTD	55n	850m	0.0	5.0	.80	2.0A	10m	.50	0	7	ROM	PN24ag	ML276
56	6280-2N	1024	8	SC	BTD	55n	850m	0.0	5.0	.80	2.0A	10m	.50	0	7	ROM	PN24ag	ML277
57	6281-2F	1024	8	SC	BTD	55n	900m	0.0	5.0	.80	2.0s	10m	.50	0	7	ROM	PN24ag	FL50
58	6281-2J	1024	8	SC	BTD	55n	900m	0.0	5.0	.80	2.0s	10m	.50	0	7	ROM	PN24ag	ML276
59	6281-2N	1024	8	SC	BTD	55n	900m	0.0	5.0	.80	2.0s	10m	.50	0	7	ROM	PN24ag	ML277
60	6286-2J	1024	8	SC	BTD	55n	850m	0.0	5.0	.80	2.0A	10m	.50	0	7	ROM	PN22aw	ML284
61	6286-2N	1024	8	SC	BTD	55n	850m	0.0	5.0	.80	2.0A	10m	.50	0	7	ROM	PN22aw	ML27
62	6287-2J	1024	8	SC	BTD	55n	900m	0.0	5.0	.80	2.0s	10m	.50	0	7	ROM	PN22aw	ML284
63	6287-2N	1024	8	SC	BTD	55n	900m	0.0	5.0	.80	2.0s	10m	.50	0	7	ROM	PN22aw	ML27
64	6289-2J	1024	8	SC	BTD	55n	850m	0.0	5.0	.80	2.0	10m	.50	0	7	ROM	B348	ML274
65	6289-2N	1024	8	SC	BTD	55n	850m	0.0	5.0	.80	2.0	10m	.50	0	7	ROM	B348	ML275
66	93454DM	1024	8	SC	BTD	60n	750m†	0.0	5.0	.80	2.0	16m	.45	5	C	PROM	B162	ML193
67	93454FM	1024	8	SC	BTD	60n	750m†	0.0	5.0	.80	2.0	16m	.45	5	C	PROM	B162	FL3c
68	93464DM	1024	8	SC	BTD	60n	750m†	0.0	5.0	.80	2.0s	16m	.45	5	C	PROM	B162	ML193
69	93464FM	1024	8	SC	BTD	60n	750m†	0.0	5.0	.80	2.0s	16m	.45	5	C	PROM	B162	FL3c
70#	MCM7680DCL	1024	8	SC	BTD	70n		0.0	5.0	.80	2.0A	100uΔ		0	7	PROM	PN24dw	ML319
71#	MCM7681DCL	1024	8	SC	BTD	70n		0.0	5.0	.80	2.0s			0	7	PROM	PN24dw	ML319
72	N82S280F	1024	8	SC	BTD	70n	700m	0.0	5.0	.85	2.0A	9.6m\$	.45	0	7	ROM	B131	ML133
73#	N82S280I	1024	8	SC	BTD	70n	750m	0.0	5.0	.85	2.0A	9.6m\$	.45	0	7	ROM	B131	ML256
74	N82S280N	1024	8	SC	BTD	70n	700m	0.0	5.0	.85	2.0s	9.6m\$	.45	0	7	ROM	B131	ML135
75	N82S281F	1024	8	SC	BTD	70n	700m	0.0	5.0	.85	2.0s	9.6m\$	.45	0	7	ROM	B131	ML133
76#	N82S281I	1024	8	SC	BTD	70n	750m	0.0	5.0	.85	2.0s	9.6m\$	.45	0	7	ROM	B131	ML256
77	N82S281N	1024	8	SC	BTD	70n	700m	0.0	5.0	.85	2.0s	9.6m\$	.45	0	7	ROM	B131	ML135
78	5280-2F	1024	8	SC	BTD	75n	850m	0.0	5.0	.80	2.0A	8.0m	.50	5	C	ROM	PN24ag	FL50
79	5280-2J	1024	8	SC	BTD	75n	850m	0.0	5.0	.80	2.0A	8.0m	.50	5				

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 OP 4	5	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT (A)	OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	LOGIC/BLOCK	DRAWINGS OUTLINE		
		1 No. WORDS	2 BITS PER WORD					MODE	STRUCTURE CODE	NEG. (V)	POS. (V)						MAX '0' (V)	MIN '1' (V)
												MIN	MAX	OUT				
1	6285-1N	1024	8	SC	BTD	100n	900m	0.0	5.0	.80	2.0s	10m	0	7	ROM	PN24ec	ML277	
2	6286-1J	1024	8	SC	BTD	100n	850m	0.0	5.0	.80	2.0Δ	10m	.50	0	7	ROM	PN22aw	ML284
3	6286-1N	1024	8	SC	BTD	100n	850m	0.0	5.0	.80	2.0Δ	10m	.50	0	7	ROM	PN22aw	ML277
4	6287-1J	1024	8	SC	BTD	100n	900m	0.0	5.0	.80	2.0s	10m	.50	0	7	ROM	PN22aw	ML284
5	6287-1N	1024	8	SC	BTD	100n	900m	0.0	5.0	.80	2.0s	10m	.50	0	7	ROM	PN22aw	ML277
6	6289-1J	1024	8	SC	BTD	100n	850m	0.0	5.0	.80	2.0	10m	.50	0	7	ROM	B348	ML274
7	6289-1N	1024	8	SC	BTD	100n	850m	0.0	5.0	.80	2.0	10m	.50	0	7	ROM	B348	ML275
8	S82S280F	1024	8	SC	BTD	100n	750m	0.0	5.0	.80	2.0Δ	9.6m\$	.50	5	C	ROM	B131	ML133
9#	S82S280I	1024	8	SC	BTD	100n	750m	0.0	5.0	.80	2.0Δ	9.6m\$	.50	5	C	ROM	B131	ML256
10	S82S281F	1024	8	SC	BTD	100n	750m	0.0	5.0	.80	2.0s	9.6m	.50	5	C	ROM	B131	ML133
11#	S82S281I	1024	8	SC	BTD	100n	750m	0.0	5.0	.80	2.0s	9.6m\$	.50	5	C	ROM	B131	ML256
12	5280-1F	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ag	FL50
13	5280-1J	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ag	ML276
14	5280-1N	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ag	ML277
15	5281-1F	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ag	FL50
16	5281-1J	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ag	ML276
17	5281-1N	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ag	ML277
18	5282-1F	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ag	FL50
19	5282-1J	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ag	ML276
20	5282-1N	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ag	ML277
21	5283-1F	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ag	FL50
22	5283-1J	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ag	ML276
23	5283-1N	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ag	ML277
24	5284-1F	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ec	FL50
25	5284-1J	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ec	ML276
26	5284-1N	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN24ec	ML277
27	5285-1F	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ec	FL50
28	5285-1J	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ec	ML276
29	5285-1N	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN24ec	ML277
30	5286-1J	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN22aw	ML284
31	5286-1N	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	ROM	PN22aw	ML284
32	5287-1J	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN22aw	ML284
33	5287-1N	1024	8	SC	BTD	175n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	ROM	PN22aw	ML284
34	5289-1J	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0	8.0m	.50	5	C	ROM	B348	ML274
35	5289-1N	1024	8	SC	BTD	175n	850m	0.0	5.0	.80	2.0	8.0m	.50	5	C	ROM	B348	ML275
36	SCP1834	1024	8	SC	MCG	350nt	80mt	0.0	10	.01%	9.9	2.5	.50	5	C	PR	B459	ML274
37	SCP1834L	1024	8	SC	MCG	850nt	15mt	0.0	5.0	.01%	4.9	2.8	.50	5	C	PR	B459	ML275
38	CDP1833CD	1024	8	SC	MCX	350n	5.5k+	0.5	7.0#	1.5	3.5	.80	.40	4	8	PR	A498	ML140
39	CDP1833CE	1024	8	SC	MCX	350n	5.5k+	0.5	7.0#	1.5	3.5	.80	.40	4	8	PR	A498	MOO15A#
40	CDP1833D	1024	8	SC	MCX	350n	1.1k+	0.5	11#	1.5	3.5	.80	.40	4	8	PR	A498	ML140
41	CDP1833E	1024	8	SC	MCX	350n	1.1k+	0.5	11#	1.5	3.5	.80	.40	4	8	PR	A498	MOO15A#
42	CDP1834CD	1024	8	SC	MCX	350n	5.5k+	0.5	7.0#	1.5	3.5	.80	.40	4	8	PR	A498	ML140
43	CDP1834CE	1024	8	SC	MCX	350n	5.5k+	0.5	7.0#	1.5	3.5	.80	.40	4	8	PR	A498	MOO15A#
44	CDP1834D	1024	8	SC	MCX	350n	1.1k+	0.5	11#	1.5	3.5	.80	.40	4	8	PR	A498	ML140
45	CDP1834E	1024	8	SC	MCX	350n	1.1k+	0.5	11#	1.5	3.5	.80	.40	4	8	PR	A498	MOO15A#
46	SCP1833C	1024	8	SC	MCX	350nt	5.0mt	0.0	10	3.0	7.0	3.6m	10	5	C	ROM	B356	ML276
47	SCP1833E	1024	8	SC	MCX	350nt	5.0mt	0.0	10	3.0	7.0	3.6m	10	4	8	ROM	B356	ML39b
48	SCP1834C	1024	8	SC	MCX	350nt	5.0mt	0.0	10	3.0	7.0	3.6m	10	5	C	ROM	B357	ML277
49	SCP1834E	1024	8	SC	MCX	350nt	5.0mt	0.0	10	3.0	7.0	3.6m	10	4	8	ROM	B357	ML39b
50	SCP1833LC	1024	8	SC	MCX	850nt	500ut	0.0	5.0	1.5	3.5	2.2m	5.0	5	C	ROM	B356	ML276
51	SCP1833LE	1024	8	SC	MCX	850nt	500ut	0.0	5.0	1.5	3.5	2.2m	5.0	4	8	ROM	B356	ML39b
52	SCP1834LC	1024	8	SC	MCX	850nt	500ut	0.0	5.0	1.5	3.5	2.2m	5.0	5	C	ROM	B357	ML277
53	SCP1834LE	1024	8	SC	MCX	850nt	500ut	0.0	5.0	1.5	3.5	2.2m	5.0	4	8	ROM	B357	ML39b
54	EA4700DC	1024	8	SC	MNA	350n	800m	0.0	5.0	.80	2.2s	1.6m	.40	0	7	ROM	B189	ML168
55	EA4700PC	1024	8	SC	MNA	350n	1.2	0.0	5.0	.80	2.2s	1.6m	.40	0	7	ROM	B189	ML214
56	EA2308AC	1024	8	SC	MNA	400n	1.2	0.0	5.0	.80	2.2s	2.0m	.45	0	7	ROM	B190	ML214
57	EA2308AP	1024	8	SC	MNA	400n	800m	0.0	5.0	.80	2.2s	2.0m	.45	0	7	ROM	B190	ML168
58	EA8308AC	1024	8	SC	MNA	400n	1.2	0.0	5.0	.80	2.2s	2.0m	.45	0	7	ROM	B190	ML214
59	EA8308AP	1024	8	SC	MNA	400n	800m	0.0	5.0	.80	2.2s	2.0m	.45	0	7	ROM	B190	ML168
60	MCM68B30AC	1024	8	SC	MNG	250n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0	7	ROM	B187	ML319
61	MCM68B30AP	1024	8	SC	MNG	250n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0	7	ROM	B187	ML39
62	MCM68B30BC	1024	8	SC	MNG	250n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0	7	ROM	B290	ML319
63	MCM68B30BL	1024	8	SC	MNG	250n	650m	0.0	5.0	.8	2.0s	1.6m	.40	0	6	ROM	B290	ML256
64	MCM68B30BP	1024	8	SC	MNG	250n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0	7	ROM	B290	ML39
65	AM9208CDC	1024	8	SC	MNG	300n	1.0	0.0	5.0	.80	2.4	3.2m	.40	0	7	ROM	B188	ML207c
66	MCM68A30AC	1024	8	SC	MNG	350n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0	7	ROM	B187	ML319
67	MCM68A30AP	1024	8	SC	MNG	350n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0	7	ROM	B187	ML39
68	MCM68A30BC	1024	8	SC	MNG	350n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0	7	ROM	B290	ML319
69	MCM68A30BL	1024	8	SC	MNG	350n	650m	0.0	5.0	.8	2.0s	1.6m	.40	0	6	ROM	B290	ML256
70	MCM68A30BP	1024	8	SC	MNG	350n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0	7	ROM	B290	ML39
71	MCM65308L	1024	8	SC	MNG	350n	1.0	5.0	12	0.8	4.0s	1.6m	.40	0	6	ROM	B452	ML256
72	MCM65308P	1024	8	SC	MNG	350n	1.0	5.0	12	0.8	4.0s	1.6m	.40	0	6	ROM	B452	ML133
73	AM9208BDC	1024	8	SC	MNG	400n	1.0	0.0	5.0	.80	2.4	3.2m	.40	0	7	ROM	B188	ML207c
74	AM9208BDM	1024	8	SC	MNG	400n	1.0	0.0	5.0	.80	2.6	3.2m	.40	5	C	ROM	B188	ML207c
75#	MCM6830AL	1024	8	SC	MNG	500n	0.0	0.0	5.0	.80	2.0s	10uΔ	.40	0	7	PROM	B187	ML150a
76	MCM68308L	1024	8	SC	MNG	500n	650m	0.0	5.0	0.8	2.0s	1.6m	.40	0	6	ROM	B453	ML256
77	MCM68308P	1024	8	SC	MNG	500n	650m	0.0	5.0	0.8	2.0s	1.6m	.40	0	6	ROM	B453	M133
78#	uPD465D	1024	8	SC	MNG	500n	311mt	5.0	12	.70	3.0s	1.7m	.50	1	7	ROM	B420	ML366
79	2608I	1024	8	SC	MNX	550n	400m	0.0	5.0</									

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)NO.WDS(2)NO.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE NO.

LINE No.	TYPE No.	ORGANIZATION				MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	DRAWINGS				
		1 No. WORDS	2 BITS PER WORD	3 MODE CODE	4 STRUCTURE CODE			NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT		+	-	GENERAL DESCRIPTION	LOGIC/BLOCK	OUTLINE
1	53PS880J	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN24ag	ML276	
2	53PS880N	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN24ag	ML277	
3	53PS881F	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN24ag	FL50	
4	53PS881J	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN24ag	ML276	
5	53PS881N	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN24ag	ML277	
6	63PS880F	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ag	FL50	
7	63PS880J	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ag	ML276	
8	63PS880N	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ag	ML277	
9	63PS881F	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ag	FL50	
10	63PS881J	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ag	ML276	
11	63PS881N	1024	8	SE	BTD	39nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN24ag	ML277	
12	93450DC	1024	8	SE	BTD	40nΔ†		0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161a	ML193	
13	93450DM	1024	8	SE	BTD	40nΔ†		0.0	5.0	.80	2.0Δ	16m	.45	5	C	Field Program	B161a	ML193	
14	93450FC	1024	8	SE	BTD	40nΔ†		0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161a	FL3c	
15	93450PC	1024	8	SE	BTD	40nΔ†		0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161a	ML216	
16	93451DC	1024	8	SE	BTD	40nΔ†		0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161a	ML193	
17	93451DM	1024	8	SE	BTD	40nΔ†		0.0	5.0	.80	2.0Δ	16m	.45	5	C	Field Program	B161a	ML193	
18	93451FC	1024	8	SE	BTD	40nΔ†		0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161a	FL3c	
19	93451PC	1024	8	SE	BTD	40nΔ†		0.0	5.0	.80	2.0Δ	16m	.45	0	7	Field Program	B161a	ML216	
20	MCM7660L	1024	8	SE	BTD	40nt		0.0	5.0	.80						Open Coll	B455		
21	MCM7660P	1024	8	SE	BTD	40nt		0.0	5.0	.80						Open Coll	B455		
22	MCM7661L	1024	8	SE	BTD	40nt		0.0	5.0	.80						Tri State	B455		
23	29631DC	1024	8	SE	BTD	45nt∅	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B314	ML277	
24	29631DM	1024	8	SE	BTD	45nt∅	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B314	ML277	
25	29635DC	1024	8	SE	BTD	45nt∅	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	B315	ML277	
26	29635DM	1024	8	SE	BTD	45nt∅	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B315	ML277	
27	SN54S478J	1024	8	SE	BTD	45nt	625m	0.0	5.0	.80	2.0Δ	4.0m	.50	5	C	PROM	PN24ag	ML30k	
28	SN54S479J	1024	8	SE	BTD	45nt	625m	0.0	5.0	.80	2.0Δ	4.0m	.50	5	C	PROM	PN24ag	ML30k	
29	SN54S2708J	1024	8	SE	BTD	45nt	625m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ec	ML30k	
30	SN54S3708J	1024	8	SE	BTD	45nt	625m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ec	ML30k	
31	SN74S478J	1024	8	SE	BTD	45nt	625m†	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ag	ML30k	
32	SN74S478N	1024	8	SE	BTD	45nt	625m†	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ag	ML30k	
33	SN74S479J	1024	8	SE	BTD	45nt	625m†	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ag	ML30k	
34	SN74S479N	1024	8	SE	BTD	45nt	625m†	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ag	ML30k	
35	SN74S2708J	1024	8	SE	BTD	45nt	625m†	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ec	ML30k	
36	SN74S2708N	1024	8	SE	BTD	45nt	625m†	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ec	ML30k	
37	SN74S3708J	1024	8	SE	BTD	45nt	625m†	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ec	ML30k	
38	SN74S3708N	1024	8	SE	BTD	45nt	625m†	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PROM	PN24ec	ML30k	
39	29633DC	1024	8	SE	BTD	50nt∅	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM;Pwr Sw	B314a	ML277	
40	29633DM	1024	8	SE	BTD	50nt∅	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	B314a	ML277	
41	29637DC	1024	8	SE	BTD	50nt∅	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM;Pwr Sw	B315a	ML277	
42	29637DM	1024	8	SE	BTD	50nt∅	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	B315a	ML277	
43	D3628A-1	1024	8	SE	BTD	50n	.08m†	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B246	ML359d	
44	53L880F	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ag	FL50	
45	53L880J	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ag	ML276	
46	53L880N	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ag	ML277	
47	53L881F	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ag	FL50	
48	53L881J	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ag	ML276	
49	53L881N	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN24ag	ML277	
50	63L880F	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ag	FL50	
51	63L880J	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ag	ML276	
52	63L880N	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ag	ML277	
53	63L881F	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ag	FL50	
54	63L881J	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ag	ML276	
55	63L881N	1024	8	SE	BTD	55nt	315m†	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ag	ML277	
56	D3628A	1024	8	SE	BTD	60n	.08m†	0.0	5.0	.80	2.0Δ	40uΔ	5.5	0	7	PROM	B246	ML359d	
57	HM1-7680RP5	1024	8	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM;Latch/PD	B391a	ML310	
58	HM1-7681RP5	1024	8	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM;Latch/PD	B391a	ML310	
59	HM3-7681P5	1024	8	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM;Pwr Sw	B391a	ML311	
60	HM3-7681RP5	1024	8	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM;Latch/PD	B391a	ML311	
61#	HN25088	1024	8	SE	BTD	60n		0.0	5.0	.80	2.0					PROM	B304	ML187	
62#	HN25089	1024	8	SE	BTD	60n		0.0	5.0	.80	2.0					PROM	B304	ML187	
63	DM77S180J	1024	8	SE	BTD	70n	800m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM	B435	ML200	
64	DM77S181J	1024	8	SE	BTD	70n	800m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	B435	ML200	
65	DM87S180J	1024	8	SE	BTD	70n	800m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B435	ML200	
66	DM87S180N	1024	8	SE	BTD	70n	800m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B435	ML133a	
67	DM87S181J	1024	8	SE	BTD	70n	800m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B435	ML200	
68	DM87S181N	1024	8	SE	BTD	70n	800m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B435	ML200	
69	MCM7680DC	1024	8	SE	BTD	70n	750m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ao	ML319	
70	MCM7681DC	1024	8	SE	BTD	70n	750m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN24ao	ML319	
71	D3628	1024	8	SE	BTD	80n	950m†	0.0	5.0	.85	2.0Δ	10m	.45	0	7	PROM	B246	ML359d	
72	HM3-7680RP2	1024	8	SE	BTD	80n	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Latch/PD	B391a	ML311	
73	HM9-7680RP2	1024	8	SE	BTD	80n	850m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Latch/PD	B391a	FL55	
74	SN54LS478J	1024	8	SE	BTD	80nt	350mt	0.0	5.0	.80	2.0Δ	4.0m	.50	5	C	PROM	PN24ag	ML30k	
75	SN54LS479J	1024	8	SE	BTD	80nt	350mt	0.0	5.0	.80	2.0Δ	4.0m	.50	5	C	PROM	PN24ag	ML30k	
76	SN74LS478J	1024	8	SE	BTD	80nt	350mt	0.0	5.0	.80	2.0Δ	8.0m	.45	0	7	PROM	PN24ag	ML30k	
77	SN74LS478N	1024	8	SE	BTD	80nt	350mt	0.0	5.0	.80	2.0Δ	8.0m	.45	0	7	PROM	PN24ag	ML27f	
78	MCM7680DM	1024	8	SE	BTD	85n	850m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	PROM	PN24ao	ML319	
79	MCM7681DM	1024	8	SE															

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 | OP | 4 | MODE	5 | MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS		
		1 | No. WORDS	2 | BITS PER WORD				NEG. (V)	POS. (V)	'0' (V)	'1' (V)	(A)	@ OUT (V)			LOGIC BLOCK	OUTLINE	
																	PROG. CODE
1	5384-1N	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN24ee	ML277
2	5385-1F	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN24ee	FL50
3	5385-1J	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN24ee	ML276
4	5385-1N	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN24ee	ML277
5	5386-1J	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN22ax	ML284
6	5387-1J	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN22ax	ML284
7	N82LS181F	1024	8	SE	175n	400m	0.0	5.0	.85	2.0Δ	4.8m	.45	0	7	PROM	B304	ML133
8	N82LS181N	1024	8	SE	175n	400m	0.0	5.0	.85	2.0Δ	4.8m	.45	0	7	PROM	B304	ML135
9	S82LS181F	1024	8	SE	225n	425m	0.0	5.0	.80	2.0Δ	4.8m	.50	5	C	PROM	B304	ML133
10	MCM82707L	1024	8	SE	40nt		0.0	5.0	.80	2.0Δ	15m				PROM	PN24ec	ML319
11	MCM82707P	1024	8	SE	40nt		0.0	5.0	.80	2.0Δ	15m				PROM	PN24ec	ML39
12	MCM82708L	1024	8	SE	40nt		0.0	5.0	.80	2.0Δ	15m				PROM	PN24ec	ML319
13	MCM82708P	1024	8	SE	40nt		0.0	5.0	.80	2.0Δ	15m				PROM	PN24ec	ML39
14#	N82S182F	1024	8	SE	60n	85ut%	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B425	ML133
15#	N82S182N	1024	8	SE	60n	875m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B425	ML135
16	MCM7680LDC	1024	8	SE	70n	750m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	CS PROM	PN24ao	ML126
17	MCM7681LDC	1024	8	SE	70n	750m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	CS PROM	PN24ao	ML126
18	N82S180F	1024	8	SE	70n	85ut%	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B304	ML133
19	N82S180N	1024	8	SE	70n	875m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B304	ML135
20	N82S181F	1024	8	SE	70n	85ut%	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B304	ML133
21	N82S181N	1024	8	SE	70n	875m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B304	ML135
22	N82S2708F	1024	8	SE	70n	85ut%	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B415	ML187
23	N82S2708N	1024	8	SE	70n	875m	0.0	5.0	.85	2.0Δ	9.6m	.45	0	7	PROM	B415	ML135
24	MCM7680LDM	1024	8	SE	85n	850m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	CS PROM	PN24ao	ML126
25	MCM7681LDM	1024	8	SE	85n	850m	0.0	5.0	.80	2.0Δ	16m	.45	5	C	CS PROM	PN24ao	ML126
26#	RC82S180F	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B304	ML133
27#	RC82S180N	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B304	ML135
28#	RC82S181F	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B304	ML133
29#	RC82S181N	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B304	ML135
30#	RC82S2708F	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B415	ML133
31#	RC82S2708N	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B415	ML135
32	S82S181F	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B304	ML133
33#	S82S182F	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B425	ML133
34#	S82S183F	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B425	ML133
35	S82S2708F	1024	8	SE	90n	925m	0.0	5.0	.80	2.0Δ	9.6m	.50	5	C	PROM	B415	ML133
36	5380-1D	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	B250	ML39d
37	5381-1D	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	B250	ML39d
38	5386-1D	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN22aw	ML8w
39	5387-1D	1024	8	SE	125n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PROM	PN22aw	ML8w
40#	uPB417C	1024	8	SE	200nφ	700m	.50	7.0	.80	2.0Δ	3.2m	.45	2	7		B415	ML72g
41#	uPB417D	1024	8	SE	200nφ	700m	.50	7.0	.80	2.0Δ	3.2m	.45	2	7		B415	ML30i
42	TMS2508-25JL	1024	8	SE	250n	250m	0.0	5.0	.80	2.0Δ	2.1m	.45	0	7	EPROM	B225	ML30k
43	MCM27A08C	1024	8	SE	300n	1.0	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B296a	ML374
44	MCM27A08L	1024	8	SE	300n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B288	ML373
45	MCM68A708C	1024	8	SE	300n	1.0	5.0	12	.80	2.0Δ	1.6m	.40	0	7	EPROM	B288	ML374
46	MCM68A708L	1024	8	SE	300n	800m	5.0	12	.80	2.0Δ	1.6m	.40	0	7	EPROM	B288	ML373
47	TMS2508-30JL	1024	8	SE	300n	250m	0.0	5.0	.80	2.0Δ	2.1m	.45	0	7	EPROM	B225	ML30k
48	D2708-1	1024	8	SE	350n	800m	5.0	12	.65	3.0Δ	1.0uΔ	5.5	0	6	EPROM	B296a	ML359d
49	F2708-1DC	1024	8	SE	350n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B288	ML322
50#	M2708-1D1	1024	8	SE	350n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B296a	ML303
51	MM2708Q-1	1024	8	SE	350n	800m	5.0	12	.08	2.0Δ	1.6m	.40	0	7	EPROM	B288	ML320
52	TMS2708-35JL	1024	8	SE	350n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B225	ML30k
53	AM2708DC	1024	8	SE	450n	426m	5.0	12	.65	2.2Δ	2.0m	.40	0	7	EPROM	B163	MLJ
54	AM2708DM	1024	8	SE	450n	426m	5.0	12	.65	2.2Δ	2.0m	.40	5	C	EPROM	B163	MLJ
55	C2708#	1024	8	SE	450n	426m	5.0	12	.65	2.2Δ	2.0m	.40	0	7	EPROM	B163	MLJ
56	D2708	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.0uΔ	5.5	0	6	EPROM	B296a	ML359d
57	D2708L	1024	8	SE	450n	425m	5.0	12	.65	2.2Δ	1.0uΔ	5.5	0	6	EPROM	B296a	ML359d
58	EA2708DC	1024	8	SE	450n	630m	5.0	12	.80	2.0Δ	1.6m	.45	0	7	EPROM	B256a	ML207f
59	F2708DC	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B288	ML322
60	F2708DL	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.6m	.45	5	8	EPROM	B288	ML322
61	F2708DM	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.6m	.45	5	8	EPROM	B288	ML322
62#	HN462708	1024	8	SE	450n	1.5	5.0	12	.65	3.0Δ	1.6m	.45	0	7	Erasable PROM	B163a	ML207g
63	ID2708	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.0uΔ	5.25	4	8	EPROM	B296a	ML359d
64#	M5L2708S	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B296a	ML340
65#	M2708D1	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B296a	ML303
66	MCM2708C	1024	8	SE	450n	1.0	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B296a	ML374
67	MCM2708L	1024	8	SE	450n	1.0	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B296a	ML373
68	MCM68708C	1024	8	SE	450n	1.0	5.0	12	.80	2.0Δ	1.6m	.40	0	7	EPROM	B288	ML374
69	MCM68708L	1024	8	SE	450n	1.0	5.0	12	.80	2.0Δ	1.6m	.40	0	7	EPROM	B288	ML373
70	MD2708	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.0uΔ	5.5	5	9	EPROM	B296a	ML359d
71	MM2708Q	1024	8	SE	450n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B277	ML200
72#	MM2758Q-A	1024	8	SE	450n	525m	0.0	5.0	.80	2.0Δ	1.0uΔ	5.25	0	7	EPROM	B297	MLJ
73#	MM2758Q-B	1024	8	SE	450n	525m	0.0	5.0	.80	2.0Δ	1.0uΔ	5.25	0	7	EPROM	B297	MLJ
74	SMJ2708JM	1024	8	SE	450n	500m	5.0	12	.65	2.4Δ	1.6m	.45	5	8	EPROM	B225	ML207
75	TMS27L08JL	1024	8	SE	450n	580m	5.0	12	.65	2.2Δ	1.6m	.40	0	7	EPROM	B225	ML72b
76	TMS2708JL	1024	8	SE	450n	500m	5.0	12	.65	2.4Δ	1.6m	.45	0	7	Erasable PROM	B225	ML30k
77	EA2708DL	1024	8	SE	500n	630m	0.0	12	.80	2.0Δ	1.6m	.45	5	9	EPROM	B256a	ML207f
78#	MSM3758AS	1024	8	SE	500nt	800mt	0.0	20	.65	3.0Δ	1.6m	.45	0	7	EPROM	B256a	MLJ
79	D2708-6	1024	8	SE	550n	800m	5.0	12	.65	3.0Δ	1.0uΔ	5.5	0	6	EPROM	B296a	ML359d
80	EA2708DM	1024	8	SE	550n	630m	5.0	12	.80	2.0Δ	1.6m	.45	5	8	EPROM	B256a	ML207f
81#	M5L2708S-65	1024	8	SE	650n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7	EPROM	B296a	ML340
82#	M2708-4D1	1024	8	SE	700n	800m	5.0	12	.65	3.0Δ	1.6m	.45	0	7			

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION				MODE	STRUCTURE CODE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS	
		1 No. WORDS	2 BITS PER WORD	3 PROG CODE	4 MODE					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT			LOGIC/BLOCK	OUTLINE
1	5255-1N	1024	10	SC	BTD	150n	825m	0.0	5.0	.80	2.0Δ	6.0m	.50	5	C	ROM	B343	ML277	
2	5256-1F	1024	10	SC	BTD	150n	875m	0.0	5.0	.80	2.0Δ	6.0m	.50	5	C	ROM	B343	FL50	
3	5256-1J	1024	10	SC	BTD	150n	875m	0.0	5.0	.80	2.0Δ	6.0m	.50	5	C	ROM	B343	ML276	
4	5256-1N	1024	10	SC	BTD	150n	875m	0.0	5.0	.80	2.0Δ	6.0m	.50	5	C	ROM	B343	ML277	
5	IM6312ACDN	1024	12	SS	MCG	250n	525m	0.0	10.5	2.1	7.35	1.0Δ	0	7	CS		B463	ML397	
6	IM6312AIJN	1024	12	SS	MCG	250n	525m	0.0	10.5	2.1	7.35	1.0Δ	0	7	CS		B463	ML398	
7	IM6312IFN	1024	12	SS	MCG	250n	525m	0.0	10.5	2.1	7.35	1.0Δ	0	7	CS		B463	FL77	
8	IM6312AMDN	1024	12	SS	MCG	300n	525m	0.0	10.5	2.1	7.35	1.0Δ	0	7	CS		B463	ML397	
9	IM6312MFN	1024	12	SS	MCG	300n	525m	0.0	10.5	2.1	7.35	1.0Δ	0	7	CS		B463	FL77	
10	IM6312IDN	1024	12	SS	MCG	510n	500m	0.0	10	2.0	7.0	1.0Δ	0	7	CS	ROM	B463	ML134f	
11	IM6312CDN	1024	12	SS	MCG	640n	4.0m	0.0	5.0	.80	3.5	5.0Δ	0	7	CS		B463	ML397	
12	IM6312CFN	1024	12	SS	MCG	640n	4.0m	0.0	5.0	.80	3.5	5.0Δ	0	7	CS		B463	FL77	
13	IM6312CJN	1024	12	SS	MCG	640n	4.0m	0.0	5.0	.80	3.5	5.0Δ	0	7	CS		B463	ML398	
14	IM6312IDN	1024	12	SS	MCG	640n	4.0m	0.0	5.0	.80	3.5	5.0Δ	0	7	CS		B463	ML397	
15	IM6312IJN	1024	12	SS	MCG	640n	4.0m	0.0	5.0	.80	3.5	5.0Δ	0	7	CS		B463	ML398	
16	IM6312MDN	1024	12	SS	MCG	640n	5.0m	0.0	5.0	1.0	3.5	5.0Δ	0	7	CS	ROM	B463	ML134f	
17	IM6312MJD	1024	12	SS	MCG	640n	4.0m	0.0	5.0	.80	3.5	5.0Δ	0	7	CS		B463	ML398	
18	HM3-6312C9	1024	12	SC	MCG	640n	2.5m	0.0	5.0	1.0	3.5	5.0Δ	0	7	CS	ROM	B206	ML305	
19	RO1-2048#1	2048#	1	SC	MPT	750n	1.4m	24	0.0	-2.0	-2.4	3.0m	.40	5	C		B49	ML47	
20	UA2548#4	2048	1	SC	MXX	900n	600m	20	0.0	.80	2.7	1.6m	.40	5	C		B9a	ML31a	
21	UA3548#4	2048	1	SC	MXX	900n	600m	20	0.0	.80	2.7	1.6m	.40	2	7		B9a	ML31a	
22	HRM2048#1	2048#	1#	SE	TAX	500n	640m	0	5.0	2.0	.80			0	7	PR Non-Vol RMM	B91	ML113	
23	UC6548#1	2048#	1	SS	MXX	1.0u	750m	15	5.0	.60	2.6			0	7		B9e	ML31a	
24	UC7548#1	2048#	1	SS	MXX	1.0u	750m	15	5.0	.60	2.6			0	7		B9e	ML31a	
25	RO1-8192	2048	4	DS	MPN	1.5u*	375m	12	5.0	.75	3.25	2.2m	1.5	0	7	Random No.Gen	B234	ML324	
26	RO5-8192	2048	4	DS	MPN	1.6u	400m	12	5.0	.80	3.5	1.6m	.50	0	7	PROM	B213	ML194f	
27	29651ADC	2048	4	SS		.50n	850m	0	5.0	.50	2.45	16m	.50	0	7	PROM; Pwr Sw	B213	ML194f	
28	29653ADC	2048	4	SS		.55n	225m	0.0	5.0	.50	2.45	16m	.50	0	7	PROM	B213	ML194f	
29	29651ADM	2048	4	SS		.60n	850m	0.0	5.0	.50	2.45	16m	.50	5	C	PROM	B213	ML194f	
30	29653ADM	2048	4	SS		.65n	225m	0.0	5.0	.50	2.45	16m	.50	5	C	PROM	B213	ML194f	
31	N82S185F#	2048	4	SC	BTD	100n	500m	0.0	5.0	.85	2.0Δ	40uΔ	5.5	0	7	PROM	B213a	ML226	
32	N82S184F	2048	4	SC	BTD	100n	835m	0.0	5.5	.80	2.4			0	7	Fid Prog	B213	ML226	
33	N82S185F	2048	4	SC	BTX	100n	835m	0.0	5.5	.80	2.4			0	7	Fid Prog	B213	ML226	
34	NC6560L#2	2048#	4	SC	MNA	350n	925m	3.0	12	.80	3.0Δ	1.6m	.40	0	7		B121a	ML30g	
35	MCM6560L#2	2048	4	SC	MNX	350n	1.0	3.0	12	.80	4.0Δ	1.6m	.40	0	7		B121a	ML150	
36	MCM6560P#2	2048	4	SC	MNX	350n	1.0	3.0	12	.80	4.0Δ	1.6m	.40	0	7		B121a	ML39	
37	53RA841J	2048	4	SE	BTD	35n	650m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B331	ML278	
38	53RA841N	2048	4	SE	BTD	35n	650m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B331	ML278	
39	53RS841J	2048	4	SE	BTD	35n	650m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B335	ML278	
40	53RS841N	2048	4	SE	BTD	35n	650m	0.0	5.0	.80	2.0	16m	.50	5	C	PROM;Reg	B335	ML278	
41	63RA841J	2048	4	SE	BTD	35n	650m	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B331	ML278	
42	63RA841N	2048	4	SE	BTD	35n	650m	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B331	ML278	
43	63RS841J	2048	4	SE	BTD	35n	650m	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B335	ML278	
44	63RS841N	2048	4	SE	BTD	35n	650m	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B335	ML278	
45	53PS840F	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ba	FL278	
46	53PS840J	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ba	ML278	
47	53PS840N	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ba	ML279	
48	53PS841F	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ba	FL278	
49	53PS841J	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ba	ML278	
50	53PS841N	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM;Pwr Sw	PN18ba	ML279	
51	63PS840F	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ba	FL278	
52	63PS840J	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ba	ML278	
53	63PS840N	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ba	ML279	
54	63PS841F	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ba	FL278	
55	63PS841J	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ba	ML278	
56	63PS841N	2048	4	SE	BTD	39n	550m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN18ba	ML279	
57	SN54S454J	2048	4	SE	BTD	45n	625m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18ba	ML3b	
58	SN54S455J	2048	4	SE	BTD	45n	625m	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PROM	PN18ba	ML3b	
59	SN74S454J	2048	4	SE	BTD	45n	625m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN18ba	ML3b	
60	SN74S454N	2048	4	SE	BTD	45n	625m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN18ba	ML3k	
61	SN74S455J	2048	4	SE	BTD	45n	625m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PROM	PN18ba	ML3b	
62	63S840F	2048	4	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ba	FL278	
63	63S840J	2048	4	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ba	ML278	
64	63S840N	2048	4	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ba	ML279	
65	63S841F	2048	4	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ba	FL278	
66	63S841J	2048	4	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ba	ML278	
67	63S841N	2048	4	SE	BTD	60n	850m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN18ba	ML279	
68	DM87S184J	2048	4	SE	BTD	60n	700m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B436	ML194e	
69	DM87S184N	2048	4	SE	BTD	60n	700m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B436	ML204a	
70	DM87S185J	2048	4	SE	BTD	60n	700m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B436	ML194e	
71	DM87S185N	2048	4	SE	BTD	60n	700m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	B436	ML204a	
72#	HN25084	2048	4	SE	BTD	60n	0.0	5.0	.80	2.0				0	7	PROM	B372	ML165c	
73#	HN25085	2048	4	SE	BTD	60n	0.0	5.0	.80	2.0				0	7	PROM	B372	ML185c	
74	53LS840F	2048	4	SE	BTD	62n	425m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN18ba	FL278	
75	53LS840J	2048	4	SE	BTD	62n	425m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN18ba	ML278	
76	53LS840N	2048	4	SE	BTD	62n	425m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN18ba	ML279	
77	53LS841F	2048	4	SE	BTD	62n	425m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN18ba	FL278	
78	53LS841J	2048	4	SE	BTD	62n	425m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM	PN18ba	ML278	
79	53LS841N	2048	4	SE	BTD	62n	425m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PROM			

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3	4	5	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT @ OUT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS			
		1	2						MODE	STRUCTURE CODE	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)			(A)	(V)	LOGIC/BLOCK	OUTLINE
1	NC7810	2048	4	SE	MXN	1.4u	480m	30	5.0	.80	3.5s				EAROM	B408	ML27			
2	ER2805	2048	4	SE	MXX	1.6u	700m	23	5.0	.80	3.5s				EAROM	B239	ML324			
3#	M5L2716K	2048	8			450n	525m	0.0	5.0	.80	2.0	2.1m	.45	0						
4#	M5L2716K-65	2048	8			650n	525m	0.0	5.0	.80	2.0	2.1m	.45	0						
5#	RC825290N	2048	8		BTX	80n	900m	0.0	5.0	.80	2.0A	9.6m	.50	5	ROM	B306	ML135			
6#	RC825291N	2048	8		BTX	80n	900m	0.0	5.0	.80	2.0s	9.6m	.50	5	ROM	B306	ML135			
7#	RC825290F	2048	8		BTX	100n	900m	0.0	5.0	.80	2.0A	9.6m	.50	5	ROM	B306	ML133			
8#	RC825291F	2048	8		BTX	100n	900m	0.0	5.0	.80	2.0s	9.6m	.50	5	ROM	B306	ML133			
9#	TMM323D-1	2048	8		MNG	350n	550m	0.0	5.0	.80	2.0	2.1m	0.45	0			ML403			
10#	TMM323D	2048	8		MNG	450n	525m	0.0	5.0	.80	2.0	2.1m	0.45	0			ML403			
11#	TMM334P	2048	8		MNG	450n	440m	0.0	5.0	.80	2.0	2.1m	0.4	0			ML118e			
12#	NMC2724Q-A	2048	8		MXG	450n	150m	0.0	5.0	.80	2.0s			0	EPROM	B297	ML27			
13#	NMC2724Q-B	2048	8		MXG	450n	150m	0.0	5.0	.80	2.0s			0	EPROM	B297	ML27			
14#	29681AFM	2048	8	S		70n	900m	0.0	5.0	.50	2.4s	16m	.50	5	PROM	B305	FL27			
15#	29683AFM	2048	8	S		70n	225m	0.0	5.0	.50	2.4s	16m	.50	5	PROM; Pwr Sw	B305	FL27			
16#	29681FM	2048	8	S		100n	900m	0.0	5.0	.50	2.4s	16m	.50	5	PROM	B305	FL27			
17#	29683FM	2048	8	S		105n	225m	0.0	5.0	.50	2.4s	16m	.50	5	PROM; Pwr Sw	B305	FL27			
18	ID8355	2048	8	S		400n	1.5	0.0	5.0	0.8	2.0	10uA		4			B467			
19#	CM1600C	2048	8	S	MCX	450n	120m	0.0	5.0	.65	2.0	2.1m	.40	0						
20#	CM1600P	2048	8	S	MCX	450n	120m	0.0	5.0	.65	2.0	2.1m	.40	0						
21#	CM1600-2C	2048	8	S	MCX	800n	120m	0.0	5.0	.65	2.0	2.1m	.40	0						
22#	CM1600-2P	2048	8	S	MCX	800n	120m	0.0	5.0	.65	2.0	2.1m	.40	0						
23#	CM1600-3C	2048	8	S	MCX	1.5u	120m	0.0	5.0	.65	2.0	2.1m	.40	0						
24#	CM1600-3P	2048	8	S	MCX	1.5u	120m	0.0	5.0	.65	2.0	2.1m	.40	0						
25	MCM27A16C	2048	8	S	MNG	350n	500m	0.0	5.0	.80	2.0	10uA	5.2	1	UV Erase PROM	B297	ML374			
26	MCM27A16L	2048	8	S	MNG	350n	500m	0.0	5.0	.80	2.0	10uA	5.2	1	UV Erase PROM	B297	ML373			
27	EA2716	2048	8	S	MNX	450n	525m	0.0	5.0	0.8	2.2	2.1m		1	EPROM	B432	ML193			
28#	MBC6831B	2048	8	S	MNX	450n	440m	4.55	5.5	0.8	2.0	2.1m	0.4	5						
29	R2316BC	2048	8	S	MTX	450n	325m	0.0	5.0	0.8	2.0s	10uA	5.5	0	CS OR-tied	B182a	ML381			
30	R2316BP	2048	8	S	MTX	450n	325m	0.0	5.0	0.8	2.0s	10uA	5.5	0	CS OR-tied	B182a	ML380			
31	R2316EC	2048	8	S	MTX	450n	325m	0.0	5.0	0.8	2.0s	10uA	5.5	0	CS OR-tied	B182a	ML381			
32	R2316EP	2048	8	S	MTX	450n	325m	0.0	5.0	0.8	2.0s	10uA	5.5	0	CS OR-tied	B182a	ML380			
33	R2316BCE	2048	8	S	MTX	475n	375m	0.0	5.0	0.8	2.0s	10uA	5.5	4	CS OR-tied	B182a	ML381			
34	R2316BPE	2048	8	S	MTX	475n	375m	0.0	5.0	0.8	2.0s	10uA	5.5	4	CS OR-tied	B182a	ML380			
35	R2316ECE	2048	8	S	MTX	475n	375m	0.0	5.0	0.8	2.0s	10uA	5.5	4	CS OR-tied	B182a	ML381			
36	R2316EPE	2048	8	S	MTX	475n	375m	0.0	5.0	0.8	2.0s	10uA	5.5	4	CS OR-tied	B182a	ML380			
37	R2316BMT	2048	8	S	MTX	550n	400m	0.0	5.0	0.8	2.0s	10uA	5.5	5	CS OR-tied	B182a	ML381			
38	R2316EMT	2048	8	S	MTX	550n	400m	0.0	5.0	0.8	2.0s	10uA	5.5	5	CS OR-tied	B182a	ML381			
39	SY2316B-3	2048	8	SC		300n	1.0	0.0	5.0	.80	2.0s	2.1m	.40	0	ROM	B182a	ML256			
40	SY2316B-3	2048	8	SC		300n	1.0	0.0	5.0	.80	2.0s	2.1m	.40	0	ROM	B182a	ML118f			
41	SY2316B	2048	8	SC		450n	1.0	0.0	5.0	.80	2.0s	2.1m	.40	0	PROM	B182a	ML256			
42	SY2316B	2048	8	SC		450n	1.0	0.0	5.0	.80	2.0s	2.1m	.40	0	PROM	B182a	ML118f			
43	SY2316A	2048	8	SC		550n	1.0	0.0	5.0	.80	2.0s	2.1m	.40	0	PROM	B182	ML256			
44	SY2316A	2048	8	SC		550n	1.0	0.0	5.0	.80	2.0s	2.1m	.40	0	PROM	B182	ML118f			
45#	MSM3780	2048	8	SC		1.0u	500m	0.0	5.0	.65	2.2s	1.6m	.45	0	PROM	B78b	ML256			
46	6275-1F	2048	8	SC	BDT	110n	950m	0.0	5.0	.80	2.0A	10m	.50	0	ROM	PN24ef	FL50			
47	6275-1J	2048	8	SC	BDT	110n	950m	0.0	5.0	.80	2.0A	10m	.50	0	ROM	PN24ef	ML276			
48	6275-1N	2048	8	SC	BDT	110n	950m	0.0	5.0	.80	2.0A	10m	.50	0	ROM	PN24ef	ML277			
49	6276-1F	2048	8	SC	BDT	110n	950m	0.0	5.0	.80	2.0s	10m	.50	0	ROM	PN24ef	FL50			
50	6276-1J	2048	8	SC	BDT	110n	950m	0.0	5.0	.80	2.0s	10m	.50	0	ROM	PN24ef	ML276			
51	6276-1N	2048	8	SC	BDT	110n	950m	0.0	5.0	.80	2.0s	10m	.50	0	ROM	PN24ef	ML277			
52	5275-1F	2048	8	SC	BDT	120n	950m	0.0	5.0	.80	2.0A	8.0m	.50	5	CS ROM	PN24ef	FL50			
53	5275-1J	2048	8	SC	BDT	120n	950m	0.0	5.0	.80	2.0A	8.0m	.50	5	CS ROM	PN24ef	ML276			
54	5275-1N	2048	8	SC	BDT	120n	950m	0.0	5.0	.80	2.0A	8.0m	.50	5	CS ROM	PN24ef	ML277			
55	5276-1F	2048	8	SC	BDT	120n	950m	0.0	5.0	.80	2.0s	8.0m	.50	5	CS ROM	PN24ef	FL50			
56	5276-1J	2048	8	SC	BDT	120n	950m	0.0	5.0	.80	2.0s	8.0m	.50	5	CS ROM	PN24ef	ML276			
57	5276-1N	2048	8	SC	BDT	120n	950m	0.0	5.0	.80	2.0s	8.0m	.50	5	CS ROM	PN24ef	ML277			
58	N82S191N	2048	8	SC	BTX	80n	875m	0.0	5.0	.85	2.0s	9.6m	.45	0	PROM	B305	ML135			
59	N82S290F	2048	8	SC	BTX	80n	40u% 850m	0.0	5.0	.85	2.0A	9.6m	.45	0	ROM	B306	ML133			
60	N82S290N	2048	8	SC	BTX	80n	850m	0.0	5.0	.85	2.0A	9.6m	.45	0	ROM	B306	ML135			
61	N82S291F	2048	8	SC	BTX	80n	40u% 900m	0.0	5.0	.85	2.0s	9.6m	.45	0	ROM	B306	ML133			
62	N82S291N	2048	8	SC	BTX	80n	850m	0.0	5.0	.85	2.0s	9.6m	.45	0	ROM	B306	ML135			
63	S82S290N	2048	8	SC	BTX	80n	900m	0.0	5.0	.80	2.0A	9.6m	.50	5	CS ROM	B306	ML135			
64#	SY2316	2048	8	SC	BTX	80n	1.0	0.0	5.0	.80	2.0s	10uA	5.0	0	PROM	B182c	ML256			
65#	SYD3316	2048	8	SC	BTX	80n	1.0	0.0	5.0	.80	2.0s	10uA	5.0	0	PROM	B182c	ML183b			
66#	RC825191N	2048	8	SC	BTX	100n	925m	0.0	5.0	.85	2.0s	9.6m	.50	5	CS PROM	B305	ML135			
67	S82S290F	2048	8	SC	BTX	100n	900m	0.0	5.0	.80	2.0A	9.6m	.50	5	CS ROM	B306	ML133			
68	S82S291F	2048	8	SC	BTX	100n	900m	0.0	5.0	.80	2.0s	9.6m	.50	5	CS ROM	B306	ML133			
69	SCM5316	2048	8	SC	MCG		500m	0.0	5.0	.40	4.0	1.0uA		5	CS PR	B460	ML27			
70#	MD23SC16AE	2048	8	SC	MCX	300n		0.0	5.0	.80	2.0s	10uA		0			PN24p			
71	NC6590L	2048#	8	SC	MNA	800n	405m	5.0	12	.80	3.0s	1.6m	.40	0			B144			
72	2600-1N	2048	8	SC	MNG	300n	575m	0.0	5.0	.80	2.2s	1.6m	.40	0			B94			
73	AM9216CDC	2048	8	SC	MNG	300n	1.0	0.0	12	.80	2.4s	3.2m	.40	0	ROM	B442	ML207p			
74	MCM68A316AC	2048	8	SC	MNG	350n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0			B291			
75	MCM68A316AP	2048	8	SC	MNG	350n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0			B291			
76	MCM68A316EC	2048	8	SC	MNG	350n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0			B291a			
77	MCM68A316EP	2048	8	SC	MNG	350n	650m	0.0	5.0	.80	2.0s	1.6m	.40	0			B291a			
78	MK34000N-3	2048	8	SC	MNG	350n	330m	0.0	5.0	.80	2.0s	3.3m	.40	0			B263			
79	MK34000P-3	2048	8	SC	MNG	350n	330m	0.0	5.0	.80	2.0s	3.3m	.40	0			B263			
80	AM9216BDC	2048	8	SC	MNG	400n	1.0	0.0	12	.80	2.4s	3.2m	.40	0			B442			
81	AM9216BDM	2048	8	SC	MNG	400n	1.0	0.0	12	.80	2.6s	3.2m	.40	5			B442			
82	2616N	2048	8	SC	MNG	450n	575m	0.0	5.0	.80	2.2s	1.6m	.40	0	CS ROM	B302	ML135			
83	2617F	2048	8	SC	MNG	450n	575m	0.0	5.0	.8										

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 | OP | MODE	4 | STRUCTURE CODE	5 | MAX ACCESS TIME (s)	MAX OPER. POWER (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS	
		1 | No. WORDS	2 | BITS PER WORD					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ (V)			LOGIC/BLOCK	OUTLINE
1#	uPD466D	2048	8	SC	MNX	475n	417m	5.0	12	.70	3.0s	1.7m	.50	1	7	B421	ML234
2	EA8316EDL	2048	8	SC	MNX	525n	700m	0.0	5.0	.80	2.2s	2.1m	.45	5	9	B258	ML184b
3	MCM6832C	2048	8	SC	MNX	550n	527m	5.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML126
4	MCM6832P	2048	8	SC	MNX	550n	527m	5.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML38
5	EA2316ADC	2048	8	SC	MNX	600n	1.0	0.0	5.0	2.2	0.8s	100uΔ	.45	0	7	B182	ML133e
6	EA2316ADM	2048	8	SC	MNX	600n	1.0	0.0	5.0	2.2	0.8s	100uΔ	.45	5	9	B182	ML133e
7	EA8316ADC	2048	8	SC	MNX	600n	800m	0.0	5.0	.80	2.2s	1.6m	.40	0	7	B182	ML133e
8	EA8316ADM	2048	8	SC	MNX	600n	800m	0.0	5.0	.80	2.2s	1.6m	.40	5	9	B182	ML133e
9	MCM6590L	2048	8	SC	MNX	800n	405m	3.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML150
10#	FDR151BZ	2048	8	SE	MPX	1.2u	525m	12	5.0	3.5	.60	1.6m	.40	0	7	B94	ML118b
11#	FDR151Z	2048	8	SE	MPX	1.2u	525m	12	5.0	3.5	.60	1.6m	.40	0	7	B94	ML41
12	MCS2316	2048	8	SC	MPX	450n	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	B429	ML381
13	MPS2316	2048	8	SC	MPX	450n	500m	0.0	5.0	.80	2.0s	2.1m	.40	0	7	B429	ML380
14	MCM68317L	2048	8	SC	NNX	500n	650m	0.0	5.0	0.8	2.0s			0	6	B211	ML256
15	MCM68317P	2048	8	SC	NNX	500n	650m	0.0	5.0	0.8	2.0s			0	6	B211	ML133
16	D2716	2048	8	SE		450n	500m	0.0	5.0	.80	2.0	2.1m	.45	0	7	B298	ML359d
17#	MN2716	2048	8	SE		450n	500m	0.0	5.0	.80	2.2			1	7	B297b	ML207m
18#	uPD2716D	2048	8	SE		450n	525m	0.0	5.0	0.8	2.0	10uΔ	5.2	1	7		
19	53RA1681J	2048	8	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	16m	.50	5	C	B333	ML276
20	53RA1681N	2048	8	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	16m	.50	5	C	B333	ML277
21	53RA1683J	2048	8	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	16m	.50	5	C	B333	ML282
22	53RA1683N	2048	8	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	16m	.50	5	C	B333	ML283
23	63RA1681J	2048	8	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	20m	.50	0	7	B333	ML276
24	63RA1681N	2048	8	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	20m	.50	0	7	B333	ML277
25	63RA1683J	2048	8	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	20m	.50	0	7	B333	ML282
26	63RA1683N	2048	8	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	20m	.50	0	7	B333	ML283
27	SN74S455N	2048	8	SE	BTD	45nt	625m	0.0	5.0	.80	2.0Δ	16m	.50	0	7	PN18ba	ML3k
28	53S1680F	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PN24ef	FL50
29	53S1680J	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PN24ef	ML276
30	53S1680N	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PN24ef	ML277
31	53S1681F	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0s	16m	.50	5	C	PN24ef	FL50
32	53S1681J	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0s	16m	.50	5	C	PN24ef	ML276
33	53S1681N	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0s	16m	.50	5	C	PN24ef	ML277
34	63S1680F	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	FL50
35	63S1680J	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	ML276
36	63S1680N	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	ML277
37	63S1681F	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	FL50
38	63S1681J	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	ML276
39	63S1681N	2048	8	SE	BTD	46nt	620mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	ML277
40	53PS1680F	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PN24ef	FL50
41	53PS1680J	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PN24ef	ML276
42	53PS1680N	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0Δ	16m	.50	5	C	PN24ef	ML277
43	53PS1681F	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0s	16m	.50	5	C	PN24ef	FL50
44	53PS1681J	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0s	16m	.50	5	C	PN24ef	ML276
45	53PS1681N	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0s	16m	.50	5	C	PN24ef	ML277
46	63PS1680F	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	FL50
47	63PS1680J	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	ML276
48	63PS1680N	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	ML277
49	63PS1681F	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	FL50
50	63PS1681J	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	ML276
51	63PS1681N	2048	8	SE	BTD	48nt	620mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	ML277
52	SN54S452J	2048	8	SE	BTD	50nt	625m	0.0	5.0	.80	2.0s	12m	.50	5	C	PN24ef	ML30k
53	SN54S453J	2048	8	SE	BTD	50nt	625m	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PN24ef	ML30k
54	SN74S452J	2048	8	SE	BTD	50nt	625m	0.0	5.0	.80	2.0s	12m	.50	0	7	PN24ef	ML30k
55	SN74S452N	2048	8	SE	BTD	50nt	625m	0.0	5.0	.80	2.0s	12m	.50	0	7	PN24ef	ML27f
56	SN74S453J	2048	8	SE	BTD	50nt	625m	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PN24ef	ML30k
57	SN74S453N	2048	8	SE	BTD	50nt	625m	0.0	5.0	.80	2.0Δ	12m	.50	0	7	PN24ef	ML27f
58	HM1-76160-5	2048	8	SE	BTD	60n	900m	0.0	5.0	.80	2.0s	16m	.50	0	7	B395	ML310
59	HM1-76161-5	2048	8	SE	BTD	60n	900m	0.0	5.0	.80	2.0s	16m	.50	0	7	B395	ML310
60	D3636-1	2048	8	SE	BTD	65n	.05m1%	0.0	5.0	.85	2.0s	40uΔ	5.5	0	7	B456	ML359d
61	53LS1680F	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PN24ef	FL50
62	53LS1680J	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PN24ef	ML276
63	53LS1680N	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0Δ	12m	.50	5	C	PN24ef	ML277
64	53LS1681F	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0s	12m	.50	5	C	PN24ef	FL50
65	53LS1681J	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0s	12m	.50	5	C	PN24ef	ML276
66	53LS1681N	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0s	12m	.50	5	C	PN24ef	ML277
67	63LS1680F	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	FL50
68	63LS1680J	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	ML276
69	63LS1680N	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PN24ef	ML277
70	63LS1681F	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	FL50
71	63LS1681J	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	ML276
72	63LS1681N	2048	8	SE	BTD	66nt	335mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PN24ef	ML277
73	MCM7684DC	2048	8	SE	BTD	70n	600m	0.0	5.0	.80	2.0Δ	16m	.45	0	7	B393	ML373
74	MCM7685DC	2048	8	SE	BTD	70n	600m	0.0	5.0	.80	2.0s	16m	.45	0	7	B393	ML373
75	29681DC	2048	8	SE	BTD	80n	900m	0.0	5.0	.80	2.0s	16m	.50	0	7	B398	ML373
76	D3636	2048	8	SE	BTD	80n	.05m1%	0.0	5.0	.85	2.0s	40uΔ	5.5	0	7	B456	ML359d
77	DM87S190J	2048	8	SE	BTD	80n	875m	0.0	5.0	.80	2.0Δ	12m	.45	0	7	B428	ML200
78	DM87S190N	2048	8	SE	BTD	80n	875m	0.0	5.0	.80	2.0Δ	12m	.45	0	7	B428	ML200
79	DM87S191J	2048	8	SE	BTD	80n	875m	0.0	5.0	.80	2.0s	12m	.45	0	7	B428	ML200
80	DM87S191N	2048	8	SE	BTD	80n	875m	0.0	5.0	.80	2.0s	12m	.45	0	7	B428	ML200
81	HM1-76160-2	2048	8	SE	BTD	80n	900m	0.0	5.0	.80	2.0s	16m	.50	5	C	B395	ML310
82	HM9-76160-2	2048	8	SE	BTD	80n	900m	0.0	5.0	.80	2.0s	16m	.50	5	C	B395	FL58
83	MD3636	2048	8														

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 OP 4	5	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS							
		1	2					BITS PER WORD	MODE	STRUCTURE CODE	MAX ACCESS TIME (s)	NEG. (V)	POS. (V)			MAX '0' (V)	MIN '1' (V)	(A)	@ OUT	-	+	LOGIC/BLOCK	OUTLINE
1	MK2716J-8	2048	8	SE	MNG	450n	500m	0.0	5.0	.80	2.0	10uΔ	5.25	0	7	EPROM	PN24dk	ML390					
2▼	MM2716QE	2048	8	SE	MNG	450n	1.5	0.0	5.0	.80	2.0s	10uΔ	5.5	4	8	EPROM	B297	ML378					
3▼	MM2716QM	2048	8	SE	MNG	450n	632m	0.0	5.0	.80	2.0s	2.1m	.45	5	5	EPROM	B297	ML378					
4	TMS2516JL	2048	8	SE	MNG	450n	560m	0.0	5.0	.80	2.2	2.1m	.45	0	7	EPROM	B226a	ML30k					
5	TMS2716JL	2048	8	SE	MNG	450n	714m	5.0	12	.65	2.4s	1.6m	.45	0	7	EPROM	B269	ML30k					
6	TMS2716L	2048	8	SE	MNG	450n	1.0	5.0	12	.65	3.8s	1.6m	.45	0	7	EPROM	B289	ML373					
7	MK2716J-7	2048	8	SE	MNG	490n	500m	0.0	5.0	.80	2.0	10uΔ	5.25	0	7	EPROM	PN24dk	ML390					
8#	MMS2716AS	2048	8	SE	MNG	500nt	500mt	0.0	28	.80	2.2	2.1m	.45	0	7	EPROM	ML378						
9▼#	HN48016P	2048	8	SE	MNX	350n	300m	0.0	5.0	.80	2.0s	10uΔ	5.25	0	7	EAROM	B432	ML288					
10#	HN462716	2048	8	SE	MNX	450n	385m	0.0	5.0	.80	2.0s	1.6m	.40	2	7	EPROM	B297b	ML289					
11▼#	HN462716G	2048	8	SE	MNX	450n	555m	0.0	5.0	.80	2.0s	10uΔ	5.25	0	7	EPROM	B297	ML289					
12	9010-1322	2048	8	SE	MNX	750n	11	24	32					0	6	PROM							
13	IM6316IDG	2048	8	SS	MCG	400nt	500nt	0.0	5.0	-2.0	.80s	1.0uΔ		4	8	CS	B461	ML400					
14	IM6316IJG	2048	8	SS	MCG	400nt	500nt	0.0	5.0	-2.0	.80s	1.0uΔ		4	8	CS	B461	ML401					
15	IM6316MDG	2048	8	SS	MCG	400nt	500nt	0.0	5.0	-2.0	.80s	1.0uΔ		5	5	CS	B461	ML400					
16	IM6316MJG	2048	8	SS	MCG	400nt	500nt	0.0	5.0	-2.0	.80s	1.0uΔ		5	5	CS	B461	ML401					
17▼#	HN462316EP	2048	8	SS	MNG	350n	300m	0.0	5.0	.80	2.0s	10uΔ	2.4	2	7	CSROM	B291a	ML288					
18▼	MK34000J-3	2048	8	SS	MNG	350n	330m	0.0	5.0	0.8	2.0s	10uΔ		0	7	3CS	B263	ML390					
19	KM8657	2048	8	SS	MNA	800n	440m	3	12					0	7	out:3state TTL							
20	RO3-20480	2048	10	SC	MNI	500n	250mt	0.0	5.0					0	7								
21	D2716-1	2048	8	SE	SE	350n	525m	0.0	5.0	.80	2.0	10uΔ	5.25	0	6	EPROM	B231	ML216b					
22	D2716-2	2048	8	SE	SE	390n	525m	0.0	5.0	.80	2.0	10uΔ	5.25	0	6	EPROM	B297a	ML359					
23	D2716-5	2048	8	SE	SE	490n	525m	0.0	5.0	.80	2.0	10uΔ	5.25	0	6	EPROM	B297a	ML359					
24	D2716-6	2048	8	SE	SE	650n	525m	0.0	5.0	.80	2.0	10uΔ	5.25	0	6	EPROM	B297a	ML359					
25	9010-1323	3072	8	SE	MNX	750n	11	24	32					0	6	PROM							
26#	uPD4104C-2	4096	1	SC	MNX	200n	125m	0.0	5.0	.80	2.2s	5.0m	.40	1	8		B423	ML368					
27#	uPD4104D-2	4096	1	SC	MNX	200n	125m	0.0	5.0	.80	2.2s	5.0m	.40	1	8		B423	ML226c					
28#	uPD4104C-1	4096	1	SC	MNX	250n	105m	0.0	5.0	.80	2.2s	5.0m	.40	1	8		B423	ML368					
29#	uPD4104D-1	4096	1	SC	MNX	250n	105m	0.0	5.0	.80	2.2s	5.0m	.40	1	8		B423	ML226c					
30#	uPD4104C	4096	1	SC	MNX	300n	105m	0.0	5.0	.80	2.2s	5.0m	.40	1	8		B423	ML368					
31#	uPD4104D	4096	1	SC	MNX	300n	105m	0.0	5.0	.80	2.2s	5.0m	.40	1	8		B423	ML226c					
32	RO3-16384	4096	4	SC	MNI	1.5u	250m	0.0	5.0	.65	2.2s	1.6m	.45	0	7		B183	ML324					
33	53PS1640J	4096	4	SE	BTD	45nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	5	PROM;Pwr Sw	PN20aa	ML274					
34	53PS1640N	4096	4	SE	BTD	45nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	5	PROM;Pwr Sw	PN20aa	ML275					
35	53PS1641J	4096	4	SE	BTD	45nt	585mt	0.0	5.0	.80	2.0s	16m	.50	5	5	PROM;Pwr Sw	PN20aa	ML274					
36	53PS1641N	4096	4	SE	BTD	45nt	585mt	0.0	5.0	.80	2.0s	16m	.50	5	5	PROM;Pwr Sw	PN20aa	ML275					
37	53RA1641J	4096	4	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	16m	.50	5	5	PROM;Reg	B332	ML378					
38	53RA1641N	4096	4	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	16m	.50	5	5	PROM;Reg	B332	ML378					
39	53RS1641J	4096	4	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	16m	.50	5	5	PROM;Reg	B336	ML378					
40	53RS1641N	4096	4	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	16m	.50	5	5	PROM;Reg	B336	ML378					
41	63PS1640J	4096	4	SE	BTD	45nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN20aa	ML274					
42	63PS1640N	4096	4	SE	BTD	45nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM;Pwr Sw	PN20aa	ML275					
43	63PS1641J	4096	4	SE	BTD	45nt	585mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN20aa	ML274					
44	63PS1641N	4096	4	SE	BTD	45nt	585mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM;Pwr Sw	PN20aa	ML275					
45	63RA1641J	4096	4	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B332	ML378					
46	63RA1641N	4096	4	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B332	ML378					
47	63RS1641J	4096	4	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B336	ML378					
48	63RS1641N	4096	4	SE	BTD	45nt	650mt	0.0	5.0	.80	2.0	24m	.50	0	7	PROM;Reg	B336	ML378					
49	53S1640J	4096	4	SE	BTD	46nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	5	PROM	PN20aa	ML274					
50	53S1640N	4096	4	SE	BTD	46nt	585mt	0.0	5.0	.80	2.0Δ	16m	.50	5	5	PROM	PN20aa	ML275					
51	53S1641J	4096	4	SE	BTD	46nt	585mt	0.0	5.0	.80	2.0s	16m	.50	5	5	PROM	PN20aa	ML274					
52	53S1641N	4096	4	SE	BTD	46nt	585mt	0.0	5.0	.80	2.0s	16m	.50	5	5	PROM	PN20aa	ML275					
53	63S1640J	4096	4	SE	BTD	46nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20aa	ML274					
54	63S1640N	4096	4	SE	BTD	46nt	585mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20aa	ML275					
55	63S1641J	4096	4	SE	BTD	46nt	585mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN20aa	ML274					
56	63S1641N	4096	4	SE	BTD	46nt	585mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN20aa	ML275					
57	63LS1640J	4096	4	SE	BTD	66nt	315mt	0.0	5.0	.80	2.0Δ	12m	.50	5	5	PROM	PN20aa	ML274					
58	63LS1640N	4096	4	SE	BTD	66nt	315mt	0.0	5.0	.80	2.0Δ	12m	.50	5	5	PROM	PN20aa	ML275					
59	63LS1641J	4096	4	SE	BTD	66nt	315mt	0.0	5.0	.80	2.0s	12m	.50	5	5	PROM	PN20aa	ML274					
60	63LS1641N	4096	4	SE	BTD	66nt	315mt	0.0	5.0	.80	2.0s	12m	.50	5	5	PROM	PN20aa	ML275					
61	63LS1640J	4096	4	SE	BTD	66nt	315mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20aa	ML274					
62	63LS1640N	4096	4	SE	BTD	66nt	315mt	0.0	5.0	.80	2.0Δ	16m	.45	0	7	PROM	PN20aa	ML275					
63	63LS1641J	4096	4	SE	BTD	66nt	315mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN20aa	ML274					
64	63LS1641N	4096	4	SE	BTD	66nt	315mt	0.0	5.0	.80	2.0s	16m	.45	0	7	PROM	PN20aa	ML275					
65▼	TMM2332P	4096	8	SC	MNG	350n	550m	0.0	5.0	0.8	2.0	2.0m	0.4	0	7	PROM	PN20aa	ML118e					
66	EA8332ADC	4096	8	SC	MNG	450n	450m	0.0	5.0	0.8	2.0s						B431						
67	EA8332APC	4096	8	SC	MNG	450n	450m	0.0	5.0	0.8	2.0s						B431	ML168					
68	EA8332BDC	4096	8	SC	MNG	450n	450m	0.0	5.0	0.8	2.0s						B431						
69	EA8332BPC	4096	8	SC	MNG	450n	450m	0.0	5.0	0.8	2.0s						B431						
70▼#	M5L2732K-6	4096	8	SC	MNG	550n	400mt	0.0	5.0					0	7	EPROM;Fld Prg		DL378					
71▼	S2332	4096	8	SC	MNX	350n	1.0	0.0	5.0	0.8	2.0s	10uΔ		0	7	25C-OR-Tie		ML310					
72#	M2332	4096	8	SC	MNX	300n	200m	0.0	5.0	.80	2.4			0	7	ROM	B232	ML207m					
73▼	SYC2332-3	4096	8	SC	BTX	300n	1.0	0.0	5.0	.80	2.0s	10uΔ	.40	0	7	PROM	B232	ML256					
74▼	SYC2333-3	4096	8	SC	BTX	300n	1.0	0.0	5.0	.80	2.0s	10uΔ	.40	0	7	PROM	B232a	ML256					
75▼	SYC2332-3	4096	8	SC	BTX	300n	1.0	0.0	5.0	.80	2.0s	10uΔ	.40	0	7	PROM	B232	ML183b					
76▼	SYC2333-3	4096	8	SC	BTX	300n	1.0	0.0	5.0	.80	2.0s	10uΔ	.40	0	7	PROM	B232a	ML183b					
77▼	SYC2332	4096	8	SC	BTX	450n	1.0	0.0	5.0	.80	2.0s	10uΔ	.40	0	7	PROM	B232	ML256					
78▼	SYC2333	4096	8	SC	BTX	450n	1.0	0.0	5.0	.80	2.0s	10uΔ	.40	0	7	PROM							

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)NO.WDS(2)NO.BITS/WD(3)OP.MODE
PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	TYPE No.	ORGANIZATION		3 OP MODE	4 STRUCTURE	5 MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	GENERAL DESCRIPTION	DRAWINGS	
		1 No. WORDS	2 BITS PER WORD					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)			LOGIC/BLOCK	OUTLINE
1	AM9232BDC	4096	8	SC	MNX	450n	1.0	0.0	5.0	.80	2.05	3.2m	.40	7	0	B444	M207n
2	AM9232BDM	4096	8	SC	MNX	450n	1.0	0.0	5.0	.80	2.05	3.2m	.40	5	0	B444	M207n
3	AM9232BPC	4096	8	SC	MNX	450n	1.0	0.0	5.0	.80	2.05	3.2m	.40	7	0	B444	ML310
4	AM9233BCC	4096	8	SC	MNX	450n	1.0	0.0	5.0	.80	2.05	3.2m	.40	7	0	B444a	ML239
5	AM9233BDC	4096	8	SC	MNX	450n	1.0	0.0	5.0	.80	2.05	3.2m	.40	7	0	B444a	M207n
6	AM9233BDM	4096	8	SC	MNX	450n	1.0	0.0	5.0	.80	2.05	3.2m	.40	5	0	B444a	M207n
7	AM9233BPC	4096	8	SC	MNX	450n	1.0	0.0	5.0	.80	2.05	3.2m	.40	7	0	B444a	ML310
8	R2332C	4096	8	SC	MNX	450n	600m	0.0	5.0	.80	2.05	2.1m	.40	0	7	B232	ML256
9	R2332CE	4096	8	SC	MNX	450n	675m	0.0	5.0	.80	2.05	2.1m	.40	4	8	B232	ML256
10	R2332CMT	4096	8	SC	MNX	450n	750m	0.0	5.0	.80	2.05	2.1m	.40	5	0	B232	ML256
11	R2332P	4096	8	SC	MNX	450n	600m	0.0	5.0	.80	2.05	2.1m	.40	0	7	B232	ML88h
12	R2332PE	4096	8	SC	MNX	450n	675m	0.0	5.0	.80	2.05	2.1m	.40	4	8	B232	ML88h
13	S68332	4096	8	SC	MNX	450n	500m	0.0	5.0	.80	2.0	2.1m	.40	0	7	ROM	A463
14#	uPD2332C	4096	8	SC	MNX	450n	550m	0.0	5.0	.80	2.05	2.0m	.45	1	7	B232	ML369
15#	uPD2332D	4096	8	SC	MNX	450n	550m	0.0	5.0	.80	2.05	2.0m	.45	1	7	B232	ML72g
16	CM3200-C	4096	8	SC	MNX	600n	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
17	CM3200-D	4096	8	SC	MNX	600n	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
18	CM3200-P	4096	8	SC	MNX	600n	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
19	MM3200-C	4096	8	SC	MNX	600n	150m	0.0	5.0	.65	2.45	2.1u	.40	5	0	CMOS ROM	B226c
20	CM3200-2C	4096	8	SC	MNX	800n	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
21	CM3200-2D	4096	8	SC	MNX	800n	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
22	CM3200-2P	4096	8	SC	MNX	800n	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
23	MM3200-2C	4096	8	SC	MNX	800n	150m	0.0	5.0	.65	2.45	2.1u	.40	5	0	CMOS ROM	B226c
24	CM3200-3C	4096	8	SC	MNX	1.5u	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
25	CM3200-3D	4096	8	SC	MNX	1.5u	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
26	CM3200-3P	4096	8	SC	MNX	1.5u	105m	0.0	5.0	.65	2.45	2.1u	.40	0	7	CMOS ROM	B226c
27	MM3200-3C	4096	8	SC	MNX	1.5u	150m	0.0	5.0	.65	2.45	2.1u	.40	5	0	CMOS ROM	B226c
28	MCS2332	4096	8	SC	MXX	450n	600m	0.0	5.0	.80	2.05	2.1m	.40	0	7	ROM	B430
29	MPS2332	4096	8	SC	MXX	450n	600m	0.0	5.0	.80	2.05	2.1m	.40	0	7	ROM	B430
30	D2732A	4096	8	SE	SE	250n	750m	0.0	5.0	.80	2.05	10uΔ	5.25	1	7	EPROM	B299
31	D2732	4096	8	SE	SE	450n	750m	0.0	5.0	.80	2.05	2.1m	.45	0	7	EPROM	B299
32#	HN462532	4096	8	SE	SE	450n	858m	0.0	5.0	.80	2.05	10uΔ	.40	0	7	EPROM	B229a
33	D2732-B	4096	8	SE	SE	550n	750m	0.0	5.0	.80	2.05	10uΔ	5.25	1	7	EPROM	B299
34	D2764	4096	8	SE	MNG	250n	750m	0.0	5.0	.65	2.2	10uΔ	5.2	0	7	EPROM	B439
35	MCM25A32C	4096	8	SE	MNG	350n	800m	0.0	5.0	.65	2.2	10uΔ	5.2	0	7	EPROM	B439
36	MCM25A32L	4096	8	SE	MNG	350n	800m	0.0	5.0	.65	2.2	10uΔ	5.2	0	7	EPROM	B439
37#	HN462732	4096	8	SE	MNG	450n	858m	0.0	5.0	.80	2.0	2.1m	.40	0	7	EPROM	ML289
38#	MBM2732	4096	8	SE	MNG	450n	800m	0.0	5.0	.80	2.2	1.6m	.40	0	7	EPROM	ML289
39	MCM2532C	4096	8	SE	MNG	450n	800m	0.0	5.0	.65	2.2	10uΔ	5.2	0	7	EPROM	B439
40	MCM2532L	4096	8	SE	MNG	450n	800m	0.0	5.0	.65	2.2	10uΔ	5.2	0	7	EPROM	B439
41	TMS25132JL	4096	8	SE	MNG	450n	910m	0.0	5.0	.65	2.25	2.1m	.45	0	7	EPROM	B226b
42	TMS2532JL	4096	8	SE	MNG	450n	910m	0.0	5.0	.65	2.25	2.1m	.45	0	7	EPROM	B226b
43	9010-1324	4096	8	SE	MNX	750n	11	24	32	.65	2.25	10uΔ	5.25	0	6	PROM	B226a
44#	NMC2532Q	4096	8	SE	MXX	450n	160m	0.0	5.0	.80	2.05	10uΔ	5.25	0	7	EPROM	B299
45#	NMC2732Q	4096	8	SE	MXX	450n	150m	0.0	5.0	.80	2.05	10uΔ	5.25	0	7	EPROM	B299
46#	HN46332P	4096	8	SS	MNG	350n	650m	0.0	5.0	.80	2.05	10uΔ	2.4	2	7	CSROM	B292
47#	M5L2732K	4096	8	SS	MNG	450n	787m	0.0	5.0	0.8	2.2	2.1m	.45	0	7	EPROM	B299
48#	M58334-XXXP	8192	8	S	MNG	650n	656m	0.0	5.0	.80	2.0	2.2m	.45	0	7	EPROM	B299
49#	TMM2364P	8192	8	S	MNG	250n	220m	0.0	5.0	0.8	2.2	3.2m	.04	0	7		ML199
50	SYC2364	8192	8	S	BTX	450n	500m	0.0	5.0	.80	2.05	10uΔ	.40	0	7		B232
51	SYP2364	8192	8	S	BTX	450n	500m	0.0	5.0	.80	2.05	10uΔ	.40	0	7		B232
52	IM6364MJG	8192	8	S	MCG	300n	500m	0.0	5.0	.80	2.05	10uΔ	.40	0	7		B465
53#	CM6400-3C	8192	8	S	MCX	1.5u	120m	0.0	5.0	.65	2.0	2.1m	.40	0	7		ML401
54#	CM6400-3P	8192	8	S	MCX	1.5u	120m	0.0	5.0	.65	2.0	2.1m	.40	0	7		ML401
55#	M36000-4B1	8192	8	S	MNG	250n	220m	0.0	5.0	.80	2.4	3.3m	.40	0	7		B262
56#	M36000-4D1	8192	8	S	MNG	250n	220m	0.0	5.0	.80	2.4	3.3m	.40	0	7		B262
57#	M36000-4F1	8192	8	S	MNG	250n	220m	0.0	5.0	.80	2.4	3.3m	.40	0	7		B262
58	MKB36000P-80	8192	8	S	MNG	250n	220m	0.0	5.0	.80	2.45	10uΔ		4	8	Out:3 StateTTL	B262
59	KMS36000	8192	8	S	MNG	300n	200m	0.0	5.0	.80	2.4	3.3m	.40	0	7		B262
60#	M36000-5B1	8192	8	S	MNG	300n	220m	0.0	5.0	.80	2.4	3.3m	.40	0	7		B262
61#	M36000-5D1	8192	8	S	MNG	300n	220m	0.0	5.0	.80	2.4	3.3m	.40	0	7		B262
62#	M36000-5F1	8192	8	S	MNG	300n	220m	0.0	5.0	.80	2.4	3.3m	.40	0	7		B262
63	MKB36000P-84	8192	8	S	MNG	300n	220m	0.0	5.0	.80	2.45	10uΔ		5	0		B262
64#	S2364	8192	8	S	MNX	350n	220m	4.75	5.25	0.8	2.0	3.2m	.04	0	7		B262
65#	S68364	8192	8	S	MNX	350n	1.0	0.0	5.0	0.8	2.05	10uΔ		0	7	CS,OR-Tie	ML310
66#	uPD2364C	8192	8	S	MNX	450n	700m	0.0	5.0	0.8	2.05	10uΔ	5.0	1	6		B126
67#	uPD2364D	8192	8	S	MNX	450n	700m	0.0	5.0	0.8	2.05	10uΔ	5.0	1	6		B126
68	N825183F	8192	8	SC	BTX	60n	85u%	0.0	5.0	.85	2.05	40u*	.50	0	7	PROM	B425
69	N825183N	8192	8	SC	BTX	60n	85u%	0.0	5.0	.85	2.05	40u*	.50	0	7	PROM	B425
70#	SYC2364-3	8192	8	SC	BTX	300n	1.0	0.0	5.0	.80	2.05	10uΔ	.40	0	7	PROM	B232b
71#	SYP2364-3	8192	8	SC	BTX	300n	1.0	0.0	5.0	.80	2.05	10uΔ	.40	0	7	PROM	B232b
72	MCM68B364C	8192	8	SC	MNG	250n	300m	0.0	5.0	.80	2.05	3.2m	.40	0	7		B328
73	MCM68B364L	8192	8	SC	MNG	250n	300m	0.0	5.0	.80	2.05	10uΔ	5.5	0	7		B328
74	MCM68B364P	8192	8	SC	MNG	250n	300m	0.0	5.0	.80	2.05	10uΔ	5.5	0	7		B328
75	MK36000N-4	8192	8	SC	MNG	250n	325m	0.0	5.0	.80	2.05	3.3m	.40	0	7		B262
76	MK36000N-5	8192	8	SC	MNG	250n	325m	0.0	5.0	.80	2.05	3.3m	.40	0	7		B262
77	MK36000P-4	8192	8	SC	MNG	250n	200m	0.0	5.0	.80	2.05	2.1m	.45	0	7		B262
78	MK37000J-4	8192	8	SC	MNG	250n	220m	0.0	5.0	.80	2.05	3.3m	.40	0	7		B262a
79	MK37000N-4	8192	8	SC	MNG	250n	220m	0.0	5.0	.80	2.05	3.3m	.40	0	7		B262a
80	MK36000P-5	8192	8	SC	MNG	300n	450m	0.0	5.0	.80	2.05	3.3m	.40	0	7		B262a
81	MK37000J-5	8192	8	SC	MNG	300n	220m	0.0	5.0	.80	2.05	3.3m	.40	0	7		B262a
82	MK37000N-5	8192	8	SC	MNG	300n	220m	0.0	5.0	.80	2.05	3.3m	.40	0	7		B262a
83#	MK37000P-5	8192	8	SC	MNG	300n	220m	0.0									

4. CHARACTER GENERATORS

IN ORDER OF (1)USE CODE(2)No.CHARACTERS
(3)NO.BITS/CHAR(4)STRUCT(5)ACCESS(6)TYPE NO.

LINE No.	TYPE No.	USE CODE	No. CHARACTERS	BITS PER CHAR.	No. OUT-PUTS	STRUC TURE CODE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE	DRAWINGS	
									NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)		LOGIC/ BLOCK	OUTLINE
1#	uPD481D-001		128		8	MNX	150n	700m	0.0	5.0	.80	2.25	2.0m	.40	1 7	C78	ML367
2#	uPD481D-002		128		8	MNX	150n	700m	0.0	5.0	.80	2.25	2.0m	.40	1 7	C78	ML367
3#	uPD482D-001		128		9	MNX	150n	700m	0.0	5.0	.80	2.25	2.0m	.40	1 7	C79	ML367
4#	uPD482D-002		128		9	MNX	150n	700m	0.0	5.0	.80	2.25	2.0m	.40	1 7	C79	ML367
5#	FDR131Z2	DAC	64	35	7	MPX	1.5u	90m†	14	0.0	-9.0	-2.0		0 7	C8	ML41	
6#	RO1-2240	DAR	64	35	5	MPT	500nΔ	250m	25	0.0	-1.5‡	-2.4‡		0 7	C9	ML47	
7#	FDR116Z1	DAR	64	35	5	MPX	850n	90m†	14	0.0	-9.0	-2.0		5 8	C7	ML41	
8#	FDR116Z2	DAR	64	35	5	MPX	850n	90m†	14	0.0	-9.0	-2.0		5 8	C7	ML41	
9#	MK34073N-3	SAA	128	40‡	8	MNG	350n	330m	0.0	5.0	.80	2.0	3.3m	.40	0 7	B295	MLJ
10#	MK34073P-3	SAA	128	40‡	8	MNG	350n	330m	0.0	5.0	.80	2.0	3.3m	.40	0 7	B295	MLJ
11#	uPD474D02	SAC	64	7	9	MNX	315n	704m‡	5.0	12	.80	3.0‡	1.7m	.50	1 7	C63	ML234
12#	uPD473D02	SAC	64	9	7	MNX	315n	704m‡	5.0	12	.80	3.0‡	1.7m	.50	1 7	C62	ML234
13#	uPD473D04	SAC	64	9‡	7	MNX	315n	704m‡	5.0	12	.80	3.0‡	1.7m	.50	1 7	C62	ML234
14	5056J	SAC	64	35	7	BDT	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5 5	C	C52
15	5156J	SAC	64	35	7	BDT	175n	900m	0.0	5.0	.80	2.0Δ	8.0m	.50	5 5	C	C52
16	6056N	SAC	64	35	7	BDT	100n	850m	0.0	5.0	.80	2.0Δ	10m	.50	0 7	C52	ML277
17	6156N	SAC	64	35	7	BDT	100n	900m	0.0	5.0	.80	2.0‡	10m	.50	0 7	C52	ML277
18#	MSM575-01	SAC‡	64	35	7	MCX	1.5u†	2.5m†	0.0	5.0	.80	3.6	1.6m	.40	2 7	C61	ML119h
19#	MSM575-01A	SAC‡	64	35	7	MCX	4.5u	10m	0.0	5.0	.80	3.6	1.6m	.40	2 7	C61	ML258
20#	MSM575-02	SAC‡	64	35	7	MCX	4.5u	10m	0.0	5.0	.80	3.6	1.6m	.40	2 7	C61	ML258
21#	MCS2027	SAC	64	35	7	MPC		450m	12	5.0	.80	3.5	1.6m	.40	2 7	C65	ML324
22	RO5-2240S	SAC	64	35	7	MPX	1.5u	680m	12	5.0	.80	3.5	1.6	.40	0 7	C18	ML135
23	3257-9-7C	SAC	64	35	7	MXX	1.0u	715m	12	5.0	.85	4.0	1.6m	.50	0 7	C77	ML324
24	2516N	SAC	64	48	8	MPX	600n	730m‡	12	5.0	.60	3.4‡	1.6m	.50	0 7	C58	ML276
25	5074J	SAC	64	63	9	BDT	150n	850m	0.0	5.0	.80	2.0Δ	6.0m	.50	5 5	C	C58
26	5174J	SAC	64	63	9	BDT	150n	900m	0.0	5.0	.80	2.0‡	6.0m	.50	5 5	C	C58
27	6074N	SAC	64	63	9	BDT	125n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	0 7	C58	ML277
28	6174N	SAC	64	63	9	BDT	125n	900m	0.0	5.0	.80	2.0‡	8.0m	.50	0 7	C58	ML277
29#	FDR146BZ1	SAC	64	80	10	MPX	725n	300m†	28	0.0	-9.0	-2.0	1.6m	.40	5 8	E13	ML118b
30#	FDR146Z1	SAC	64	80	10	MPX	725n	300m†	28	0.0	-9.0	-2.0	1.6m	.40	5 8	E13	ML41
31	RO5-5184	SAC	64	81	9	MPX	3.5u	250m†	12	5.0	.80	3.5‡	1.6	.40	0 7	C66	ML324
32	5062J	SAC	128	35	7	BDT	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5 5	C	C54
33	5162J	SAC	128	35	7	BDT	175n	900m	0.0	5.0	.80	2.0‡	8.0m	.50	5 5	C	C54
34	6062N	SAC	128	35	7	BDT	100n	850m	0.0	5.0	.80	2.0Δ	10m	.50	0 7	C54	ML277
35	6162N	SAC	128	35	7	BDT	100n	900m	0.0	5.0	.80	2.0‡	10m	.50	0 7	C54	ML277
36	NC6591L#7	SAC%	128	49	7	MNA	800n	405m	5.0	12	.80	3.0	1.6m	.40	0 7	B144	ML30g
37	5073J	SAC	128	63	9	BDT	150n	850m	0.0	5.0	.80	2.0Δ	6.0m	.50	5 5	C	C57
38	5173J	SAC	128	63	9	BDT	150n	900m	0.0	5.0	.80	2.0‡	6.0m	.50	5 5	C	C57
39	6073N	SAC	128	63	9	BDT	125n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	0 7	C57	ML276
40	6173N	SAC	128	63	9	BDT	125n	900m	0.0	5.0	.80	2.0‡	8.0m	.50	0 7	C57	ML277
41	NC6581L	SAC‡	128	63	9	MNA	400n	700m†	3.0	12	.80	3.0	1.6m	.40	0 7	C51	ML30g
42	NC6583L	SAC‡	128	63	9	MNA	400n	700m†	3.0	12	.80	3.0	1.6m	.40	0 7	C51	ML150c
43	MCM6581L	SAC‡	128	64‡	9	MNX	400n	800m	3.0	12	.80	4.0	1.6m	.40	0 7	C51	ML150
44	MCM6581P	SAC‡	128	64‡	9	MNX	400n	800m	3.0	12	.80	4.0	1.6m	.40	0 7	C51	ML39
45	MCM6583L	SAC‡	128	64‡	9	MNX	400n	800m	3.0	12	.80	4.0	1.6m	.40	0 7	C51	ML150
46	MCM6583P	SAC‡	128	64‡	9	MNX	400n	800m	3.0	12	.80	4.0	1.6m	.40	0 7	C51	ML39
47	3260-91-7R	SAR	64	9	7	MXG		560m†	0.0	5.0	.80	4.0	2.4m	.40	0 7	PN24fk	ML103
48	3260-92-7R	SAR	64	9	7	MXG		560m†	0.0	5.0	.80	4.0	2.4m	.40	0 7	PN24fk	ML103
49	5055J	SAR	64	35	5	BDT	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5 5	C	C59
50	5155J	SAR	64	35	5	BDT	175n	900m	0.0	5.0	.80	2.0‡	8.0m	.50	5 5	C	C59
51	6055N	SAR	64	35	5	BDT	100n	850m	0.0	5.0	.80	2.0Δ	10m	.50	0 7	C59	ML279
52	6155N	SAR	64	35	5	BDT	100n	900m	0.0	5.0	.80	2.0‡	10m	.50	0 7	C59	ML279
53	RO3-2513	SAR	64	35	5	MNI	450n	165m	0.0	5.0	.65	2.2‡	1.6m	.45	0 7	C60	ML324
54	3258-9-7K	SAR	64	35	5	MXG	600n	400m†	12	5.0	.85	2.0		0 7	C19	ML57	
55	25131XCM2140	SAR	64	40	5	MPG	500n	730m	12	5.0	.60	3.4‡	1.6m	.40	0 7	C15	ML88f
56	DM76S64J	SAR	64	63	1	BDT	55nΔ†	770m	0.0	5.0	.80	2.0‡	16m	.45	5 5	C	C75
57	DM86S64J	SAR	64	63	1	BDT	45nΔ†	735m	0.0	5.0	.80	2.0‡	16m	.45	0 7	C75	ML127k
58	DM86S64N	SAR	64	63	1	BDT	45nΔ†	735m	0.0	5.0	.80	2.0‡	16m	.45	0 7	C75	ML178
59	DM8678J	SAR	64	63	1	BTX	50n†Δ	725m	0.0	5.0	.80	2.0‡	16m	.45	0 7	C75	ML127f
60	DM8678N	SAR	64	63	1	BTX	50n†Δ	725m	0.0	5.0	.80	2.0‡	16m	.45	0 7	C75	ML178
61	5071J	SAR	64	63	7	BDT	150n	850m	0.0	5.0	.80	2.0Δ	6.0m	.50	5 5	C	C55
62	5171J	SAR	64	63	7	BDT	150n	900m	0.0	5.0	.80	2.0‡	6.0m	.50	5 5	C	C55
63	6071N	SAR	64	63	7	BDT	125n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	0 7	C55	ML277
64	6171N	SAR	64	63	7	BDT	125n	900m	0.0	5.0	.80	2.0‡	8.0m	.50	0 7	C55	ML277
65	N8228ICD162	SAR‡	64	64	4	BTX	70n	850m	0.0	5.0	.85	2.0	1.1m	.50	0 7	B29	ML107
66#	FDR146BZ2	SAR	128	35	10	MPX	725n	300m†	28	0.0	-9.0	-2.0	1.6m	.40	5 8	E13	ML118b
67#	FDR146Z2	SAR	128	35	10	MPX	725n	300m†	28	0.0	-9.0	-2.0	1.6m	.40	5 8	E13	ML41
68	5061J	SAR	128	35	5	BDT	175n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5 5	C	C53
69	5161J	SAR	128	35	5	BDT	175n	900m	0.0	5.0	.80	2.0‡	8.0m	.50	5 5	C	C53
70	6061N	SAR	128	35	5	BDT	100n	850m	0.0	5.0	.80	2.0Δ	10m	.50	0 7	C53	ML277
71	6161N	SAR	128	35	5	BDT	100n	900m	0.0	5.0	.80	2.0‡	10m	.50	0 7	C53	ML277
72	MCM6674L	SAR	128	35	5	MNG	350n	650m	0.0	5.0	.80	2.0	1.6m	.40	0 7	C64	ML370
73	MCM6674P	SAR	128	35	5	MNG	350n	650m	0.0	5.0	.80	2.0	1.6m	.40	0 7	C64	ML285
74#	uPD472D01	SAR‡	128	35	5	MNX	315n	400m†	5.0	12	.80	3.0	1.6m	.40	0 7	C71	ML238
75	DM76S128J	SAR	128	63	1	BDT	55nΔ†	770m	0.0	5.0	.80	2.0‡	16m	.45	5 5	C	C75aa
76	DM86S128J	SAR	128	63	1	BDT	45nΔ†	735m	0.0	5.0	.80	2.0‡	16m	.45	0 7	C75a	ML127k
77	DM86S128N	SAR	128	63	1	BDT	45nΔ†	735m	0.0	5.0	.80	2.0‡	16m	.45	0 7	C75a	ML178
78	5072J	SAR	128	63	7	BDT	150n	850m	0.0	5.0	.80	2.0Δ	6.0m	.50	5 5	C	C56
79	5172J	SAR	128	63	7	BDT	150n	900m	0.0	5.0	.80	2.0‡	6.0m	.50	5 5	C	C56
80	6072N	SAR	128	63	7	BDT	125n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	0 7	C56	ML277
81	6172N	SAR	128	63	7	BDT	125n	900m	0.0	5.0	.80	2.0‡	8.0m	.50	0 7	C56	ML277
82	NC6571L	SAR‡	128	63	7	MNA	500n	600m†	3.0								

4. CHARACTER GENERATORS

IN ORDER OF (1)USE CODE(2)No.CHARACTERS
(3)NO.BITS/CHAR(4)STRUCT(5)ACCESS(6)TYPE NO.

LINE No.	TYPE No.	USE CODE	No. CHARACTERS	BITS PER CHAR.	No. OUTPUTS	STRUCTURE CODE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. RANGE CODE	DRAWINGS		
									NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)		LOGIC/BLOCK	OUTLINE	
1	MCM66790P	SAR#Δ	128	63	7	MNG	350n	440m	0.0	5.0	.80	2.0	1.6m	0	7	C72	ML39	
2	CG4103	SAS#	64	35	7	MNG	1.2k	400m	12	12	1.5	1.1		0	7	C28	ML278	
3▼#	MCH-01	SAS	128	8	7	MNX	450n	1.0	0.0	5.0	.80	2.2s	10uΔ	4.0	2	8	PN24ii	ML14
4	CRT7004A	SAS#	128	77	7	MNG	400nt	500mt	0.0	5.0	.80	2.0		0	7	C81	ML27	
5	CRT7004B	SAS#	128	77	7	MNG	400nt	500mt	0.0	5.0	.80	2.0		0	7	C81	ML27	
6	CRT7004C	SAS#	128	77	7	MNG	400nt	500mt	0.0	5.0	.80	2.0		0	7	C81	ML27	
7#	M200M1AA	SBC	16	64	8	MPX	4.0u	150mt	27	0.0	2.0	9.0	1.0uΔ	20	0	7	B57	ML59
8#	M200M1XX	SBC	16	64	8	MPX	4.0u	150mt	27	0.0	2.0	9.0	1.0u	20	0	7	B57	ML59
9▼#	MSL9661AS	SBS	64	16s	16	BT			0.0	5.0	.80	2.4	10uΔ	4.75	0	7		ML195a
10▼#	MSL9662RS	SBS	64	16	16	BT			0.0	5.0	.80	2.4	10uΔ	4.75	0	7		
11▼#	MSL9663RS	SBS	64	16	16	BT			0.0	5.0	.80	2.4	10uΔ	4.75	0	7		
12▼#	MSL9664RS	SBS	64	16	16	BT			0.0	5.0	.80	2.4	10uΔ	4.75	0	7		
13▼#	MSL9665RS	SBS	64	16	16	BT			0.0	5.0	.80	2.4	10uΔ	4.75	0	7		
14#	uPD473D	SCA#	64	63	7	MNX	315n	400mt	5.0	12	.80	3.0	1.6m	.40	0	7	C62	ML200
15	5292J	SCA	128	81	9	BTD	150n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PN24fi	ML238
16	5293J	SCA	128	81	9	BTD	150n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	PN24fi	ML276
17	6292N	SCA	128	81	9	BTD	125n	850m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	PN24fi	ML277
18	6293N	SCA	128	81	9	BTD	125n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	PN24fi	ML277
19#	uPD474D01	SCC	64	7	9	MNX	315n	704m♦	5.0	12	.80	3.0s	1.7m	.50	1	7	C63	ML234
20#	uPD473D03	SCC	64	9s	7	MNX	315n	704m♦	5.0	12	.80	3.0s	1.7m	.50	1	7	C62	ML234
21	MM4241ABLJ	SCR	64	48	8	MPA	900n	630m	12	5.0	2.0	4.0	1.6m	.40	5	C	C42	ML200
22	MM5241ABLJ	SCR	64	48	8	MPA	900n	630m	12	5.0	2.0	4.0	1.6m	.40	0	7	C42	ML200
23	MM5241ABLJ	SCR	64	48	8	MPA	900n	630m	12	5.0	2.0	4.0	1.6m	.40	0	7	C42	ML200
24#	uPD474D	SCC#	64	63	9	MNX	315n	400mt	5.0	12	.80	3.0	1.6m	.40	0	7	C63	ML238
25	NC6580L	SCR	128	63	9	MNA	400n	700mt	3.0	12	.80	3.0	1.6m	.40	0	7	C51	ML30g
26	MCM6580L	SCR	128	64s	9	MNX	400n	800	3.0	12	.80	4.0	1.6m	.40	0	7	C51	ML150
27	MCM6580P	SCR	128	64s	9	MNX	400n	800m	3.0	12	.80	4.0	1.6m	.40	0	7	C51	ML39
28	3255-9-7K	SCR	16	35	7	MPG	400n	400m	12	5.0	.85	4.0	2.4m	.40	0	7	C17	ML57
29	3256-9-7K	SCR	16	35	7	MPG	400n	400m	12	5.0	.85	4.0	2.4m	.40	0	7	C17	ML57
30#	uPD473D01	SCR	64	9	7	MNX	315n	704m♦	5.0	12	.80	3.0s	1.7m	.50	1	7	C62	ML234
31	25131XCMXXXX#1	SCR	64	35	5	MPG	500n	730m	12	5.0	.60	3.4s	1.6m	.40	0	7	C15	ML88f
32	25131XCMXXXX#2	SCR	64	40	5	MPG	500n	730m	12	5.0	.60	3.4s	1.6m	.40	0	7	C15	ML88f
33	MCM6670L	SCR	128	35	5	MNG	350n	650m	0.0	5.0	.80	2.0	1.6m	.40	0	7	C64	ML370
34	MCM6670P	SCR	128	35	5	MNG	350n	650m	0.0	5.0	.80	2.0	1.6m	.40	0	7	C64	ML265
35	MM52116FDWD	SCR	128	35	8	MNG	450n	500m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	C80	ML184a
36	MM52116FDWN	SCR	128	35	8	MNG	450n	500m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	C80	ML72f
37	5290J	SCR	128	63	7	BTD	150n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	5	C	PN24fi	ML278
38	5291J	SCR	128	63	7	BTD	150n	900m	0.0	5.0	.80	2.0s	8.0m	.50	5	C	PN24fi	ML276
39	6290N	SCR	128	63	7	BTD	125n	850m	0.0	5.0	.80	2.0Δ	8.0m	.50	0	7		ML279
40	6291N	SCR	128	63	7	BTD	125n	900m	0.0	5.0	.80	2.0s	8.0m	.50	0	7		ML277
41	NC6570L	SCR	128	63	7	MNA	500n	600mt	3.0	12	.80	3.0	1.6m	.40	0	7	C50	ML150c
42	MCM6670OC	SCRA	128	63	7	MNG	350n	440m	0.0	5.0	.80	2.0	1.6m	.40	0	7	C72	ML319
43	MCM6670OP	SCRA	128	63	7	MNG	350n	440m	0.0	5.0	.80	2.0	1.6m	.40	0	7	C72	ML39
44	MM52116FDXD	SCR	128	63	8	MNG	450n	500m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	C80	ML184a
45	MM52116FDXN	SCR	128	63	8	MNG	450n	500m	0.0	5.0	.80	2.0s	3.2m	.40	0	7	C80	ML72f
46	MM4240ABZJ	SER	64	40	5	MPX	500n∅	504m∅	12	12	10*	4.0#		5	C	PN24fh	ML133a	
47	MM4240AEJ	SER	64	40	5	MPX	500n∅	504m∅	12	12	10*	4.0#		5	C	C14a	ML133a	
48	MM5240ABZJ	SER	64	40	5	MPX	500n∅	504m∅	12	12	10*	4.0#		2	7		ML183	
49	MM5240AEN	SER	64	40	5	MPX	500n∅	504m∅	12	12	10*	4.0#		2	7		ML183	
50	MM4240AAJ	SHR	64	40	7	MPX	500n∅	504m∅	12	12	10*	4.0#		5	C	C14a	ML133a	
51	MM4240ABUJ	SHR	64	40	7	MPX	500n∅	504m∅	12	12	10*	4.0#		5	C	PN24fh	ML133a	
52	MM5240AAJ	SHR	64	40	7	MPX	500n∅	504m∅	12	12	10*	4.0#		2	7		ML183	
53	MM5240ABUJ	SHR	64	40	7	MPX	500n∅	504m∅	12	12	10*	4.0#		2	7		ML133a	
54#	T154D1A%	SNC	6	40	8	BTX	50n∅	400m♦	0.0	5.0	.90	2.0	10m	.45	0	7	PN16br	ML60
55#	T154D1B%	SNC	6	40	8	BTX	50n∅	400m♦	0.0	5.0	.90	2.0	10m	.45	0	7	PN16br	ML60
56	HEPC3802P-RT	SNS	12	8	8	BTX	45n	240mt	0.0	5.0	.90	2.0	20m	5.25	0	7	C26	ML38
57	MC4039P	SNS	12	8	8	BTX	45n♦	240mt	0.0	5.0	.45%		20m	.45	0	7	C26	ML40
58	MCM66734L	SPR#	128	63	7	MNG	350n	525m	0.0	5.0	.80	2.0	1.6m	.40	0	7	C72	ML150a
59#	MSL9660AS	SXS	64	16	16	BI	2.0u	100m	0.0	7.0	.80	2.4	1.6m	.50	0	7		
60#	MSL9650AS	SXS	64	35	35	BI	2.0u*	100m	0.0	7.0	.80	2.0	1.6m	.50	0	7		
61▼#	MSL9650A	SXS	64	35	35	BT			0.0	5.0	.80	2.0	10uΔ	4.75	0	7		
62▼#	MSL9652A	SXS	64	35	35	BT			0.0	5.0	.80	2.0	10uΔ	4.75	0	7		
63#	MSM3761AS	SXS	128	63	9	MNG	1.0ut	500m	0.0	7.0	.65	2.2	1.6m	.45	2	7		

6. CODE CONVERTERS

IN ORDER OF (1) FROM CODE (2) TO CODE (3) No. WORDS
(4) No. INPUT BITS (5) No. OUTPUT BITS (6) TYPE No.

LINE No.	TYPE No.	CONVERSION CODE		No. WORDS	No. CODE BITS			MOD	STRUCTURE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT CURRENT		OPER. TEMP. RANGE CODE	DRAWINGS		
		1	2		4	5	8					10	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	A		V	LOGIC/BLOCK	OUTLINE
1	MM4221RRJ	1	2	128	7	8	S	MPX	950nØ	204mØ	12	5.0	3.0*	.80#			5	C	B26a	ML133a	
2	MCM6561L#6	1	2	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
3	MCM6561P#6	1	2	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
4	MCM6562L#6	1	2	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
5	MCM6562P#6	1	2	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
6	NC6561L#6	1	2	128*	10	8	S	MNA	350n	600mt	3.0	12	.80	3.0	1.6m	.40	0	7	B121	ML30g	
7	MCM6591L#3	1	2	128*	11	8	S	MNG	800n	405m	3.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML150a	
8	N8224CB180	1	2	256	7	8	S	BTX	50nØ	400mØ	0.0	5.0	.40%		9.6m	.40	0	7	B67		
9	N8204YCB505	1	2	256	8	8	S	BTX	75n	850m	0.0	5.0	.85*	2.0t§	9.6m	.50	0	7	E1a	ML47a	
10	N8205YCB175#1	1	2	512	8	8	S	BTX	75n	850m	0.0	5.0	.85*	2.0t§	9.6m	.50	0	7	E1	ML47a	
11#	FDR131Z1#1	1	2	512	9	8	D	MPX	1.5u	100mt	14	0.0	-9.0	-2.0			0	7	B36	ML41	
12	MCM6561L#2	1	3	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
13	MCM6561P#2	1	3	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
14	MCM6562L#2	1	3	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
15	MCM6562P#2	1	3	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
16	MCM6591L#1	1	3	128*	11	8	S	MNG	800n	405m	3.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML150a	
17	MM4230KP2J	1	3	256	7	8	S	MPX	725nØ	960mØ	12	12	10*	4.0#			5	C	B26	ML133a	
18	MM5230KP2J	1	3	256	7	8	S	MPX	725nØ	960mØ	12	12	10*	4.0#			0	7	B26	ML133a	
19	MM5230KP2N	1	3	256	7	8	S	MPX	725nØ	960mØ	12	12	10*	4.0#			0	7	B26	ML183	
20#	FDR126Z1#1	1	3	256	8	10	D	MPX	1.0u	100mt	14	0.0	-9.0	-2.0			5	8	B35	ML41	
21	MM4230KPJ	1	3	256	7	8	S	MPX	725nØ	960mØ	12	12	10*	4.0#			5	8	B26	ML133a	
22	MM5230KPN	1	3	256	7	8	S	MPX	725nØ	960mØ	12	12	10*	4.0#			0	7	B26	ML183	
23	MM4220AEJ	1	6	128	7	8	S	MPX	650nØ	300mØ	12	12	10*	4.0#			5	7	B26a	ML133a	
24	MM5220AEJ	1	6	128	7	8	S	MPX	650nØ	300mØ	12	12	10*	4.0#			2	7	B26a	ML133a	
25	MM5220AEN	1	6	128	7	8	S	MPX	650nØ	300mØ	12	12	10*	4.0#			2	7	B26a	ML183	
26	MCM6561L#4	1	6	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
27	MCM6561P#4	1	6	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
28	MCM6562L#4	1	6	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
29	MCM6562P#4	1	6	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
30	MCM6591L#4	1	6	128*	11	8	S	MNG	800n	405m	3.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML150a	
31	MM4221RQJ#1	1	11	128	6	8	S	MPX	950nØ	204mØ	12	5.0	3.0*	.80#			5	C	B26a	ML133a	
32	MM5221RQJ#1	1	11	128	6	8	S	MPX	950nØ	204mØ	12	5.0	3.0*	.80#			0	7	B26a	ML133a	
33	MM4221TMJ	1	11	128	6	8	S	MPX	950nØ	204mØ	12	5.0	3.0*	.80#			5	C	B26a	ML133a	
34	MM5221TMJ	1	11	128	6	8	S	MPX	950nØ	204mØ	12	5.0	3.0*	.80#			0	7	B26a	ML133a	
35	MCM6591L#5	2	1	128*	11	8	S	MNG	800n	405m	3.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML150a	
36	MCM6561L#5	2	1	256*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
37	MCM6561P#5	2	1	256*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
38	MCM6562L#5	2	1	256*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
39	MCM6562P#5	2	1	256*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
40	MM4231RP2J	2	1	256	8	8	S	MPX	950n	510mØ	12	5.0	3.0*	.80#			5	C	B26	ML133a	
41	MM5231RP2J	2	1	256	8	8	S	MPX	950n	510mØ	12	5.0	3.0*	.80#			2	7	B26	ML133a	
42	MM5231RP2N	2	1	256	8	8	S	MPX	950n	510mØ	12	5.0	3.0*	.80#			2	7	B26	ML183	
43	N8204YCB504	2	1	256	8	8	S	BTX	75n	850m	0.0	5.0	.85*	2.0t§	9.6m	.50	0	7	E1a	ML47a	
44	N2430YCM0000	2	1	256	9	8	S	MPX	500nt	1.1	12	12	10*	4.0			2	7	B26	ML21b	
45	MM4231RFJ	2	1	256	8	8	S	MPX	950n	510mØ	12	5.0	3.0*	.80#			5	C	B26	ML133a	
46	MM5231RFJ	2	1	256	8	8	S	MPX	950n	510mØ	12	5.0	3.0*	.80#			2	7	B26	ML183	
47	MM5231RPN	2	1	256	8	8	S	MPX	950n	510mØ	12	5.0	3.0*	.80#			2	7	B26	ML183	
48	N8205YCB175#2	2	1	512	8	8	S	BTX	75n	850m	0.0	5.0	.85*	2.0t§	9.6m	.50	0	7	E1	ML47a	
49#	FDR131Z1#2	2	1	512	9	8	D	MPX	1.5u	100mt	14	0.0	-9.0	-2.0			0	7	B36	ML41	
50	MCM6561L#1	3	1	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
51	MCM6561P#1	3	1	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
52	MCM6562L#1	3	1	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
53	MCM6562P#1	3	1	128*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
54	MCM6591L#2	3	1	128*	11	8	S	MNG	800n	405m	3.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML150a	
55#	FDR126Z1#2	3	1	256	8	10	D	MPX	1.0u	100mt	14	0.0	-9.0	-2.0			5	8	B35	ML41	
56#	FLH561-74184	4	5	40	6	6	S	BTX	40nØ	500m	0.0	5.0	.80	2.0	12m	.40	0	7	PN16cx	MLZ	
57#	FLH565-84184	4	5	40	6	6	S	BTX	40nØ	500m	0.0	5.0	.80	2.0	12m	.40	2	8	PN16cx	MLZ	
58	SN54184J	4	5	40	6	6	S	BTX	40nØ	500m	0.0	5.0	.80	2.0Δ	12m	.40	5	C	PN16cw	ML61a	
59	SN54184W	4	5	40	6	6	S	BTX	40nØ	500m	0.0	5.0	.80	2.0Δ	12m	.40	5	C	PN16cw	M0004AC	
60	SN74184J	4	5	40	6	6	S	BTX	40nØ	500m	0.0	5.0	.80	2.0Δ	12m	.40	0	7	PN16cw	ML61a	
61	SN74184N	4	5	40	6	6	S	BTX	40nØ	500m	0.0	5.0	.80	2.0Δ	12m	.40	0	7	PN16cw	ML48	
62#	FLH571-74185A	5	4	64	6	6	S	BTX	40nØ	500m	0.0	5.0	.80	2.0	12m	.40	0	7	PN16cx	MLZ	
63#	FLH575-84185A	5	4	64	6	6	S	BTX	40nØ	500m	0.0	5.0	.80	2.0	12m	.40	2	8	PN16cx	MLZ	
64	SN54185AJ	5	4	64	6	7	S	BTX	40nØ	500m	0.0	5.0	.80	2.0Δ	12m	.40	5	C	PN16cw	ML61a	
65	SN54185AW	5	4	64	6	7	S	BTX	40nØ	500m	0.0	5.0	.80	2.0Δ	12m	.40	5	C	PN16cw	M0004AC	
66	SN74185AJ	5	4	64	6	7	S	BTX	25nt	546m	0.0	5.25	.80	2.0	12m	.40	0	7	PN16cw	ML61a	
67	SN74185AN	5	4	64	6	7	S	BTX	25nt	546m	0.0	5.25	.80	2.0	12m	.40	0	7	PN16cw	ML48	
68	MCM6591L#6	6	1	128*	11	8	S	MNG	800n	405m	3.0	12	.80	3.0s	1.6m	.40	0	7	B144	ML150a	
69	MCM6561L#3	6	1	256*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
70	MCM6561P#3	6	1	256*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
71	MCM6562L#3	6	1	256*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML150a	
72	MCM6562P#3	6	1	256*	8	8	S	MNA	350n	1.0	3.0	12	.40%	3.0	1.6m	.40	0	7	B121	ML39	
73	MM4230B01J	6	1	256	12	8	S	MPX	725nØ	960mØ	12	12	10*	4.0#			5	C	B26	ML133a	
74	MM5230B01J	6	1	256	12	8	S	MPX	725nØ	960mØ	12	12	10*	4.0#			0	7	B26	ML133a	

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS		
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE	
1	SCL4006BC	1	18*	SSS§	6M	MCX	9.0m†	0.0	15			700n	.07m	.40	1.2	5	C	F540	ML328
2	SCL4006BD	1	18*	SSS§	6M	MCX	9.0m†	0.0	15			700n	.07m	.40	1.2	5	C	F540	ML328
3	SCL4006BE	1	18*	SSS§	6M	MCX	9.0m†	0.0	15			700n	.07m	.40	1.2	4	C	F540	ML328
4	SCL4006BF	1	18*	SSS§	6M	MCX	9.0m†	0.0	15			700n	.07m	.40	1.2	5	C	F540	FL28
5	SCL4006BH	1	18*	SSS§	6M	MCX	9.0m†	0.0	15			700n	.07m	.40	1.2	5	C	F540	CHZ
6#	RC54170F	4	4	SSS§	25n∅	BTX	750m†	0.0	5.0	.80	2.0	16m	.40		5	C	A141	ML132	
7#	RC54170P	4	4	SSS§	25n∅	BTX	750m†	0.0	5.0	.80	2.0	16m	.40		5	C	A141	ML61d	
8#	RC54170W	4	4	SSS§	25n∅	BTX	750m†	0.0	5.0	.80	2.0	16m	.40		5	C	A141	FL25	
9#	UPD308C	4	4	1	100k	MX	24	0.0	0.0	-9.0*	-4.0#	1.5u			2	7	F140c	MO001AC	
10	I112	4	1	PPS								55n†			0	7	F220	PLZ	
11	370AJ	4	1	PPS		BDX	608m	0.0	15	6.5	5.0	750n	2.6m	1.8	3	7	F324	ML132a	
12	370AL	4	1	PPS		BDX	768m	0.0	15	6.5	5.0	750n	2.6m	1.8	3	7	F324	ML127j	
13	370BL	4	1	PPS		BDX	768m	0.0	15	6.5	5.0	750n	2.6m	1.8	5	C	F324	ML127j	
14	370CJ	4	1	PPS		BDX	494m	0.0	12	6.5	5.0	750n	2.1m	1.5	3	8	F324	ML132a	
15	370CL	4	1	PPS		BDX	494m	0.0	12	6.5	5.0	750n	2.1m	1.5	3	8	F324	ML127j	
16	370ML	4	1	PPS		BDX	494m	0.0	12	6.5	5.0	750n	2.1m	1.5	5	C	F324	ML127j	
17	SN15370J	4	1	PPS		BDX	405m†	0.0	13.5	5.0	6.5	400n			3	8	F360	ML127j	
18	SN15370N	4	1	PPS		BDX	405m†	0.0	13.5	5.0	6.5	400n			3	8	F360	ML127j	
19	AM25LS2519DC	4	1	PPS		BDT		0.0	5.0	.80	2.0§		4.0m	.40	0	7	F431	ML248	
20	AM25LS2519DM	4	1	PPS		BDT		0.0	5.0	.70	2.0§		4.0m	.40	5	C	F431	ML248	
21	AM25LS2519FM	4	1	PPS		BDT		0.0	5.0	.70	2.0§		4.0m	.40	5	C	F431	FL44	
22	AM25LS2519PC	4	1	PPS		BDT		0.0	5.0	.80	2.0§		4.0m	.40	0	7	F431	ML161a	
23	AM25S08DC	4	1	PPS		BDT	480m†	0.0	5.0	.80	2.0	17n	20m	.50	0	7	F285	ML127k	
24	AM25S08DM	4	1	PPS		BDT	480m†	0.0	5.0	.80	2.0	17n	20m	.50	5	C	F285	ML62c	
25	AM25S08FM	4	1	PPS		BDT	480m†	0.0	5.0	.80	2.0	17n	20m	.50	5	C	F285	FL33b	
26	AM25S08PC	4	1	PPS		BDT	480m†	0.0	5.0	.80	2.0	17n	20m	.50	0	7	F285	ML89a	
27	AM25S09DC	4	1	PPS		BDT	600m†	0.0	5.0	.80	2.0	17n	20m	.50	0	7	F295	ML127k	
28	AM25S09DM	4	1	PPS		BDT	600m†	0.0	5.0	.80	2.0	17n	20m	.50	5	C	F295	ML62c	
29	AM25S09FM	4	1	PPS		BDT	600m†	0.0	5.0	.80	2.0	17n	20m	.50	5	C	F295	FL33b	
30	AM25S09PC	4	1	PPS		BDT	600m†	0.0	5.0	.80	2.0	17n	20m	.50	0	7	F295	ML89a	
31	AM25S10DC	4	1	PPS		BDT	425m†	0.0	5.0	.80	2.0§	17n	20m	.50	0	7	F286	ML127k	
32	AM25S10DM	4	1	PPS		BDT	425m†	0.0	5.0	.80	2.0§	17n	20m	.50	5	C	F286	ML62c	
33	AM25S10FM	4	1	PPS		BDT	425m†	0.0	5.0	.80	2.0§	17n	20m	.50	5	C	F286	FL33b	
34	AM25S10PC	4	1	PPS		BDT	425m†	0.0	5.0	.80	2.0§	17n	20m	.50	0	7	F286	ML89a	
35#	FJ1181-7475	4	1	PPS		BTX	160m†	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F372	ML2m	
36#	FLJ151-7475	4	1	PPS		BTX	265m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F366	ML2k	
37#	FLJ155-8475	4	1	PPS		BTX	265m	0.0	5.0	.80	2.0	40n	16m	.40	2	8	F366	ML2k	
38#	FLJ541-74175	4	1	PPS		BTX	127m	0.0	5.0	.80	2.0	15n§	16m	.40	0	7	F351	ML2k	
39#	FLJ545-84175	4	1	PPS		BTX	127m	0.0	5.0	.80	2.0	15n§	16m	.40	2	8	F351	ML2k	
40#	M53478P	4	1	PPS		BTX	420m	0.0	5.0	.80	2.0	46n	16m	.40	0	7	F273	ML86b	
41	N8275B	4	1	PPS		BTX	265m	0.0	5.0	.40%	2.6§	16n			0	7	F388	MLZ	
42	N8275E	4	1	PPS		BTX	265m	0.0	5.0	.40%	2.6§	16n			0	7	F388	ML61	
43	N8275R	4	1	PPS		BTX	265m	0.0	5.0	.40%	2.6§	16n			0	7	F388	FL25	
44	S8275B	4	1	PPS		BTX	265m	0.0	5.0	.40%	2.6§	16n			5	C	F388	MLZ	
45	S8275E	4	1	PPS		BTX	265m	0.0	5.0	.40%	2.6§	16n			5	C	F388	ML61	
46	S8275R	4	1	PPS		BTX	265m	0.0	5.0	.40%	2.6§	16n			5	C	F388	FL25	
47	SN54278J	4	1	PPS		BTX	400m	0.0	5.0	.80	2.0	46n∅	16m	.40	5	C	F273	ML66a	
48	SN54278W	4	1	PPS		BTX	400m	0.0	5.0	.80	2.0	46n∅	16m	.40	5	C	F273	MO004AA	
49	SN74278J	4	1	PPS		BTX	400m	0.0	5.0	.80	2.0	46n∅	16m	.40	0	7	F273	ML66a	
50	SN74278N	4	1	PPS		BTX	400m	0.0	5.0	.80	2.0	46n∅	16m	.40	0	7	F273	ML7	
51	340194DC	4	1	PPS		MCX	10m†	0.0	10	3.0	7.0	65n∅	1.2m	.50	4	8	F245	ML127s	
52	340194DM	4	1	PPS		MCX	800u†	0.0	10	3.0	7.0	65n∅	1.2m	.50	5	C	F245	ML127s	
53	340194FC	4	1	PPS		MCX	10m†	0.0	10	3.0	7.0	65n∅	1.2m	.50	4	8	F245	FL14g	
54	340194FM	4	1	PPS		MCX	800u†	0.0	10	3.0	7.0	65n∅	1.2m	.50	5	C	F245	FL14g	
55	340194PC	4	1	PPS		MCX	10m†	0.0	10	3.0	7.0	65n∅	1.2m	.50	4	8	F245	ML170	
56	340195DC	4	1	PPS		MCX	10m†	0.0	10	3.0	7.0	65n∅	1.2m	.50	4	8	F192	ML127s	
57	340195DM	4	1	PPS		MCX	800u†	0.0	10	3.0	7.0	65n∅	1.2m	.50	5	C	F192	ML127s	
58	340195FC	4	1	PPS		MCX	10m†	0.0	10	3.0	7.0	65n∅	1.2m	.50	4	8	F192	FL14g	
59	340195FM	4	1	PPS		MCX	800u†	0.0	10	3.0	7.0	65n∅	1.2m	.50	5	C	F192	FL14g	
60	340195PC	4	1	PPS		MCX	10m†	0.0	10	3.0	7.0	65n∅	1.2m	.50	4	8	F192	ML170	
61	CM4042AD	4	1	PPS		MCX	200m∅	0.0	10	0.1%	9.99	300n			5	C	F362	ML157b	
62	CM4042AE	4	1	PPS		MCX	200m∅	0.0	10	0.1%	9.99	400n			4	8	F362	ML157b	
63#	HBC4042AD	4	1	PPS		MCX	20u	0.0	10	0.1%	9.99	75n			5	C	F362	MO001AB	
64#	HBC4042AF	4	1	PPS		MCX	20u	0.0	10	0.1%	9.99	75n			5	C	F362	MO001AB	
65#	HBC4042AK	4	1	PPS		MCX	20u	0.0	10	0.1%	9.99	75n			5	C	F362	MO004AG	
66#	HBF4042AE	4	1	PPS		MCX	200u	0.0	10	0.1%	9.99	75n			4	8	F362	MO001AC	
67#	HBF4042AF	4	1	PPS		MCX	200u	0.0	10	0.1%	9.99	75n			4	8	F362	MO001AB	
68#	HEF4035B	4	1	PPS		MCX	400m∅	0.0	10	3.0	7.0		2.0m	.50	4	8	F437	MLZ	
69#	HEF4076P	4	1	PPS		MCX	400m∅	0.0	10	3.0	7.0		2.0m	.50	4	8	F519	MLZ	
70#	HEF40175P	4	1	PPS		MCX	400m∅	0.0	10	3.0	7.0		2.0m	.50	4	8	F406	MLZ	
71#	HEF40194B	4	1	PPS		MCX	400m∅	0.0	10	3.0	7.0		2.0m	.50	4	8	F438	MLZ	
72#	HEF40195B	4	1	PPS		MCX	400m∅												

7. SHIFT REGISTERS

IN ORDER OF (1)No.BITS/REG(2)No.REGISTERS
(3)OP.CODE(4)MAX W/C FREQ(5)STRUCT(6)TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		BITS PER REGISTER	No. REGS.					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE
1	SN74L95N	4	1	PPS	3.0M∅	BTX	19m†	0.0	5.0	.70	2.0	200n∅	2.0m	.40	0	7	F155a	ML71
2	SN74L99J	4	1	PPS	3.0M∅	BTX	19m†	0.0	5.0	.70	2.0	200n∅	2.0m	.40	0	7	F94	ML61
3	SN74L99N	4	1	PPS	3.0M∅	BTX	19m†	0.0	5.0	.70	2.0	200n∅	2.0m	.40	0	7	F94	ML48
4#	ZN54L95E	4	1	PPS	3.0M∅	BTX	19m†	0.0	5.0	.80	2.0		2.0m	.40	5	C	PN14y	ML71e
5#	ZN54L95J	4	1	PPS	3.0M∅	BTX	19m†	0.0	5.0	.80	2.0		2.0m	.40	5	C	PN14y	ML64f
6#	ZN74L95E	4	1	PPS	3.0M∅	BTX	19m†	0.0	5.0	.80	2.0		2.0m	.40	5	C	PN14y	ML71e
7#	SN74L95J	4	1	PPS	3.0M∅	BTX	19m†	0.0	5.0	.80	2.0		2.0m	.40	0	7	PN14y	ML64f
8	CM4035AD	4	1	PPS	3.0M∅	MCX	6.0m†	0.0	10	.05%	9.95	200n∅	450u	9.5	5	C	F178	ML4g
9	CM4035AF	4	1	PPS	3.0M∅	MCX	6.0m†	0.0	10	.05%	9.95	300n∅	450u	9.5	5	C	F178	ML17
10#	HBC4035AD	4	1	PPS	3.0M∅	MCX	6.0m†	0.0	10	.05%	9.9	200n∅	450u	9.5	5	C	F178	ML127c
11#	HBC4035AF	4	1	PPS	3.0M∅	MCX	6.0m†	0.0	10	.05%	9.9	200n∅	450u	9.5	5	C	F178	ML127c
12#	HBC4035AK	4	1	PPS	3.0M∅	MCX	6.0m†	0.0	10	.05%	9.9	200n∅	450u	9.5	5	C	F178	MO004AG
13	MC14035BAL	4	1	PPS	3.0M∅	MCX	300u∅	0.0	15	4.0	11	190n∅	3.4m	1.5	5	C	F259	ML5
14	MC14035BCL	4	1	PPS	3.0M∅	MCX	1.2m∅	0.0	15	4.0	11	190n∅	3.0m	1.5	4	8	F259	ML5
15	MC14035BCP	4	1	PPS	3.0M∅	MCX	1.2m∅	0.0	15	4.0	11	190n∅	3.0m	1.5	4	8	F259	ML145
16	SCL4035BC	4	1	PPS	4.0M∅	MCA	300u∅	0.0	15	4.0	11	190n∅	3.4m∅	1.5	5	C	F178	ML127t
17	SCL4035BD	4	1	PPS	4.0M∅	MCA	300u∅	0.0	15	4.0	11	190n∅	3.4m∅	1.5	5	C	F178	MO001AB
18	SCL4035BE	4	1	PPS	4.0M∅	MCA	300u∅	0.0	15	4.0	11	190n∅	3.0m∅	1.5	4	8	F178	ML127u
19	SCL4035BF	4	1	PPS	4.0M∅	MCA	300u∅	0.0	15	4.0	11	190n∅	3.4m∅	1.5	5	C	F178	MO004AH
20	SCL4035BH	4	1	PPS	4.0M∅	MCA	300u∅	0.0	15	4.0	11	190n∅	3.4m∅	1.5	5	C	F178	CH∅
21	MSR4	4	1	PPS	5.0M∅	∅	360m	0.0	5.0	.40	3.0				0	7	F78	
22	CD4035AD	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	200n∅	870u	.50	5	C	F178	MO001AB
23	CD4035AE	4	1	PPS	5.0M∅	MCX	14m∅	0.0	10	.05%	9.95	300n∅	590u	.50	4	8	F178	MO001AC
24	CD4035AF	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	200n∅	870u	.50	5	C	F178	MO001AC
25	CD4035AH	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	200n∅	870u	.50	5	C	F178	CH3
26	CD4035AK	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	300n∅	590u	.50	4	8	F178	MO004AG
27	CD4035AY	4	1	PPS	5.0M∅	MCX	1.4m∅	0.0	10	.05%	9.95	300n∅	590u	.50	5	C	F178	MO001AC
28	SCL4035AC	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	200n∅	450u	9.5	5	C	F178	ML4g
29	SCL4035AD	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	200n∅	450u	9.5	5	C	F178	ML62a
30	SCL4035AE	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	200n∅	450u	9.5	4	8	F178	ML89
31	SCL4035AF	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	200n∅	450u	9.5	5	C	F178	FL23
32	SCL4035AH	4	1	PPS	5.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	200n∅	450u	9.5	5	C	F178	CH∅
33#	SCL4035AJ	4	1	PPS	5.0M∅	MCX	200m∅	0.0	10	.30	.70	300n	590u	.50	4	8	F178	MO001AC
34	MC14076BAL	4	1	PPS	6.0M∅	MCX	300u∅	0.0	15	4.0	11	180n∅	3.4m	1.5	5	C	F329	ML5
35	MC14076BCL	4	1	PPS	6.0M∅	MCX	1.2m∅	0.0	15	4.0	11	180n∅	3.0m	1.5	4	8	F329	ML5
36	MC14076BCP	4	1	PPS	6.0M∅	MCX	1.2m∅	0.0	15	4.0	11	180n∅	3.0m	1.5	4	8	F329	ML145
37	MC14194BAL	4	1	PPS	6.0M∅	MCX	300u∅	0.0	15	4.0	11	220n∅	3.4m	1.5	5	C	F245	ML157a
38	MC14194BCL	4	1	PPS	6.0M∅	MCX	1.2m∅	0.0	15	4.0	11	220n∅	3.0m	1.5	4	8	F245	ML157a
39	MC14194BCP	4	1	PPS	6.0M∅	MCX	1.2m∅	0.0	15	4.0	11	220n∅	3.0m	1.5	4	8	F245	ML145
40	MC14175BAL	4	1	PPS	6.5M∅	MCX	300u∅	0.0	15	4.0	11	150n∅	3.4m	1.5	5	C	F398	ML157a
41	MC14175BCL	4	1	PPS	6.5M∅	MCX	1.2m∅	0.0	15	4.0	11	150n∅	3.0m	1.5	4	8	F398	ML157a
42	MC14175BCP	4	1	PPS	6.5M∅	MCX	1.2m∅	0.0	15	4.0	11	150n∅	3.0m	1.5	4	8	F398	ML145
43	SCL4076BC	4	1	PPS	8.0M∅	MCA	300u∅	0.0	15	4.0	11	90n∅	3.4m∅	1.5	5	C	F329	ML127t
44	SCL4076BD	4	1	PPS	8.0M∅	MCA	300u∅	0.0	15	4.0	11	90n∅	3.4m∅	1.5	5	C	F329	MO001AB
45	SCL4076BE	4	1	PPS	8.0M∅	MCA	300u∅	0.0	15	4.0	11	90n∅	3.0m∅	1.5	4	8	F329	ML127u
46	SCL4076BF	4	1	PPS	8.0M∅	MCA	300u∅	0.0	15	4.0	11	90n∅	3.4m∅	1.5	5	C	F329	MO004AH
47	SCL4076BH	4	1	PPS	8.0M∅	MCA	300u∅	0.0	15	4.0	11	90n∅	3.4m∅	1.5	5	C	F329	CH∅
48	CD4076BD	4	1	PPS	8.0M∅	MCX	500m∅	0.0	15	4.0	11	180n	3.4m∅	1.5	5	C	F329	MO001AB
49	CD4076BE	4	1	PPS	8.0M∅	MCX	500m∅	0.0	15	4.0	11	180n	3.4m∅	1.5	5	C	F329	MO001AC
50	CD4076BF	4	1	PPS	8.0M∅	MCX	500m∅	0.0	15	4.0	11	180n	3.4m∅	1.5	5	C	F329	MO001AC
51	CD4076BH	4	1	PPS	8.0M∅	MCX	500m∅	0.0	15	4.0	11	180n	3.4m∅	1.5	5	C	F329	CH9
52#	HCC4076BD	4	1	PPS	8.0M∅	MCX	200m∅	0.0	15	4.0	11	180n	3.4m	1.5	5	C	F329	ML1e
53#	HCC4076BF	4	1	PPS	8.0M∅	MCX	200m∅	0.0	15	4.0	11	180n	3.4m	1.5	5	C	F329	ML127c
54#	HCC4076BK	4	1	PPS	8.0M∅	MCX	200m∅	0.0	15	4.0	11	180n	3.4m	1.5	5	C	F329	FL31
55#	HCF4076BE	4	1	PPS	8.0M∅	MCX	200m∅	0.0	15	4.0	11	180n	3.4m	1.5	4	8	F329	ML236
56#	HCF4076BF	4	1	PPS	8.0M∅	MCX	200m∅	0.0	15	4.0	11	180n	3.4m	1.5	4	8	F329	ML127c
57	93L00DC	4	1	PPS	10M*∅	BTX	115m	0.0	5.0	.70	2.0	60n	8.0m	.30	0	7	F2	ML15a
58	93L00DM	4	1	PPS	10M*∅	BTX	115m	0.0	5.0	.70	2.0	60n	4.8m	.30	5	C	F2	FL14
59	93L00FC	4	1	PPS	10M*∅	BTX	115m	0.0	5.0	.70	2.0	60n	8.0m	.30	0	7	F2	FL14
60	93L00FM	4	1	PPS	10M*∅	BTX	115m	0.0	5.0	.70	2.0	60n	4.8m	.30	5	C	F2	FL14
61	93L00PC	4	1	PPS	10M*∅	BTX	115m	0.0	5.0	.70	2.0	60n	8.0m	.30	0	7	F2	ML170
62	AM93L00DC	4	1	PPS	10M1∅	BTX	120m∅	0.0	5.0	.70	2.0	75n∅	4.9m	.30	0	7	F2	ML127d
63	AM93L00DM	4	1	PPS	10M1∅	BTX	126m∅	0.0	5.0	.70	2.0	75n∅	4.9m	.30	5	C	F2	ML62c
64	AM93L00FM	4	1	PPS	10M1∅	BTX	120m∅	0.0	5.0	.70	2.0	75n∅	4.9m	.30	0	7	F2	FL33b
65	AM93L00PC	4	1	PPS	10M1∅	BTX	115m	0.0	5.0	.70	2.0	75n∅	4.9m	.30	0	7	F2	ML89a
66#	FLJ231-7494	4	1	PPS	10M	BTX	305m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F467	ML∅
67#	FLJ235-8494	4	1	PPS	10M	BTX	305m	0.0	5.0	.80	2.0	40n	16m	.40	2	8	F467	ML∅
68	M204	4	1	PPS	10M	BTX	200m			.40	2.0	35n	16m	.40	0	7	F40	ML127b
69	MC7496L	4	1	PPS	10M	BTX	240m†	0.0	5.0	.40%	2.4	40n	16m	.40	0	7	F92	MO001AB
70	N7494N	4	1	PPS	10M∅	BTX	290m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F124	ML85
71	SP3271B	4	1	PPS	10M∅	BTX	450m†	0.0	5.0	.90%	2.1	60n∅	15m	.40	4	8	F410	ML157e
72	4035BDC	4	1	PPS	10M∅	MCX	9.0m∅	0.0	15	4.0	11	180n	4.5m	1.5	5	C	F410	ML157e
73	4035BDM	4	1	PPS	10M∅	MCX	9.0m∅	0.0	15	4.0	11	180n	4.5m	1.5	4	8	F410	FL14j
74	4035BFC	4	1	PPS	10M∅	MCX	9.0m∅	0.0	15	4.0	11	180n	4.5m	1.5	5	C	F410	FL14j
75	4035BFM	4	1	PPS	10M∅	MCX	9.0m∅	0.0	15	4.0	11	180n	4.5m	1.5	5	C	F410	FL14j
76	4035BPC	4	1	PPS	10M∅	MCX	9.0m∅	0.0	15	4.0	11	180n	4.5m	1.5	4	8	F485	ML170
77	40																	

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		3 OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS		
		1 BITS PER REGISTER	2 No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE	
1	JANM38510/15901CFA	4	1	PPS	15M	BTX	473mW	0.0	5.0	.80	2.0	53n	9.6m	.40		5	C	F37	FL31
2	JANM38510/15901CFB	4	1	PPS	15M	BTX	473mW	0.0	5.0	.80	2.0	53n	9.6m	.40		5	C	F37	FL31
3	N8270A	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124b	ML86
4	N8270F	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124b	ML93b
5	N8270N	4	1	PPS	15M	BTX	246mW	0.0	5.0	.80	2.0	20n	11m	.40		0	7	F124b	ML86
6	N8270W	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		0	7	F124	FL24
7	N8271B	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		0	7	F124a	ML132
8	N8271F	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		0	7	F124a	ML60a
9	N8271N	4	1	PPS	15M	BTX	341mW	0.0	5.0	.80	2.0	20n	11m	.40		0	7	F124a	MO001AE
10	N8271W	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		0	7	F124a	FL25
11	N9300B	4	1	PPS	15M*	BTX	300mW	0.0	5.0	.85	1.8	45n	600u	.45		0	7	F2	ML132
12	N9300E	4	1	PPS	15M*	BTX	300mW	0.0	5.0	.85	1.8	45n	600u	.45		0	7	F2	FL25
13	N74178A	4	1	PPS	15M*	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		0	7	F124b	ML86
14	N74178F	4	1	PPS	15M*	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		0	7	F124b	ML93b
15	N74179B	4	1	PPS	15M*	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		0	7	F124a	ML132
16	N74179F	4	1	PPS	15M*	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		0	7	F124a	ML127m
17#	RC8270A	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124b	ML86
18#	RC8270F	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124b	ML93b
19#	RC8270W	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124b	FL24
20#	RC8271B	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124a	ML132
21#	RC8271F	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124a	ML60a
22#	RC8271W	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124a	FL25
23#	RC9300B	4	1	PPS	15M*	BTX	300mW	0.0	5.0	.85	1.8	45n	600u	.45		0	7	F2	ML132
24#	RC54178A	4	1	PPS	15M*	BTX	247mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124b	ML86
25#	RC54178F	4	1	PPS	15M*	BTX	247mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124b	ML93b
26#	RC54178W	4	1	PPS	15M*	BTX	247mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124a	FL24
27#	RC54179B	4	1	PPS	15M*	BTX	344mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124a	ML132
28#	RC54179F	4	1	PPS	15M*	BTX	344mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124a	ML127m
29#	RC54179W	4	1	PPS	15M*	BTX	344mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124a	FL25
30	S8270A	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124b	ML86
31	S8270F	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124b	ML93b
32	S8270W	4	1	PPS	15M	BTX	247mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124b	FL24
33	S8271B	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124a	ML132
34	S8271F	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124a	ML60a
35	S8271W	4	1	PPS	15M	BTX	344mW	0.0	5.0	.40	2.6	40n	11m	.40		5	C	F124a	FL25
36	S9300B	4	1	PPS	15M*	BTX	300mW	0.0	5.0	.85	1.8	45n	600u	.45		0	7	F2	ML132
37	S9300E	4	1	PPS	15M*	BTX	300mW	0.0	5.0	.85	1.8	45n	600u	.45		0	7	F2	FL25
38	S54178A	4	1	PPS	15M*	BTX	247mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124b	ML86
39	S54178F	4	1	PPS	15M*	BTX	247mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124b	ML93b
40	S54178W	4	1	PPS	15M*	BTX	247mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124a	FL24
41	S54179B	4	1	PPS	15M*	BTX	344mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124a	ML132
42	S54179F	4	1	PPS	15M*	BTX	344mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124a	ML127m
43	S54179W	4	1	PPS	15M*	BTX	344mW	0.0	5.0	.40	2.6	40n	11n	.40		5	C	F124a	FL25
44	T101	4	1	PPS	15M	BTX	700mW	0.0	5.0	0.0	5.0	15n						F379	PLZ
45	T101	4	1	PPS	15M	BTX	740mW	0.0	5.0	0.0	5.0	15n						F379	PLZ
46#	FLJ1161-7490	4	1	PPS	16M	BTX	210m	0.0	15	4.5	7.5	18n	18m	1.7		0	7	F321	ML89c
47#	FLJ1165-8490	4	1	PPS	16M	BTX	210m	0.0	15	4.5	7.5	18n	18m	1.7		2	8	F321	ML89c
48	JANM38510/00901BAA	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL21a
49	JANM38510/00901BAB	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL21a
50	JANM38510/00901BCA	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F155	ML143
51	JANM38510/00901BCB	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F155	ML143
52	JANM38510/00901BCD	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL22
53	JANM38510/00901BDA	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL22
54	JANM38510/00901BDB	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL21a
55	JANM38510/00901CAA	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL21a
56	JANM38510/00901CAB	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL21a
57	JANM38510/00901CCA	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F155	ML143
58	JANM38510/00901CCB	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F155	ML143
59	JANM38510/00901CDA	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL22
60	JANM38510/00901CDB	4	1	PPS	16M	BTX	422mW	0.0	5.0	.80	2.0	49n	16m	.40		5	C	F36	FL22
61	CD4035BD	4	1	PPS	16M	MCX	500mW	0.0	15	4.0	11	80n	6.8m	1.5		5	C	F509	MO001AE
62	CD4035BE	4	1	PPS	16M	MCX	500mW	0.0	15	4.0	11	80n	6.8m	1.5		4	8	F509	MO001AC
63	CD4035BF	4	1	PPS	16M	MCX	500mW	0.0	15	4.0	11	80n	6.8m	1.5		5	C	F509	MO001AC
64#	HCC4035BD	4	1	PPS	16M	MCX	500mW	0.0	15	4.0	11	80n	6.8m	1.5		5	C	F509	MO01AE
65#	HCC4035BE	4	1	PPS	16M	MCX	500mW	0.0	15	4.0	11	80n	6.8m	1.5		5	C	F509	MO01AC
66#	HCC4035BF	4	1	PPS	16M	MCX	500mW	0.0	15	4.0	11	80n	6.8m	1.5		5	C	F509	MO04AG
67#	HCF4035BD	4	1	PPS	16M	MCX	500mW	0.0	15	4.0	11								

7. SHIFT REGISTERS

IN ORDER OF (1)No.BITS/REG(2)No.REGISTERS
(3)OP.CODE(4)MAX W/C FREQ(5)STRUCT(6)TYPE No

LINE No.	6 TYPE No.	ORGANIZATION		3 OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUC TURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		1 BITS PER REGISTER	2 No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE
1	JANM38510/00905CEB	4	1	PPS	18M	BTX	360m	0.0	5.0	.80	2.0	48n	16m	.40	5	C	F132	ML142
2	JANM38510/00905CFA	4	1	PPS	18M	BTX	360m	0.0	5.0	.80	2.0	48n	16m	.40	5	C	F132	FL31
3	JANM38510/00905CFB	4	1	PPS	18M	BTX	360m	0.0	5.0	.80	2.0	48n	16m	.40	5	C	F132	FL31
4#	HEF4035BD	4	1	PPS	18M*	MCX	400m	0.0	15	4.0	11	100n	3.0m	1.5	4	8	F496	ML127x
5#	HEF4035BP	4	1	PPS	18M*	MCX	400m	0.0	15	4.0	11	100n	3.0m	1.5	4	8	F496	ML89j
6	4076BDC	4	1	PPS	19M	MCX	9.0m	0.0	15	4.0	11	25n	4.5m	1.5	4	8	F329	ML157e
7	4076BDM	4	1	PPS	19M	MCX	9.0m	0.0	15	4.0	11	25n	4.5m	1.5	5	C	F329	ML157e
8	4076BFC	4	1	PPS	19M	MCX	9.0m	0.0	15	4.0	11	25n	4.5m	1.5	4	8	F329	FL14j
9	4076BFM	4	1	PPS	19M	MCX	9.0m	0.0	15	4.0	11	25n	4.5m	1.5	5	C	F329	FL14j
10	4076BPC	4	1	PPS	19M	MCX	9.0m	0.0	15	4.0	11	25n	4.5m	1.5	4	8	F329	ML170
11#	HEF40195BD	4	1	PPS	19M*	MCX	400m	0.0	15	4.0	11	85n	3.0m	1.5	4	8	F500	ML127x
12#	HEF40195BP	4	1	PPS	19M*	MCX	400m	0.0	15	4.0	11	85n	3.0m	1.5	4	8	F500	ML127x
13	54LS95BJ	4	1	PPS	20M	BTD	105m	0.0	5.0	.70	2.0	40n	4.0m	.40	5	C	F402	ML63c
14	74LS95BJ	4	1	PPS	20M	BTD	105m	0.0	5.0	.80	2.0	40n	4.0m	.40	0	7	F402	ML63c
15	74LS95BW	4	1	PPS	20M	BTD	105m	0.0	5.0	.80	2.0	40n	4.0m	.40	0	7	F402	FL11c
16	JANM38510/30601BEA	4	1	PPS	20M*	BTD	127m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F245	ML143
17	JANM38510/30601BEB	4	1	PPS	20M*	BTD	127m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F245	ML143
18	JANM38510/30601BFA	4	1	PPS	20M*	BTD	127m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F245	FL31
19	JANM38510/30601BFB	4	1	PPS	20M*	BTD	127m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F245	FL31
20	JANM38510/30601CEA	4	1	PPS	20M*	BTD	127m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F245	ML143
21	JANM38510/30601CEB	4	1	PPS	20M*	BTD	127m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F245	ML143
22	JANM38510/30601CFA	4	1	PPS	20M*	BTD	127m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F245	FL31
23	JANM38510/30601CFB	4	1	PPS	20M*	BTD	127m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F245	FL31
24	JANM38510/30603BCA	4	1	PPS	20M*	BTD	116m	0.0	5.5	.70	2.0	56n	4.0m	.40	5	C	F402a	ML142
25	JANM38510/30603BCB	4	1	PPS	20M*	BTD	116m	0.0	5.5	.70	2.0	56n	4.0m	.40	5	C	F402a	ML142
26	JANM38510/30603BDA	4	1	PPS	20M*	BTD	116m	0.0	5.5	.70	2.0	56n	4.0m	.40	5	C	F402a	FL22
27	JANM38510/30603BDB	4	1	PPS	20M*	BTD	116m	0.0	5.5	.70	2.0	56n	4.0m	.40	5	C	F402a	FL22
28	JANM38510/30603CCA	4	1	PPS	20M*	BTD	116m	0.0	5.5	.70	2.0	56n	4.0m	.40	5	C	F402a	ML142
29	JANM38510/30603CCB	4	1	PPS	20M*	BTD	116m	0.0	5.5	.70	2.0	56n	4.0m	.40	5	C	F402a	ML142
30	JANM38510/30603CDA	4	1	PPS	20M*	BTD	116m	0.0	5.5	.70	2.0	56n	4.0m	.40	5	C	F402a	FL22
31	JANM38510/30603CDB	4	1	PPS	20M*	BTD	116m	0.0	5.5	.70	2.0	56n	4.0m	.40	5	C	F402a	FL22
32	JANM38510/30607BEA	4	1	PPS	20M*	BTD	160m	0.0	5.5	.70	2.0	56n	12m	.40	5	C	F283	ML143
33	JANM38510/30607BEB	4	1	PPS	20M*	BTD	160m	0.0	5.5	.70	2.0	56n	12m	.40	5	C	F283	ML143
34	JANM38510/30607BFA	4	1	PPS	20M*	BTD	160m	0.0	5.5	.70	2.0	56n	12m	.40	5	C	F283	FL31
35	JANM38510/30607BFB	4	1	PPS	20M*	BTD	160m	0.0	5.5	.70	2.0	56n	12m	.40	5	C	F283	FL31
36	JANM38510/30607CEA	4	1	PPS	20M*	BTD	160m	0.0	5.5	.70	2.0	56n	12m	.40	5	C	F283	ML143
37	JANM38510/30607CEB	4	1	PPS	20M*	BTD	160m	0.0	5.5	.70	2.0	56n	12m	.40	5	C	F283	ML143
38	JANM38510/30607CFA	4	1	PPS	20M*	BTD	160m	0.0	5.5	.70	2.0	56n	12m	.40	5	C	F283	FL31
39	JANM38510/30607CFB	4	1	PPS	20M*	BTD	160m	0.0	5.5	.70	2.0	56n	12m	.40	5	C	F283	FL31
40#	M53295P	4	1	PPS	20M*	BTX	82m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F155	ML86b
41	SM61	4	1	PPS	20M	BTX	40m	0.0	5.0	.80	2.0	40n	250uA	5.5	6	k	F250	ML9
42	SM63	4	1	PPS	20M	BTX	40m	0.0	5.0	.80	2.0	35n	250uA	5.5	6	k	F250	ML9
43	SM71	4	1	PPS	20M	BTX	40m	0.0	5.0	.80	2.0	40n	250uA	5.5	6	k	F250a	ML9
44	SM73	4	1	PPS	20M	BTX	40m	0.0	5.0	.80	2.0	40n	250uA	5.5	6	k	F250a	ML9
45#	T150B1	4	1	PPS	20M	BTX	300m	0.0	5.0	.85	1.6	45n	9.6m	.45	0	7	F2	ML60
46#	T150D1	4	1	PPS	20M	BTX	300m	0.0	5.0	.85	1.6	45n	9.6m	.45	0	7	F2	ML94
47#	T150D2	4	1	PPS	20M	BTX	300m	0.0	5.0	.90	1.4	45n	9.6m	.40	5	C	F2	ML94
48#	HEF40175BD	4	1	PPS	20M*	MCX	400m	0.0	15	4.0	11	50n	3.0m	1.5	4	8	F398	ML127x
49#	HEF40175BP	4	1	PPS	20M*	MCX	400m	0.0	15	4.0	11	50n	3.0m	1.5	4	8	PN16fm	ML89j
50#	HEF40194BD	4	1	PPS	20M*	MCX	400m	0.0	15	4.0	11	60n	3.0m	1.5	4	8	PN16fm	ML127x
51#	HEF40194BP	4	1	PPS	20M*	MCX	400m	0.0	15	4.0	11	60n	3.0m	1.5	4	8	PN16fm	ML89j
52	MC7270L	4	1	PPS	22M*	BTX	180m	0.0	5.0	.40%	2.6	40n	12m	.40	0	7	F235	TO116
53	MC7270P	4	1	PPS	22M*	BTX	180m	0.0	5.0	.40%	2.6	40n	12m	.40	0	7	F235	ML124
54	MC7271L	4	1	PPS	22M*	BTX	180m	0.0	5.0	.40%	2.6	40n	12m	.40	0	7	F235a	ML60b
55	MC7271P	4	1	PPS	22M*	BTX	180m	0.0	5.0	.40%	2.6	40n	12m	.40	0	7	F235a	ML5b
56	MC8270L	4	1	PPS	22M*	BTX	180m	0.0	5.0	.40%	2.6	40n	12m	.40	5	C	F235	TO116
57	MC8271L	4	1	PPS	22M*	BTX	180m	0.0	5.0	.40%	2.6	40n	12m	.40	5	C	F235a	ML60b
58	JANM38510/00906BEA	4	1	PPS	24M	BTX	372m	0.0	5.0	.80	2.0	34n	16m	.40	5	C	F191	ML142
59	JANM38510/00906BEB	4	1	PPS	24M	BTX	372m	0.0	5.0	.80	2.0	34n	16m	.40	5	C	F191	ML142
60	JANM38510/00906BFA	4	1	PPS	24M	BTX	372m	0.0	5.0	.80	2.0	34n	16m	.40	5	C	F191	FL31
61	JANM38510/00906BFB	4	1	PPS	24M	BTX	372m	0.0	5.0	.80	2.0	34n	16m	.40	5	C	F191	FL31
62	JANM38510/00906CEA	4	1	PPS	24M	BTX	372m	0.0	5.0	.80	2.0	34n	16m	.40	5	C	F191	ML142
63	JANM38510/00906CEB	4	1	PPS	24M	BTX	372m	0.0	5.0	.80	2.0	34n	16m	.40	5	C	F191	ML142
64	JANM38510/00906CFA	4	1	PPS	24M	BTX	372m	0.0	5.0	.80	2.0	34n	16m	.40	5	C	F191	FL31
65	JANM38510/00906CFB	4	1	PPS	24M	BTX	372m	0.0	5.0	.80	2.0	34n	16m	.40	5	C	F191	FL31
66	54LS395AJ	4	1	PPS	25M	BTX	145m	0.0	5.0	.70	2.0	35n	12m	.40	5	C	F191	FL31
67	54LS395AW	4	1	PPS	25M	BTX	145m	0.0	5.0	.70	2.0	35n	12m	.40	5	C	F283	ML
68	JANM38510/30602BEA	4	1	PPS	25M*	BTD	116m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F108a	ML143
69	JANM38510/30602BEB	4	1	PPS	25M*	BTD	116m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F108a	ML143
70	JANM38510/30602BFA	4	1	PPS	25M*	BTD	116m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F108a	FL31
71	JANM38510/30602BFB	4	1	PPS	25M*	BTD	116m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F108a	FL31

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		3 OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUC TURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		1 BITS PER REGISTER	2 No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE
1	JANM38510/30602CEA	4	1	PPS	25M*	BTD	116m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F108a	ML143
2	JANM38510/30602CEB	4	1	PPS	25M*	BTD	116m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F108a	ML143
3	JANM38510/30602CFA	4	1	PPS	25M*	BTD	116m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F108a	FL31
4	JANM38510/30602CFB	4	1	PPS	25M*	BTD	116m	0.0	5.5	.70	2.0	53n	4.0m	.40	5	C	F108a	FL31
5	N74LS95BF	4	1	PPS	25M∅	BTD	105m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F402	ML19f
6	N74LS95BF	4	1	PPS	25M∅	BTD	105m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F402	ML86
7	N74LS194AF	4	1	PPS	25M∅	BTD	115m	0.0	5.0	.80	2.0	22n	16m	.40	0	7	F245	ML127r
8	N74LS194AN	4	1	PPS	25M∅	BTD	115m	0.0	5.0	.80	2.0	22n	16m	.40	0	7	F245	MO001AE
9	N74LS298F	4	1	PPS	25M∅	BTD	105m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F535	ML127r
10	N74LS298N	4	1	PPS	25M∅	BTD	105m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F535	MO001AE
11	N74LS398F	4	1	PPS	25M∅	BTD	65m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F538	ML285
12	N74LS398N	4	1	PPS	25M∅	BTD	65m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F538	ML286
13	N74LS399F	4	1	PPS	25M∅	BTD	65m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F539	ML127r
14	N74LS399N	4	1	PPS	25M∅	BTD	65m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F539	MO001AE
15	S54LS95BF	4	1	PPS	25M∅	BTD	105m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F402	ML19f
16	S54LS95BF	4	1	PPS	25M∅	BTD	105m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F402	FL51
17	S54LS194AF	4	1	PPS	25M∅	BTD	115m	0.0	5.0	.80	2.0	22n	16m	.40	5	C	F245	ML127r
18	S54LS194AW	4	1	PPS	25M∅	BTD	115m	0.0	5.0	.80	2.0	22n	16m	.40	5	C	F245	FL14d
19	S54LS298F	4	1	PPS	25M∅	BTD	105m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F535	ML127r
20	S54LS298W	4	1	PPS	25M∅	BTD	105m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F535	FL14d
21	S54LS398F	4	1	PPS	25M∅	BTD	65m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F538	ML285
22	S54LS399F	4	1	PPS	25M∅	BTD	65m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F539	ML127r
23	S54LS399W	4	1	PPS	25M∅	BTD	65m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F539	FL14d
24	SN54LS295BJ	4	1	PPS	25M∅	BTD	145m	0.0	5.0	.70	2.0 ⁵	35n∅	12m	.40	5	C	F282	TO116
25	SN54LS295BW	4	1	PPS	25M∅	BTD	145m	0.0	5.0	.70	2.0 ⁵	35n∅	12m	.40	5	C	F282	MO004AA
26	SN54LS395AJ	4	1	PPS	25M∅	BTD	145m	0.0	5.0	.70	2.0 ⁵	35n∅	12m	.40	5	C	F283	ML61a
27	SN54LS395AW	4	1	PPS	25M∅	BTD	145m	0.0	5.0	.70	2.0 ⁵	35n∅	12m	.40	5	C	F283	MO004AC
28	SN74LS295BJ	4	1	PPS	25M∅	BTD	145m	0.0	5.0	.80	2.0 ⁵	35n∅	24m	.50	0	7	F282	TO116
29	SN74LS295BN	4	1	PPS	25M∅	BTD	145m	0.0	5.0	.80	2.0 ⁵	35n∅	24m	.50	0	7	F282	TO116
30	SN74LS395AJ	4	1	PPS	25M∅	BTD	145m	0.0	5.0	.80	2.0 ⁵	35n∅	24m	.50	0	7	F283	ML61a
31	SN74LS395AN	4	1	PPS	25M∅	BTD	145m	0.0	5.0	.80	2.0 ⁵	35n∅	24m	.50	0	7	F283	ML48
32	S495ADM	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	F402	TO116
33	S495AFM	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	32n	16m	.40	5	C	F402	TO86
34	7495ADC	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	F402	TO116
35	7495AFC	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	F402	TO116
36	7495APC	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	F402	ML233
37	54178DM	4	1	PPS	25M∅	BTX	350m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F124b	TO116
38	54178FM	4	1	PPS	25M∅	BTX	350m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F124b	TO86
39	54179DM	4	1	PPS	25M∅	BTX	350m	0.0	5.0	.80	2.0	36n	16m	.40	5	C	F124a	ML127d
40	54179FM	4	1	PPS	25M∅	BTX	350m	0.0	5.0	.80	2.0	36n	16m	.40	5	C	F124a	FL14g
41	54194DM	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F245	ML127k
42	54194FM	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F245	FL14g
43	74178DC	4	1	PPS	25M∅	BTX	375m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F124b	TO116
44	74178FC	4	1	PPS	25M∅	BTX	375m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F124b	TO86
45	74178PC	4	1	PPS	25M∅	BTX	375m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F124b	ML233
46	74179DC	4	1	PPS	25M∅	BTX	375m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F124b	ML127k
47	74179FC	4	1	PPS	25M∅	BTX	375m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F124b	FL14g
48	74179PC	4	1	PPS	25M∅	BTX	375m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F124b	ML170
49	74194DC	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F245	ML127k
50	74194FC	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F245	FL14g
51	74194PC	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F245	ML170
52	AM9300DC	4	1	PPS	25M∅	BTX	425m	0.0	5.0	.80	2.0	45n∅	16m	.40	0	7	F2	ML127k
53	AM9300DM	4	1	PPS	25M∅	BTX	430m	0.0	5.0	.80	2.0	45n∅	16m	.40	0	7	F2	ML62c
54	AM9300FM	4	1	PPS	25M∅	BTX	425m	0.0	5.0	.80	2.0	45n∅	16m	.40	0	7	F2	FL33b
55	AM9300PC	4	1	PPS	25M∅	BTX	430m	0.0	5.0	.80	2.0	45n∅	16m	.40	0	7	F2	ML89a
56	AMU6B930051X	4	1	PPS	25M∅	BTX	375m	0.0	5.0	.90	1.7	35n∅	7.4m	.40	5	C	F2	ML62
57	AMU6B930059X	4	1	PPS	25M∅	BTX	400m	0.0	5.0	.85	1.8	35n∅	8.5m	.45	0	7	F2	ML62
58#	FLJ191-7495A	4	1	PPS	25M	BTX	330m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	F155	ML∅
59#	FLJ195-8495A	4	1	PPS	25M	BTX	330m	0.0	5.0	.80	2.0	32n	16m	.40	2	8	F155	ML∅
60#	FLJ551-74194	4	1	PPS	25M	BTX	330m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F469	ML∅
61#	FLJ555-84194	4	1	PPS	25M	BTX	330m	0.0	5.0	.80	2.0	30n	16m	.40	2	8	F469	ML∅
62#	M53375P	4	1	PPS	25MΔ	BTX	150m	0.0	5.0	.80	2.0	35nΔ			0	7	F351	ML146
63	MC8300L	4	1	PPS	25M†	BTX	300m†	0.0	5.0	.45%	2.4	45n∅	12m	.45	0	7	F37	ML5
64	MC8300P	4	1	PPS	25M†	BTX	300m†	0.0	5.0	.45%	2.4	45n∅	12m	.45	0	7	F37	ML40a
65	MC9300L	4	1	PPS	25M†	BTX	300m†	0.0	5.0	.40%	2.4	45n∅	12m	.40	5	C	F37	ML5
66	N7495AF	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F402	ML19f
67	N7495AN	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F402	ML86
68	N74194B	4	1	PPS	25M∅	BTX	195m†	0.0	5.0	.80	2.0	30n∅	16m	.40	0	7	F132	ML132
69	N74194F	4	1	PPS	25M∅	BTX	195m†	0.0	5.0	.80	2.0	30n∅	16m	.40	0	7	F245	ML127m
70	N74194N	4	1	PPS	25M∅	BTX	315m	0.0	5.0	.80	2.0	22n	16m	.40	0	7	F245	MO001AE
71	N74298F	4	1	PPS	25M∅	BTX	325m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F535	ML127r
72	N74298N	4	1	PPS	25M∅	BTX	325m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F535	MO001AE
73#	RC5495A	4	1	PPS	25M∅	BTX	410m	0.0	5.0	.80	2.0	32n∅	16m	.40	5	C	F36	ML86
74#	RC5495F	4	1	PPS	25M∅	BTX	410m	0.0	5.0	.80	2.0	32n∅	16m	.40	5	C	F36	ML93b
75#	RC54194B	4	1	PPS	25M∅	BTX	315m†	0.0	5.0	.80	2.0	30n∅	16m	.40	5	C	F132	ML132
76#	RC54194F	4	1	PPS	25M∅	BTX	315m†	0.0	5.0	.80	2.0	30n∅	16m	.40	5	C	F132	ML61d
77#	RC54194W	4	1	PPS	25M∅	BTX	315m†	0.0	5.0	.80	2.0	30n∅	16m	.40	5	C	F132	FL25
78	S5495A	4	1	PPS	25M∅	BTX	410m	0.0										

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS / REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE
1	SN74179N	4	1	PPS	25M	BTX	230m	0.0	5.0	.80	2.0	36n	16m	.40	0	7	F191a	ML48
2	SN74194J	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F89a	ML61a
3	SN74194N	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F89a	ML48
4	TMSR4A	4	1	PPS	25M	BTX	250m	0.0	5.0	.22†	3.3†	35n			0	7	F342	
5#	ZN5495AJ	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	PN14x	ML64f
6#	ZN7495AE	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	PN14x	ML71e
7#	ZN7495AJ	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	PN14x	ML64f
8#	ZN54175E	4	1	PPS	25M	BTX	225m	0.0	5.0	.80	2.0	35n			0	7	F351	TO116
9#	ZN54175J	4	1	PPS	25M	BTX	225m	0.0	5.0	.80	2.0	35n			0	7	F351	ML93e
10#	ZN54194E	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	5	PN16fi	ML5f
11#	ZN54194J	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	5	PN16fi	ML85b
12#	ZN74175E	4	1	PPS	25M	BTX	225m	0.0	5.0	.80	2.0	35n			0	7	F351	TO116
13#	ZN74175J	4	1	PPS	25M	BTX	225m	0.0	5.0	.80	2.0	35n			0	7	F351	ML93e
14#	ZN74194E	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	PN16fi	ML5f
15#	ZN74194J	4	1	PPS	25M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	PN16fi	ML85b
16	SN54LS95AJ	4	1	PPS	28M	BTX	85m	0.0	5.0	.70	2.0	48n	4.0m	.40	5	5	F70	ML66
17	SN54LS95AW	4	1	PPS	28M	BTX	85m	0.0	5.0	.70	2.0	48n	4.0m	.40	5	5	F70	MO004AA
18	SN74LS95AJ	4	1	PPS	28M	BTX	85m	0.0	5.0	.80	2.0	48n	8.0m	.50	0	7	F70	ML66a
19	SN74LS95AN	4	1	PPS	28M	BTX	85m	0.0	5.0	.80	2.0	48n	8.0m	.50	0	7	F70	ML71
20	SN74LS95AW	4	1	PPS	28M	BTX	85m	0.0	5.0	.80	2.0	48n	8.0m	.50	0	7	F70	MO004AA
21	54LS95BDM	4	1	PPS	30M*	BDT	115m	0.0	5.0	.70	2.0	27n	4.0m	.40	5	5	F402	TO116
22	54LS95BFM	4	1	PPS	30M*	BDT	115m	0.0	5.0	.70	2.0	27n	4.0m	.40	5	5	F402	TO86
23	54LS194ADM	4	1	PPS	30M*	BDT	115m	0.0	5.0	.70	2.0	26n	4.0m	.40	5	5	F245	ML127k
24	54LS194AFM	4	1	PPS	30M*	BDT	115m	0.0	5.0	.70	2.0	26n	4.0m	.40	5	5	F245	FL14g
25	54LS194AJ	4	1	PPS	30M*	BDT	115m	0.0	5.0	.70	2.0	30n	4.0m	.40	5	5	F245	ML2
26	54LS194AW	4	1	PPS	30M*	BDT	115m	0.0	5.0	.70	2.0	30n	4.0m	.40	5	5	F245	FL14h
27	54LS195ADM	4	1	PPS	30M*	BDT	115m	0.0	5.0	.70	2.0	26n	4.0m	.40	5	5	F246	ML127k
28	54LS195AFM	4	1	PPS	30M*	BDT	115m	0.0	5.0	.70	2.0	26n	4.0m	.40	5	5	F246	FL14g
29	54LS195AJ	4	1	PPS	30M*	BDT	105m	0.0	5.0	.70	2.0	33n	4.0m	.40	5	5	F108	ML2
30	54LS195AW	4	1	PPS	30M*	BDT	105m	0.0	5.0	.70	2.0	33n	4.0m	.40	5	5	F108	FL14h
31	54LS295ADM	4	1	PPS	30M*	BDT	125m	0.0	5.0	.70	2.0	30n	4.0m	.40	5	5	F282	TO116
32	54LS295AFM	4	1	PPS	30M*	BDT	125m	0.0	5.0	.70	2.0	30n	4.0m	.40	5	5	F282	TO86
33	54LS295AJ	4	1	PPS	30M*	BDT	125m	0.0	5.0	.70	2.0	45n	4.0m	.40	5	5	F282	ML63c
34	54LS295AW	4	1	PPS	30M*	BDT	125m	0.0	5.0	.70	2.0	45n	4.0m	.40	5	5	F282	FL11c
35	54LS379DM	4	1	PPS	30M*	BDT	90m	0.0	5.0	.70	2.0	22n	4.0m	.40	5	5	F452	ML157e
36	54LS379FM	4	1	PPS	30M*	BDT	90m	0.0	5.0	.70	2.0	22n	4.0m	.40	5	5	F452	FL14j
37	54LS395DM	4	1	PPS	30M*	BDT	145m	0.0	5.0	.70	2.0	35n	4.0m	.40	5	5	F483	ML157e
38	54LS395FM	4	1	PPS	30M*	BDT	145m	0.0	5.0	.70	2.0	35n	4.0m	.40	5	5	F483	FL14j
39	74LS95BDC	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F402	TO116
40	74LS95BFC	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F402	TO86
41	74LS95BPC	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F402	ML233
42	74LS194ADC	4	1	PPS	30M*	BDT	115m	0.0	5.0	.80	2.0	26n	4.0m	.40	0	7	F245	ML127k
43	74LS194AFC	4	1	PPS	30M*	BDT	115m	0.0	5.0	.80	2.0	26n	4.0m	.40	0	7	F245	FL14g
44	74LS194AJ	4	1	PPS	30M*	BDT	115m	0.0	5.0	.80	2.0	30n	4.0m	.40	0	7	F245	ML2
45	74LS194APC	4	1	PPS	30M*	BDT	115m	0.0	5.0	.80	2.0	26n	4.0m	.40	0	7	F245	ML170
46	74LS194AW	4	1	PPS	30M*	BDT	115m	0.0	5.0	.80	2.0	30n	4.0m	.40	0	7	F245	FL14h
47	74LS195ADC	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	26n	4.0m	.40	0	7	F246	ML127k
48	74LS195AFC	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	26n	4.0m	.40	0	7	F246	FL14g
49	74LS195AJ	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	33n	4.0m	.40	0	7	F108	ML2
50	74LS195APC	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	26n	4.0m	.40	0	7	F246	ML170
51	74LS195AW	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	33n	4.0m	.40	0	7	F108	FL14h
52	74LS295ADC	4	1	PPS	30M*	BDT	125m	0.0	5.0	.80	2.0	30n	4.0m	.40	0	7	F282	TO116
53	74LS295AFC	4	1	PPS	30M*	BDT	125m	0.0	5.0	.80	2.0	30n	4.0m	.40	0	7	F282	TO86
54	74LS295AJ	4	1	PPS	30M*	BDT	125m	0.0	5.0	.80	2.0	45n	4.0m	.40	0	7	F282	ML63c
55	74LS295APC	4	1	PPS	30M*	BDT	125m	0.0	5.0	.80	2.0	30n	4.0m	.40	0	7	F282	ML233
56	74LS295AW	4	1	PPS	30M*	BDT	125m	0.0	5.0	.80	2.0	45n	4.0m	.40	0	7	F282	FL11c
57	74LS379DC	4	1	PPS	30M*	BDT	90m	0.0	5.0	.80	2.0	22n	8.0m	.50	0	7	F452	ML157e
58	74LS379FC	4	1	PPS	30M*	BDT	90m	0.0	5.0	.80	2.0	22n	8.0m	.50	0	7	F452	FL14j
59	74LS379PC	4	1	PPS	30M*	BDT	90m	0.0	5.0	.80	2.0	22n	8.0m	.50	0	7	F452	ML170
60	74LS395DC	4	1	PPS	30M*	BDT	145m	0.0	5.0	.80	2.0	35n	8.0m	.50	0	7	F483	ML157e
61	74LS395FC	4	1	PPS	30M*	BDT	145m	0.0	5.0	.80	2.0	35n	8.0m	.50	0	7	F483	FL14j
62	74LS395PC	4	1	PPS	30M*	BDT	145m	0.0	5.0	.80	2.0	35n	8.0m	.50	0	7	F483	ML170
63#	M74LS173AP	4	1	PPS	30M*	BDT	140m	0.0	5.0	.80	2.0	30n	12m	.40	2	7	F482	ML409
64#	M74LS173P	4	1	PPS	30M*	BDT	140m	0.0	5.0	.80	2.0	40n	8.0m	.05	0	7	F482	ML409
65#	M74LS395P	4	1	PPS	30M*	BDT	145m	0.0	5.0	.80	2.0	35n	8.0m	.05	0	7	F483	ML409
66	N74LS195AF	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	22n	16m	.40	0	7	F108	ML127r
67	N74LS195AN	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	22n	16m	.40	0	7	F108	MO001AB
68	N74LS295BF	4	1	PPS	30M*	BDT	145m	0.0	5.0	.80	2.0	23n	12m	.40	0	7	F282	ML19f
69	N74LS295BN	4	1	PPS	30M*	BDT	145m	0.0	5.0	.80	2.0	23n	12m	.40	0	7	F282	ML86
70	N74LS395AF	4	1	PPS	30M*	BDT	170m	0.0	5.0	.80	2.0	30n	24m	.50	0	7	F283	ML127r
71	N74LS395AN	4	1	PPS	30M*	BDT	170m	0.0	5.0	.80	2.0	30n	24m	.50	0	7	F283	MO001AB
72	S54LS195AF	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	22n	16m	.40	5	5	F108	ML127r
73	S54LS195AW	4	1	PPS	30M*	BDT	105m	0.0	5.0	.80	2.0	22n	16m	.40	5	5	F108	FL14g
74	S54LS295BF	4	1	PPS	30M*	BDT	145m	0.0	5.0	.80	2.0	23n	24m	.50	5	5	F282	ML19f
75	S54LS295BW	4	1	PPS	30M*	BDT	145m	0.0	5.0	.80	2.0	23n	24m	.50	5	5	F282	FL51
76	S54LS395AF	4	1	PPS	30M*	BDT	170m	0.0	5.0	.80	2.0	30n	12m	.40	5	5	ML127r	FL14d
77	S54LS395AW	4	1	PPS	30M*	BDT	170m	0.0	5.0	.80	2.0	30n	12m	.40	5	5	ML127r	FL14d
78	SN54LS95BJ	4	1	PPS	30M*	BDT	65m	0.0	5.0	.70	2.0	32n			5	5	F155	ML330
79	SN54LS95BW	4	1	PPS	30M*	BDT	65m	0.0	5.0	.70	2.0	32n	4.0m	.40	5			

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS / REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		3 OPER. CODE	4 MAX CASE FREQ. (Hz)	5 STRUC TURE CODE	6 OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		1 BITS PER REGISTER	2 No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE
1	SN74LS395N	4	1	PPS	30M	BTD	145m	0.0	5.0	.80	2.0s	32n	4.0m	.40	0	7	F283	ML331
2	SN74LS395W	4	1	PPS	30M	BTD	145m	0.0	5.0	.80	2.0s	35n	4.0m	.40	0	7	F283	FL63
3	9300DC	4	1	PPS	30M	BTX	460m	0.0	5.0	.80	2.0	40n	12m	.40	0	7	F2	ML127k
4	9300DM	4	1	PPS	30M	BTX	430m	0.0	5.0	.80	2.0	40n	12m	.40	5	C	F2	ML127k
5	9300FC	4	1	PPS	30M	BTX	460m	0.0	5.0	.80	2.0	40n	12m	.40	0	7	F2	FL14g
6	9300FM	4	1	PPS	30M	BTX	430m	0.0	5.0	.80	2.0	40n	12m	.40	5	C	F2	FL14g
7	9300PC	4	1	PPS	30M	BTX	460m	0.0	5.0	.80	2.0	40n	12m	.40	0	7	F2	ML170
8	54195DM	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F246	ML127k
9	54195FM	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F246	FL14g
10	74195DC	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F246	ML127k
11	74195FC	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F246	FL14g
12	74195PC	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F246	ML170
13#	FLJ561-74195	4	1	PPS	30M	BTX	330m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	MLZ
14#	FLJ565-84195	4	1	PPS	30M	BTX	330m	0.0	5.0	.80	2.0	30n	16m	.40	2	8	F108	MLZ
15	MC54195L	4	1	PPS	30M	BTX	195m	0.0	5.0	.40%	2.4	30n	16m	.40	5	C	F108	ML127b
16	MC74195L	4	1	PPS	30M	BTX	195m	0.0	5.0	.40%	2.4	30n	16m	.40	0	7	F108	ML127k
17	N74S195B	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	ML132
18	N74S195J	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	ML107
19	N74S195W	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	FL25
20#	N9300F	4	1	PPS	30M	BTX	644m	0.0	5.0	.80	2.0	37n	16m	.40	0	7	F2	ML60a
21#	N9300N	4	1	PPS	30M	BTX	644m	0.0	5.0	.80	2.0	37n	16m	.40	0	7	F2	ML132
22	N74195B	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	ML132
23	N74195F	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	ML127m
24	N74195N	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	22n	16m	.40	0	7	F108	MO001AE
25#	RC54S195W	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	FL25
26#	RC54195B	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	ML132
27#	RC54195F	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	ML61d
28#	RC54195W	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	FL25
29	S54S195J	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	ML132
30	S54S195W	4	1	PPS	30M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	FL25
31#	S9300F	4	1	PPS	30M	BTX	602m	0.0	5.0	.80	2.0	37n	16m	.40	5	C	F2	ML60a
32#	S9300W	4	1	PPS	30M	BTX	602m	0.0	5.0	.80	2.0	37n	16m	.40	5	C	F2	FL25
33	S54195B	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	ML132
34	S54195F	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	ML61d
35	S54195W	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	FL25
36	SNS4195J	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	ML61a
37	SNS4195N	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	ML209
38	SNS4195W	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F108	MO004AC
39	SNS4376J	4	1	PPS	30M	BTX	370m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F357	ML61a
40	SNS4376W	4	1	PPS	30M	BTX	370m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F357	MO004AC
41	SN74195J	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	ML61a
42	SN74195N	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	ML48
43	SN74195W	4	1	PPS	30M	BTX	195m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F108	ML48
44	SN74376J	4	1	PPS	30M	BTX	370m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F357	ML61a
45	SN74376N	4	1	PPS	30M	BTX	370m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F357	ML48
46	MC5495F	4	1	PPS	31M	BTX	250m	0.0	5.0	.40%	2.4	35n	10m	.40	5	C	F36	TO86
47	MC5495L	4	1	PPS	31M	BTX	250m	0.0	5.0	.40%	2.4	35n	10m	.40	5	C	F36	ML66
48	MC7495L	4	1	PPS	31M	BTX	250m	0.0	5.0	.40%	2.4	35n	10m	.40	0	7	F36	ML66
49	54LS175J	4	1	PPS	35M	BTD	90m	0.0	5.0	.70	2.0	25n	4.0m	.40	5	C	F351	MLZ
50	54LS175W	4	1	PPS	35M	BTD	90m	0.0	5.0	.70	2.0	25n	4.0m	.40	5	C	F351	FL14h
51	AM25LS194ADC	4	1	PPS	35M	BTD	115m	0.0	5.0	.80	2.0	21n	8.0m	.45	0	7	F245	ML127k
52	AM25LS194ADM	4	1	PPS	35M	BTD	115m	0.0	5.0	.70	2.0	21n	8.0m	.45	5	C	F245	ML62c
53	AM25LS194AFM	4	1	PPS	35M	BTD	115m	0.0	5.0	.70	2.0	21n	8.0m	.45	5	C	F245	FL33b
54	AM25LS194APC	4	1	PPS	35M	BTD	115m	0.0	5.0	.80	2.0	21n	8.0m	.45	0	7	F245	ML89a
55	AM25LS195ADC	4	1	PPS	35M	BTD	105m	0.0	5.0	.80	2.0	21n	8.0m	.45	0	7	F108	ML127k
56	AM25LS195ADM	4	1	PPS	35M	BTD	105m	0.0	5.0	.70	2.0	21n	8.0m	.45	5	C	F108	ML62c
57	AM25LS195AFM	4	1	PPS	35M	BTD	105m	0.0	5.0	.70	2.0	21n	8.0m	.45	5	C	F108	FL33b
58	AM25LS195APC	4	1	PPS	35M	BTD	105m	0.0	5.0	.80	2.0	21n	8.0m	.45	0	7	F108	ML89a
59	MC4012L	4	1	PPS	35M	BTX	180m	0.0	5.0	.90	1.8	25n	16m	.40	0	7	F31	ML66
60	MC4012P	4	1	PPS	35M	BTX	180m	0.0	5.0	.90	1.8	25n	16m	.40	0	7	F31	ML38
61#	uPB74175C	4	1	PPS	35M	BTX	225m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F406	ML127s
62	N7495F	4	1	PPS	36M	BTX	315m	0.0	5.0	.80	2.0	32n	16m	.40	0	7	F36	ML93b
63#	uPB74195C	4	1	PPS	39M	BTX	315m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F421	MLZ
64	9LS95DC	4	1	PPS	40M	BTD	110m	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F402	TO116
65	9LS95DM	4	1	PPS	40M	BTD	115m	0.0	5.0	.70	2.0	27n	4.0m	.40	5	C	F402	TO116
66	9LS95FC	4	1	PPS	40M	BTD	110m	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F402	TO86
67	9LS95FM	4	1	PPS	40M	BTD	115m	0.0	5.0	.70	2.0	27n	4.0m	.40	0	7	F402	TO86
68	9LS95PC	4	1	PPS	40M	BTD	110m	0.0	5.0	.80	2.0	27n	4.0m	.40	5	C	F402	ML233
69	9LS194DC	4	1	PPS	40M	BTD	120m	0.0	5.0	.80	2.0	22n	4.0m	.40	0	7	F245	ML127s
70	9LS194DM	4	1	PPS	40M	BTD	128m	0.0	5.0	.70	2.0	22n	4.0m	.40	5	C	F245	ML127s
71	9LS194FC	4	1	PPS	40M	BTD	120m	0.0	5.0	.80	2.0	22n	4.0m	.40	0	7	F245	ML127s
72	9LS194FM	4	1	PPS	40M	BTD	128m	0.0	5.0	.70	2.0	22n	4.0m	.40	5	C	F245	FL14g
73	9LS194PC	4	1	PPS	40M	BTD	120m	0.0	5.0	.80	2.0	22n	4.0m	.40	0	7	F245	ML170
74	9LS195DC	4	1	PPS	40M	BTD	110m	0.0	5.0	.80	2.0	21n	4.0m	.40	0	7	F246	ML127s
75	9LS195DM	4	1	PPS	40M	BTD	115m	0.0	5.0	.70	2.0	21n	4.0m	.40	5	C	F246	ML127s
76	9LS195FC	4	1	PPS	40M	BTD	110m	0.0	5.0	.80	2.0	21n	4.0m	.40	0	7	F246	FL14g
77	9LS195FM	4	1	PPS	40M	BTD	115m	0.0	5.0	.70	2.0	21n	4.0m	.40	0	7	F246	FL14g
78	9LS195PC	4	1	PPS	40M	BTD	110m	0.0	5.0	.80	2.0	21n	4.0m	.40	0	7	F246	ML170
79	AM25LS08DC	4	1	PPS	40M	BTD	90m	0.0	5.0	.80	2.0	20n	8.0m	.45	0	7	F285	ML127k
80	AM25LS08DM	4	1	PPS	40M	BTD	90m	0.0										

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG(2) No. REGISTERS
(3) OP. CODE(4) MAX W/C FREQ(5) STRUCT(6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		3 OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS		
		1 BITS PER REGISTER	2 No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE	
																			+
1	93H72FM	4	1	PPS	45M*0	BTX	600m	0.0	5.0	.80	2.0	21n0	16m	.40	5	C	F141	FL14	
2	93H72PC	4	1	PPS	45M*0	BTX	650m	0.0	5.0	.80	2.0	21n0	16m	.40	5	C	F141	ML170	
3	SN54S281J	4	1	PPS	50MΔ	BTD	1.1	0.0	5.0	.80	2.0	55n	20m	.50	5	C	F272	MOO15AA	
4	SN54S281W	4	1	PPS	50MΔ	BTD	950m	0.0	5.0	.80	2.0	55n	20m	.50	5	C	F272	MOO19AA	
5	SN74S281J	4	1	PPS	50MΔ	BTX	1.1	0.0	5.0	.80	2.0	55n	20m	.50	0	7	F272	MOO15AA	
6	SN74S281N	4	1	PPS	50MΔ	BTX	1.1	0.0	5.0	.80	2.0	55n	20m	.50	0	7	F272	ML72c	
7	9LS175DC	4	1	PPS	55MΔ†	BTD	94m†	0.0	5.0	.80	2.0	20n	4.0m	.40	0	7	F406	ML127s	
8	9LS175DM	4	1	PPS	55MΔ†	BTD	99m†	0.0	5.0	.70	2.0	20n	4.0m	.40	5	C	F406	ML127s	
9	9LS175FC	4	1	PPS	55MΔ†	BTD	94m†	0.0	5.0	.80	2.0	20n	4.0m	.40	0	7	F406	FL14g	
10	9LS175FM	4	1	PPS	55MΔ†	BTD	95m†	0.0	5.0	.70	2.0	20n	4.0m	.40	5	C	F406	FL14g	
11	9LS175PC	4	1	PPS	55MΔ†	BTD	94m†	0.0	5.0	.80	2.0	20n	4.0m	.40	0	7	F406	ML170	
12#	M74LS175P	4	1	PPS	55MΔ†	BTD	94m†	0.0	5.0	0.8	2.0	20n	4.0m	0.4	0	7	F406	ML409	
13	N74S178A	4	1	PPS	60M†	BTX	473m	0.0	5.0	.50%	2.7	20n0	20m	.50	0	7	F124b	ML86	
14	N74S178F	4	1	PPS	60M†	BTX	473m	0.0	5.0	.50%	2.7	20n0	20m	.50	0	7	F124b	ML93b	
15	N74S178B	4	1	PPS	60M†	BTX	473m	0.0	5.0	.50%	2.7	20n0	20m	.50	5	C	F124a	ML132	
16	N74S179F	4	1	PPS	60M†	BTX	473m	0.0	5.0	.50%	2.7	20n0	20m	.50	5	C	F124a	ML127m	
17	N82S70A	4	1	PPS	60M†	BTX	473m	0.0	5.0	.50%	2.7	20n0	20m	.50	0	7	F124b	ML86	
18	N82S70F	4	1	PPS	60M†	BTX	473m	0.0	5.0	.50%	2.7	20n0	20m	.50	0	7	F124b	ML93b	
19	N82S71B	4	1	PPS	60M†	BTX	473m	0.0	5.0	.50%	2.7	20n0	20m	.50	5	C	F124a	ML132	
20	N82S71F	4	1	PPS	60M†	BTX	473m	0.0	5.0	.50%	2.7	20n0	20m	.50	5	C	F124a	ML127m	
21	54S184DM	4	1	PPS	70M0	BTD	675m	0.0	5.0	.80	2.0	23n	20m	.50	5	C	F245	ML127k	
22	54S184FM	4	1	PPS	70M0	BTD	675m	0.0	5.0	.80	2.0	23n	20m	.50	5	C	F245	FL14g	
23	74S184DC	4	1	PPS	70M0	BTD	675m	0.0	5.0	.80	2.0	23n	20m	.50	0	7	F245	ML127k	
24	74S184FC	4	1	PPS	70M0	BTD	675m	0.0	5.0	.80	2.0	23n	20m	.50	0	7	F245	FL14g	
25	74S184PC	4	1	PPS	70M0	BTD	675m	0.0	5.0	.80	2.0	23n	20m	.50	0	7	F245	ML170	
26	93SOODC	4	1	PPS	70M0	BTD	600m	0.0	5.0	.80	2.0	23n	20m	.50	5	C	F2	ML127k	
27	93SOODM	4	1	PPS	70M0	BTD	600m	0.0	5.0	.80	2.0	23n	20m	.50	5	C	F2	FL14g	
28	93SOOFC	4	1	PPS	70M0	BTD	600m	0.0	5.0	.80	2.0	23n	20m	.50	5	C	F2	FL14g	
29	93SOOFM	4	1	PPS	70M0	BTD	600m	0.0	5.0	.80	2.0	23n	20m	.50	5	C	F2	ML170	
30	93SOOPC	4	1	PPS	70M0	BTD	600m	0.0	5.0	.80	2.0	23n	20m	.50	5	C	F2	ML170	
31	JANM38510/07601BEB	4	1	PPS	70M	BTD	700m	0.0	5.0	.80	2.0	28n	20m	.50	5	C	F245	ML143	
32	JANM38510/07601BFB	4	1	PPS	70M	BTD	700m	0.0	5.0	.80	2.0	28n	20m	.50	5	C	F245	FL31	
33	JANM38510/07601CEB	4	1	PPS	70M	BTD	700m	0.0	5.0	.80	2.0	28n	20m	.50	5	C	F245	ML143	
34	JANM38510/07601CFB	4	1	PPS	70M	BTD	700m	0.0	5.0	.80	2.0	28n	20m	.50	5	C	F245	FL31	
35	N74S194F	4	1	PPS	70M0	BTD	675m	0.0	5.0	.80	2.0	12n	16m	.40	0	7	F245	ML127r	
36	N74S194N	4	1	PPS	70M0	BTD	675m	0.0	5.0	.80	2.0	12n	16m	.40	0	7	F245	MOO01AE	
37	N74S195F	4	1	PPS	70M0	BTD	545m	0.0	5.0	.80	2.0	12n	16m	.40	0	7	F108	ML127r	
38	N74S195N	4	1	PPS	70M0	BTD	545m	0.0	5.0	.80	2.0	12n	16m	.40	0	7	F108	MOO01AE	
39	SN54S195J	4	1	PPS	70M0	BTD	350m†	0.0	5.0	.80	2.0	18n0	20m	.50	5	C	F108	ML61a	
40	SN54S195W	4	1	PPS	70M0	BTD	350m†	0.0	5.0	.80	2.0	18n0	20m	.50	5	C	F108	MOO04AC	
41	SN74S195J	4	1	PPS	70M0	BTD	350m†	0.0	5.0	.80	2.0	18n0	20m	.50	0	7	F108	ML61a	
42	SN74S195N	4	1	PPS	70M0	BTD	350m†	0.0	5.0	.80	2.0	18n0	20m	.50	0	7	F108	ML48	
43	N74S194B	4	1	PPS	70M0	BTX	675m†	0.0	5.0	.80	2.0	18n	20m	.50	0	7	F245	ML132	
44	N74S194J	4	1	PPS	70M0	BTX	675m†	0.0	5.0	.80	2.0	18n	20m	.50	0	7	F245	ML107	
45	N74S194W	4	1	PPS	70M0	BTX	675m†	0.0	5.0	.80	2.0	18n	20m	.50	0	7	F245	FL25	
46	S54S194J	4	1	PPS	70M0	BTX	572m	0.0	5.0	.80	2.0	18n0	20m	.50	5	C	F245	ML132	
47	S54S194W	4	1	PPS	70M0	BTX	572m	0.0	5.0	.80	2.0	18n0	20m	.50	5	C	F245	FL25	
48	SN54S194J	4	1	PPS	70M0	BTX	425m†	0.0	5.0	.80	2.0	18n0	20m	.50	5	C	F245	ML61a	
49	SN54S194W	4	1	PPS	70M0	BTX	425m†	0.0	5.0	.80	2.0	18n0	20m	.50	5	C	F245	MOO04AC	
50	SN74S194J	4	1	PPS	70M0	BTX	425m†	0.0	5.0	.80	2.0	18n0	20m	.50	0	7	F245	ML61a	
51	SN74S194N	4	1	PPS	70M0	BTX	425m†	0.0	5.0	.80	2.0	18n0	20m	.50	0	7	F245	ML48	
52	AM25S18DC	4	1	PPS	75M	BTD	720m	0.0	5.0	.80	2.0	2.0s	13n	20m	.50	5	C	F331	ML127k
53	AM25S18DM	4	1	PPS	75M	BTD	720m	0.0	5.0	.80	2.0	2.0s	13n	20m	.50	5	C	F331	ML62c
54	AM25S18FM	4	1	PPS	75M	BTD	720m	0.0	5.0	.80	2.0	2.0s	13n	20m	.50	5	C	F331	ML89a
55	AM25S18PC	4	1	PPS	75M	BTD	720m	0.0	5.0	.80	2.0	2.0s	13n	20m	.50	5	C	F331	ML61a
56	SN54S175J	4	1	PPS	75MΔ	BTX	480m	0.0	5.0	.80	2.0	22n	20m	.50	5	C	F351	ML61a	
57	SN54S175W	4	1	PPS	75MΔ	BTX	480m	0.0	5.0	.80	2.0	22n	20m	.50	5	C	F351	MOO04AC	
58	SN74S175J	4	1	PPS	75MΔ	BTX	480m	0.0	5.0	.80	2.0	22n	20m	.50	0	7	F351	ML82	
59	SN74S175N	4	1	PPS	75MΔ	BTX	480m	0.0	5.0	.80	2.0	22n	20m	.50	0	7	F351	ML48	
60	AM54S194J	4	1	PPS	110M†	BTD	450m	0.0	5.0	.80	2.0	10n	20m	.50	5	C	F89a	FL14	
61	AM54S194W	4	1	PPS	110M†	BTD	450m	0.0	5.0	.80	2.0	10n	20m	.50	5	C	F89a	ML62	
62	AM54S195J	4	1	PPS	110M†	BTD	375m	0.0	5.0	.80	2.0	10n	20m	.50	5	C	F192	FL14	
63	AM54S195W	4	1	PPS	110M†	BTD	375m	0.0	5.0	.80	2.0	10n	20m	.50	5	C	F192	ML15a	
64	AM74S194J	4	1	PPS	110M†	BTD	450m	0.0	5.0	.80	2.0	10n	20m	.50	0	7	F89a	ML89a	
65	AM74S194N	4	1	PPS	110M†	BTD	450m	0.0	5.0	.80	2.0	10n	20m	.50	0	7	F89a	ML15a	
66	AM74S195J	4	1	PPS	110M†	BTD	375m	0.0	5.0	.80	2.0	10n	20m	.50	0	7	F192	ML89a	
67	AM74S195N	4	1	PPS	110M†	BTD	375m	0.0	5.0	.80	2.0	10n	20m	.50	0	7	F192	ML89a	
68	95000DC	4	1	PPS	150M0	BEX	442m	5.2	0.0	-1.4	-1.1	5.0n	50mZ	.50	0	7	F488	ML157a	
69	MC10141L	4	1	PPS	150M	BEX	425m†	5.2	0.0	-1.4	-1.1	3.8n0	50mZ	.50	3	8	F174	ML127b	
70	MC10141P	4	1	PPS	150M	BEX	425m†	5.2	0.0	-1.4	-1.1	3.8n0	50mZ	.50	3	8	F174	ML145	
71	MC10541F	4	1	PPS	150M	BEX	425m†	5.2	0.0	-1.4	-1.1	3.8n0	50mZ	.50	5	C	F174	FL34	
72	MC10541L	4	1	PPS	150M	BEX	425m†	5.2	0.0	-1.4	-1.1	3.8n0	50mZ	.50	5	C	F174	ML127b	
73	95H00DC	4	1	PPS	190M†	BEX	551m	5.2	0.0	-1.4	-1.1	7.5n0	50mZ	.50	0	7	F488	ML15a	
74	F10000DC	4	1	PPS	200M†	BEX	343m†	5.2	0.0	-1.4	-1.1	5.0n	50mZ	.50	0	7	F488	ML127s	
75	F10000DM	4	1	PPS	200M†	BEX	343m†	5.2	0.0	-1.4	-1.1	5.0n	50mZ	.50	5	C	F488	ML127s	
76	F10000FC	4	1	PPS	200M†	BEX	343m†	5.2	0.0	-1.4	-1.1	5.0n	50mZ	.50	5	C	F488a	FL14j	
77	F10000FM	4	1	PPS	200M†	BEX	343m†	5.2	0.0	-1.4	-1.1	5.0n	50mZ	.50	5	C	F488a	FL14j	
78	F10000PC	4	1	PPS	200M†	BEX	343m†	5.2	0.0	-1.4	-1.1	5.0n	50mZ	.50	0				

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG(2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS		
		1 BITS PER REGISTER	2 No. REGS					NEG (V)	POS (V)	MAX '0' (V)	MIN '1' (V)		MIN (A)	MAX (V)			LOGIC/BLOCK	OUTLINE	
																			3	4
1#	ZN5495AE	4	1	PSS	25M∅	BTX	195m∅	0.0	5.0	80	2.0	32n∅	16m	.40	5	C	C	PN14x	ML71e
2#	RC5494B	4	1	PSS	100M∅	BTX	250m∅	0.0	5.0	80	2.0	40n∅	16m	.40	5	C	C	F92	CL132
3#	RC5494F	4	1	PSS	100M∅	BTX	250m∅	0.0	5.0	80	2.0	40n∅	16m	.40	5	C	C	F92	ML61b
4#	RC5494W	4	1	PSS	100M∅	BTX	250m∅	0.0	5.0	80	2.0	40n∅	16m	.40	5	C	C	F92	FL25
5	MC1694L	4	1	SPS	325M∅	BEX	750m∅	5.2	0.0	-1.6%	-0.96	3.7n∅	40m∅	1.5	5	C	C	F173	ML60b
6	MC686L	4	1	SSS	500k%*	BTX	480m∅	0.0	15	1.5%	12.5	300n∅	12m	1.5	3	7	7	F234	ML60b
7	MC686P	4	1	SSS	500k%*	BTX	480m∅	0.0	15	1.5%	12.5	300n∅	12m	1.5	3	7	7	F234	ML5b
8#	H160D1	4	1	SSS	1.5M∅	BXX	500m∅	0.0	20	6.0	8.0	350n∅	12m	1.5	3	7	7		
9	5494DM	4	1	SSS	10M∅	BTX	250m∅	0.0	5.0	80	2.0	40n	16m	.40	5	C	C	PN16fg	ML127e
10	5494FM	4	1	SSS	10M∅	BTX	250m∅	0.0	5.0	80	2.0	40n	16m	.40	5	C	C	PN16fg	ML127e
11	7494DC	4	1	SSS	10M∅	BTX	290m∅	0.0	5.0	80	2.0	40n	16m	.40	0	7	7	PN16fg	FL14g
12	7494FC	4	1	SSS	10M∅	BTX	290m∅	0.0	5.0	80	2.0	40n	16m	.40	0	7	7	PN16fg	FL14g
13	7494PC	4	1	SSS	10M∅	BTX	290m∅	0.0	5.0	80	2.0	40n	16m	.40	0	7	7	PN16fg	ML170
14	RH803	4	2	PPS	500k	BDX∅	2.2	0.0	15	1.0†	3.0				0	7	7	F263	
15	MSR8	4	2	PPS	5.0M	BDX∅	360m	0.0	5.0	40	3.0				0	7	7	F341	
16	RD803	4	2	PPS	5.0M	BDX∅	500m	0.0	5.0	30†	5.0†				0	7	7	F263	
17	RT801	4	2	PPS	10M	BTX∅	540m	0.0	5.0	30	3.3†				0	7	7	F266	
18	TMSR8A	4	2	PPS	25MΔ	BTX∅	500m	0.0	5.0	22†	3.3†				0	7	7	F342a	
19	SN54LS396J	4	2	PPS	30MΔ	BTD	200m	0.0	5.0	.70	2.0	30n	4.0m	.40	5	C	C	F532	ML61a
20	SN54LS396W	4	2	PPS	30MΔ	BTD	200m	0.0	5.0	.70	2.0	30n	4.0m	.40	5	C	C	F532	MO004AG
21	SN74LS396J	4	2	PPS	30MΔ	BTD	200m	0.0	5.0	.80	2.0	30n	8.0m	.50	0	7	7	F532	ML61a
22	SN74LS396N	4	2	PPS	30MΔ	BTD	200m	0.0	5.0	.80	2.0	30n	8.0m	.50	0	7	7	F532	ML48
23	34015DC	4	2	SPS		MCX	2.0m∅	0.0	10	3.0	7.0	135n†	1.2m	.50	4	8	8	F80	ML127s
24	34015DM	4	2	SPS		MCX	2.0m∅	0.0	10	3.0	7.0	135n†	1.2m	.50	5	C	C	F80	ML14g
25	34015FC	4	2	SPS		MCX	2.0m∅	0.0	10	3.0	7.0	135n†	1.2m	.50	5	C	C	F80	ML170
26	34015FM	4	2	SPS		MCX	2.0m∅	0.0	10	3.0	7.0	135n†	1.2m	.50	4	8	8	F80	ML170
27	34015PC	4	2	SPS		MCX	2.0m∅	0.0	10	3.0	7.0	135n†	1.2m	.50	4	8	8	F80	ML170
28#	HEF4015B	4	2	SPS		MCX	400m∅	0.0	10	3.0	7.0		2.0m	.50	4	8	8	F434	ML170
29	RH804	4	2	SPS		BDX∅	2.1	0.0	15	1.0†	1.5†				0	7	7	F264	
30	JANM38510/05703BEA	4	2	SPS	700k	MCX	200m∅	0.0	5.0	.85	3.95	1.4u	85u%	.50	5	C	C	F462	ML220
31	JANM38510/05703BEB	4	2	SPS	700k	MCX	200m∅	0.0	5.0	.85	3.95	1.4u	85u%	.50	5	C	C	F462	ML220
32	JANM38510/05703BEC	4	2	SPS	700k	MCX	200m∅	0.0	5.0	.85	3.95	1.4u	85u%	.50	5	C	C	F462	ML220
33	JANM38510/05703BFA	4	2	SPS	700k	MCX	200m∅	0.0	5.0	.85	3.95	1.4u	85u%	.50	5	C	C	F462	ML220
34	JANM38510/05703CEA	4	2	SPS	700k	MCX	200m∅	0.0	5.0	.85	3.95	1.4u	85u%	.50	5	C	C	F462	FL31
35	JANM38510/05703CEB	4	2	SPS	700k	MCX	200m∅	0.0	5.0	.85	3.95	1.4u	85u%	.50	5	C	C	F462	ML220
36	JANM38510/05703CEC	4	2	SPS	700k	MCX	200m∅	0.0	5.0	.85	3.95	1.4u	85u%	.50	5	C	C	F462	ML220
37	JANM38510/05703CFA	4	2	SPS	700k	MCX	200m∅	0.0	5.0	.85	3.95	1.4u	85u%	.50	5	C	C	F462	ML220
38	CM4015AE	4	2	SPS	1.0M	MCX	200m∅	0.0	5.0	.01%∅	4.99	1.0u∅			5	C	C	F462	FL31
39	TP4015AJ	4	2	SPS	1.3MΔ	MCX	14m∅	0.0	10	.05%	9.95	500n	350u	9.5	4	8	8	F80	ML4g
40	TP4015AN	4	2	SPS	1.3MΔ	MCX	14m∅	0.0	10	.05%	9.95	500n	350u	9.5	4	8	8	F355	ML61a
41	CM4015AD	4	2	SPS	1.5M	MCX	200m∅	0.0	5.0	.01%∅	4.99	750n∅			5	C	C	F80	ML4g
42	TF4015AJ	4	2	SPS	1.8MΔ	MCX	6.0m∅	0.0	10	.05%	9.95	400n	350u	9.5	5	C	C	F355	ML61a
43	TF4015AN	4	2	SPS	1.8MΔ	MCX	6.0m∅	0.0	10	.05%	9.95	400n	350u	9.5	5	C	C	F355	ML48
44	SS4015AE	4	2	SPS	2.5M*	MCX	14m∅	0.0	10	.05%	9.95	300n∅	2.8m	1.5	2	8	8	F298	MO001AC
45	CD4015AE	4	2	SPS	2.5M∅	MCX	14m∅	0.0	10	.05%	9.95	300n∅	80u%	9.5	4	8	8	F80	MO001AC
46	CD4015AY	4	2	SPS	2.5M∅	MCX	14m∅	0.0	10	.05%	9.95	300n∅	80u%	9.5	4	8	8	F80	MO001AC
47#	HF4015AE	4	2	SPS	2.5M∅	MCX	14m∅	0.0	10	.05%	9.9	300n∅	80u%	9.5	4	8	8	F80	MO001AC
48#	HF4015AF	4	2	SPS	2.5M∅	MCX	14m∅	0.0	10	.05%	9.9	300n∅	80u%	9.5	4	8	8	F80	ML127c
49	SCL4015BC	4	2	SPS	3.0M∅	MCA	300u∅	0.0	15	4.0	11	200n∅	3.4m∅	1.5	5	C	C	F424	ML127t
50	SCL4015BD	4	2	SPS	3.0M∅	MCA	300u∅	0.0	15	4.0	11	200n∅	3.4m∅	1.5	5	C	C	F424	MO001AB
51	SCL4015BE	4	2	SPS	3.0M∅	MCA	300u∅	0.0	15	4.0	11	200n∅	3.0m∅	1.5	4	8	8	F424	ML127u
52	SCL4015BF	4	2	SPS	3.0M∅	MCA	300u∅	0.0	15	4.0	11	200n∅	3.4m∅	1.5	5	C	C	F424	MO004AH
53	SCL4015BH	4	2	SPS	3.0M∅	MCA	300u∅	0.0	15	4.0	11	200n∅	3.4m∅	1.5	5	C	C	F424	CH[∅]
54	CD4015AD	4	2	SPS	3.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	225n∅	140u%	9.5	5	C	C	F80	MO001AB
55	CD4015AF	4	2	SPS	3.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	225n∅	140u%	9.5	5	C	C	F80	MO001AC
56	CD4015AH	4	2	SPS	3.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	225n∅	140u%	9.5	5	C	C	F80	CH6
57	CD4015AK	4	2	SPS	3.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	225n∅	140u%	9.5	5	C	C	F80	MO001AC
58	CM4015AF	4	2	SPS	3.0M∅	MCX	6.0m∅	0.0	10	.05%	9.95	225n∅	140u%	9.5	5	C	C	F80	ML19a
59#	HBC4015AD	4	2	SPS	3.0M∅	MCX	6.0m∅	0.0	10	.05%	9.9	225n∅	140u%	9.5	5	C	C	F80	ML127c
60#	HBC4015AF	4	2	SPS	3.0M∅	MCX	6.0m∅	0.0	10	.05%	9.9	225n∅	140u%	9.5	5	C	C	F80	ML127c
61#	HBC4015AK	4	2	SPS	3.0M∅	MCX	6.0m∅	0.0	10	.05%	9.9	225n∅	140u%	9.5	5	C	C	F80	MO004AG
62	MC14015BAL	4	2	SPS	3.8M∅	MCX	300u∅	0.0	15	4.0	11	170n∅	3.4m	1.5	5	C	C	F397	ML157a
63	MC14015BCL	4	2	SPS	3.8M∅	MCX	1.2m∅	0.0	15	4.0	11	170n∅	3.0m	1.5	4	8	8	F397	ML157a
64	MC14015BCL	4	2	SPS	3.8M∅	MCX	1.2m∅	0.0	15	4.0	11	170n∅	3.0m	1.5	4	8	8	F397	ML145
65	RD804	4	2	SPS	5.0M	BDX∅	575m	0.0	5.0	.30†	5.0†				0	7	7	F264	
66	SCL4015AC	4	2	SPS	5.0M†∅	MCX	300m∅	0.0	10	.05%	9.95	225n∅	350u%	9.5	5	C	C	F154	ML4g
67	SCL4015AD	4	2	SPS	5.0M†∅	MCX	300m∅	0.0	10	.05%	9.95	225n∅	350u%	9.5	5	C	C	F154	ML62a
68	SCL4015AE	4	2	SPS	5.0M†∅	MCX	300m∅	0.0	10	.05%	9.95	225n∅	350u%	9.5	4	8	8	F154	ML89
69	SCL4015AF	4	2	SPS	5.0M†∅	MCX	300m∅	0.0	10	.05%	9.95	225n∅	350u%	9.5	5	C	C	F154	FL23
70	SCL4015AH	4	2	SPS	5.0M†∅	MCX	300m∅	0.0	10	.05%	9.95	225n∅	350u%	9.5	5	C	C	F154	CH[∅]
71#	uPD4015C	4	2	SPS	5.0M†∅	MCX	200m∅	0.0	10	.30	.70	300n	80u	.50	4	8	8	F80	MO001AC
72	4015BDC	4	2	SPS	8.0M∅	MCX	9.0m∅	0.0	15	4.0	11	128n	4.5m	1.5	4	8	8	F424	ML157e
73	4015BDM	4	2	SPS	8.0M∅	MCX	9.0m∅	0.0	15	4.0	11	128n	4.5m	1.5	5	C	C	F424	ML157e
74	4015BFC	4	2	SPS	8.0M∅	MCX	9.0m∅	0.0	15	4.0	11	128n	4.5m	1.5	4	8	8	F424	FL14j
75	4015BFM	4	2	SPS	8.														

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS / (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE
1	SN74LS96N	5	1	PPS	5.0M	BTX	120m	0.0	5.0	.80	2.0	110n	8.0m	.40	5	C	F40	ML61a
2#	ZN54LS96E	5	1	PPS	5.0M	BTX	120m	0.0	5.0	.80	2.0	110n	8.0m	.40	5	C	F457	ML5f
3#	ZN54LS96J	5	1	PPS	5.0M	BTX	120m	0.0	5.0	.80	2.0	110n	8.0m	.40	5	C	F457	ML85b
4#	SN74LS96E	5	1	PPS	5.0M	BTX	120m	0.0	5.0	.80	2.0	110n	8.0m	.40	0	7	F457	ML5f
5#	ZN74LS96J	5	1	PPS	5.0M	BTX	120m	0.0	5.0	.80	2.0	110n	8.0m	.40	0	7	F457	ML85b
6	JANM38510/00902BEA	5	1	PPS	7.0M	BTX	400m	0.0	5.0	.80	2.0	77n	16m	.40	5	C	F40	ML142
7	JANM38510/00902BEB	5	1	PPS	7.0M	BTX	400m	0.0	5.0	.80	2.0	77n	16m	.40	5	C	F40	ML142
8	JANM38510/00902BFA	5	1	PPS	7.0M	BTX	400m	0.0	5.0	.80	2.0	77n	16m	.40	5	C	F40	FL31
9	JANM38510/00902BFB	5	1	PPS	7.0M	BTX	400m	0.0	5.0	.80	2.0	77n	16m	.40	5	C	F40	FL31
10	JANM38510/00902CEA	5	1	PPS	7.0M	BTX	400m	0.0	5.0	.80	2.0	77n	16m	.40	5	C	F40	ML142
11	JANM38510/00902CEB	5	1	PPS	7.0M	BTX	400m	0.0	5.0	.80	2.0	77n	16m	.40	5	C	F40	ML142
12	JANM38510/00902CFA	5	1	PPS	7.0M	BTX	400m	0.0	5.0	.80	2.0	77n	16m	.40	5	C	F40	FL31
13	JANM38510/00902CFB	5	1	PPS	7.0M	BTX	400m	0.0	5.0	.80	2.0	77n	16m	.40	5	C	F40	FL31
14	5496DM	5	1	PPS	10M	BTX	340m	0.0	5.0	.80	2.0	55n	16m	.40	5	C	F40	ML127e
15	5496FM	5	1	PPS	10M	BTX	340m	0.0	5.0	.80	2.0	55n	16m	.40	5	C	F40	FL14g
16	7496DC	5	1	PPS	10M	BTX	395m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F457	ML127e
17	7496FC	5	1	PPS	10M	BTX	395m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F457	FL14g
18	7496PC	5	1	PPS	10M	BTX	395m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F457	ML170
19#	FLJ261-7496	5	1	PPS	10M	BTX	415m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F468	ML
20#	FLJ265-8496	5	1	PPS	10M	BTX	415m	0.0	5.0	.80	2.0	40n	16m	.40	2	8	F468	ML
21#	M74LS96P	5	1	PPS	10M	BTX	60m	0.0	5.0	.80	2.0	55n	4.0m	0.4	0	7	F40	ML409
22#	M53296P	5	1	PPS	10M*	BTX	29m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F40	ML5a
23	MC5496L	5	1	PPS	10M	BTX	240m	0.0	5.0	.40%	2.4	40n	16m	.40	5	C	F40	ML127b
24	N7496B	5	1	PPS	10M	BTX	400m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F40	ML85
25	N7496N	5	1	PPS	10M	BTX	395m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F40	MO001AE
26#	RC5496B	5	1	PPS	10M	BTX	340m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F40	ML132
27#	RC5496F	5	1	PPS	10M	BTX	340m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F40	ML61d
28#	RC5496W	5	1	PPS	10M	BTX	340m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F40	FL25
29	S5496B	5	1	PPS	10M	BTX	340m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F40	ML132
30	S5496F	5	1	PPS	10M	BTX	340m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F40	ML61d
31	S5496W	5	1	PPS	10M	BTX	340m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F40	FL25
32	SN54LS96J	5	1	PPS	10M	BTX	60m	0.0	5.0	.70	2.0	55n	4.0m	.40	5	C	F40	ML61a
33	SN54LS96W	5	1	PPS	10M	BTX	60m	0.0	5.0	.70	2.0	55n	4.0m	.40	5	C	F40	MO004AC
34	SN74LS96J	5	1	PPS	10M	BTX	60m	0.0	5.0	.80	2.0	55n	4.0m	.40	0	7	F40	ML61a
35	SN74LS96N	5	1	PPS	10M	BTX	60m	0.0	5.0	.80	2.0	55n	4.0m	.40	0	7	F40	ML48
36	SN5496J	5	1	PPS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	16m	.40	5	C	F40	ML61a
37	SN5496W	5	1	PPS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	16m	.40	5	C	F40	MO004AC
38	SN7496J	5	1	PPS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	16m	.40	0	7	F40	ML61a
39	SN7496N	5	1	PPS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	16m	.40	0	7	F40	ML48
40#	ZN5496E	5	1	PPS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	16m	.40	5	C	F457	ML5f
41#	ZN5496J	5	1	PPS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	16m	.40	5	C	F457	ML85b
42#	ZN7496E	5	1	PPS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	16m	.40	0	7	F457	ML5f
43#	ZN7496J	5	1	PPS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	16m	.40	0	7	F457	ML85b
44	JANM38510/30604BEA	5	1	PPS	17M	BTD	110m	0.0	5.5	.70	2.0	90n	4.0m	.40	5	C	F40	ML143
45	JANM38510/30604BEB	5	1	PPS	17M	BTD	110m	0.0	5.5	.70	2.0	90n	4.0m	.40	5	C	F40	ML143
46	JANM38510/30604BFA	5	1	PPS	17M	BTD	110m	0.0	5.5	.70	2.0	90n	4.0m	.40	5	C	F40	FL31
47	JANM38510/30604BFB	5	1	PPS	17M	BTD	110m	0.0	5.5	.70	2.0	90n	4.0m	.40	5	C	F40	FL31
48	JANM38510/30604CEA	5	1	PPS	17M	BTD	110m	0.0	5.5	.70	2.0	90n	4.0m	.40	5	C	F40	ML143
49	JANM38510/30604CEB	5	1	PPS	17M	BTD	110m	0.0	5.5	.70	2.0	90n	4.0m	.40	5	C	F40	ML143
50	JANM38510/30604CFA	5	1	PPS	17M	BTD	110m	0.0	5.5	.70	2.0	90n	4.0m	.40	5	C	F40	FL31
51	JANM38510/30604CFB	5	1	PPS	17M	BTD	110m	0.0	5.5	.70	2.0	90n	4.0m	.40	5	C	F40	FL31
52	N74LS96F	5	1	PPS	25M	BTD	100m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F40	ML127r
53	N74LS96N	5	1	PPS	25M	BTD	100m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F40	MO001AE
54	S54LS96F	5	1	PPS	25M	BTD	100m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F40	ML127r
55	S54LS96W	5	1	PPS	25M	BTD	100m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F40	FL14d
56#	GFB7496D	5	1	SSS	10M	BTX	240m	0.0	5.0	.80	2.0	55n	18m	0.0	0	7	F40	ML175
57	N8200F	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24bx	ML133
58	N8200N	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24bx	ML135
59	N8200Q	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24bx	FL3b
60	N8201F	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24fy	ML133
61	N8201N	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24fy	ML135
62	N8201Q	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24fy	FL3b
63#	RC8200N	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	F302	ML135
64#	RC8200Q	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	F302	FL3b
65#	RC8201F	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	F302a	ML133
66#	RC8201N	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	F302a	ML135
67#	RC8201Q	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	F302a	FL3b
68	S8200F	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	PN24bx	ML133
69	S8200N	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	PN24bx	ML135
70	S8200Q	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	PN24bx	FL3b
71	S8201F	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	PN24fy	ML133
72	S8201N	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	PN24fy	ML135
73	S8201Q	5	2	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	C	PN24fy	FL3b
74	JANM38510/05701BCA	5	4	SSS	700k	MCX	200m	0.0	5.0	.85	3.95	1.2u	85u	.50	5	C	F251	ML219
75	JANM38510/05701BCB	5	4	SSS	700k	MCX	200m	0.0	5.0	.85	3.95	1.2u	85u	.50	5	C	F251	ML219
76	JANM38510/05701BCC	5	4	SSS	700k	MCX	200m	0.0	5.0	.85	3.95	1.2u	85u	.50	5	C	F251	ML219
77	JANM38510/05701CCA	5	4	SSS	700k	MCX	200m	0.0	5.0	1.25	3.25	800n	85u	.50	5	C	F251	ML219
78	JANM38510/05701CCB	5	4	SSS	700k	MCX	200m	0.0	5.0	1.25	3.25	800n	85u	.50	5	C	F251	ML219
79	JANM38510/05701CCC	5	4	SSS	700k													

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		3 OPER. CODE	4 (MAX) WORST CASE FREQ. (Hz)	5 STRUC TURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (A)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		1 BITS PER REGISTER	2 No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		MIN (A)	MAX (A)			LOGIC/BLOCK	OUTLINE
1#	HBC4006AD	5	4	SSS	2.5M	MCX	600u	0.0	10	.05%	9.9	200n	140u	9.5	5	C	F126	MO001AD
2#	HBC4006AF	5	4	SSS	2.5M	MCX	600u	0.0	10	.05%	9.9	200n	140u	9.5	5	C	F126	MO001AD
3#	HBC4006AK	5	4	SSS	2.5M	MCX	600u	0.0	10	.05%	9.9	200n	140u	9.5	5	C	F126	MO004AF
4	SCL4006ABC	5	4	SSS	3.0M	MCA	300u	0.0	15	4.0	11	240n	1.1m	1.5	5	C	F540	MO001AA
5	SCL4006ABD	5	4	SSS	3.0M	MCA	300u	0.0	15	4.0	11	240n	1.1m	1.5	5	C	F540	ML93g
6	SCL4006ABE	5	4	SSS	3.0M	MCA	300u	0.0	15	4.0	11	240n	1.1m	1.5	4	8	F540	ML93h
7	SCL4006ABF	5	4	SSS	3.0M	MCA	300u	0.0	15	4.0	11	240n	1.1m	1.5	5	C	F540	MO004AF
8	SCL4006ABH	5	4	SSS	3.0M	MCA	300u	0.0	15	4.0	11	240n	1.1m	1.5	5	C	F540	CHZ
9	MC14006BAL	5	4	SSS	6.0M	MCX	300u	0.0	15	4.0	11	160n	3.4m	1.5	5	C	F236	TO116
10	MC14006BCL	5	4	SSS	6.0M	MCX	1.2m	0.0	15	4.0	11	160n	3.0m	1.5	4	8	F236	TO116
11	MC14006BCP	5	4	SSS	6.0M	MCX	1.2m	0.0	15	4.0	11	160n	3.0m	1.5	4	8	F236	ML124
12	SCL4006AC	5	4	SSS	6.0M	MCX	300m	0.0	10	.05%	9.95	200n	140u	9.5	5	C	F126	ML64e
13	SCL4006AD	5	4	SSS	6.0M	MCX	300m	0.0	10	.05%	9.95	200n	140u	9.5	5	C	F126	ML104
14	SCL4006AE	5	4	SSS	6.0M	MCX	300m	0.0	10	.05%	9.95	200n	140u	9.5	4	8	F126	ML93a
15	SCL4006AF	5	4	SSS	6.0M	MCX	300m	0.0	10	.05%	9.95	200n	140u	9.5	5	C	F126	FL11a
16	SCL4006AH	5	4	SSS	6.0M	MCX	300m	0.0	10	.05%	9.95	200n	140u	9.5	5	C	F126	CHZ
17#	HEF4006B	5	4	SSS	10M	MCX	400m	0.0	10	3.0	7.0	60n	2.0m	.50	4	8	F514	TO116
18	CD4006BD	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	5	C	F503	MO001AD
19	CD4006BE	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	4	8	F503	MO001AB
20	CD4006BF	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	5	C	F503	MO001AB
21	CD4006BH	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	5	C	F503	CH1
22#	HCC4006BD	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	5	C	F503	MO001AD
23#	HCC4006BF	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	5	C	F503	MO001AD
24#	HCC4006BK	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	5	C	F503	MO004AF
25#	HCF4006BE	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	4	8	F503	MO001AB
26#	HCF4006BF	5	4	SSS	16M	MCX	500m	0.0	15	4.0	11	80n	6.8m	1.5	4	8	F503	MO001AD
27	4006BDC	5	4	SSS	18M	MCX	9.0m	0.0	15	4.0	11	80n	4.5m	1.5	4	8	F471	TO116
28	4006BDM	5	4	SSS	18M	MCX	9.0m	0.0	15	4.0	11	80n	4.5m	1.5	5	C	F471	TO116
29	4006BFC	5	4	SSS	18M	MCX	9.0m	0.0	15	4.0	11	80n	4.5m	1.5	4	8	F471	TO86
30	4006BFM	5	4	SSS	18M	MCX	9.0m	0.0	15	4.0	11	80n	4.5m	1.5	5	C	F471	TO86
31	4006BPC	5	4	SSS	18M	MCX	9.0m	0.0	15	4.0	11	80n	4.5m	1.5	4	8	F471	ML261
32#	HEF4006BD	5	4	SSS	18M*	MCX	400m	0.0	15	4.0	11	70n	3.0m	1.5	4	8	F471	ML93j
33#	HEF4006BP	5	4	SSS	18M*	MCX	400m	0.0	15	4.0	11	70n	3.0m	1.5	4	8	F471	ML71g
34#	HEF4006P	5	4	SSS	18M*	MCX	400m	0.0	15	4.5	10.5	50n	3.6m		4	8	F471	ML71g
35	MUF5	6	1		2.0M	BDX	375m	0.0	5.0	0.0	5.0	40n			0	7	F380	PL10
36	I100	6	1		5.0M	BDX	450m	4.8	5.2	0.0	5.0	50n			0	7		PLZ
37	M207	6	1		10M	BTX	240m				4.0	2.0			0	7		PLZ
38	M206	6	1		15M	BTX	255m				4.0	2.4			0	7		PLZ
39	F10176DC	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		0	7	F543	ML127s
40	F10176FC	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		0	7	F543	FL14j
41	F10176PC	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		0	7	F543	ML2b
42	F10186DC	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		0	7	F544	ML127s
43	F10186FC	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		0	7	F544	FL14j
44	F10186PC	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		0	7	F544	ML2b
45	F10576DM	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		5	C	F543	ML127s
46	F10576FM	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		5	C	F543	FL14j
47	F10586DM	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		5	C	F544	ML127s
48	F10586FM	6	1	PPS		BEX	457m	5.2	0.0	-1.4	-1.1	4.5n	50m		5	C	F544	FL14j
49	AM25507DC	6	1	PPS		BTD	720m	0.0	5.0	.80	2.0	17n	20m	.50	0	7	F284	ML127k
50	AM25507DM	6	1	PPS		BTD	720m	0.0	5.0	.80	2.0	17n	20m	.50	5	C	F284	ML62c
51	AM25507FM	6	1	PPS		BTD	720m	0.0	5.0	.80	2.0	17n	20m	.50	5	C	F284	FL33b
52	AM25507PC	6	1	PPS		BTD	720m	0.0	5.0	.80	2.0	17n	20m	.50	0	7	F284	ML89a
53#	FLJ361-74118	6	1	PPS		BTX	300m	0.0	5.0	.80	2.0	29n	16m	.40	0	7	F368	ML2k
54#	FLJ365-84118	6	1	PPS		BTX	300m	0.0	5.0	.80	2.0	29n	16m	.40	2	8	F368	ML2k
55#	FLJ371-74119	6	1	PPS		BTX	300m	0.0	5.0	.80	2.0	29n	16m	.40	0	7	F369	ML118g
56#	FLJ375-84119	6	1	PPS		BTX	300m	0.0	5.0	.80	2.0	29n	16m	.40	2	8	F369	ML118g
57#	FLJ531-74174	6	1	PPS		BTX	177m	0.0	5.0	.80	2.0	15n	16m	.40	0	7	F350	ML2k
58#	FLJ535-84174	6	1	PPS		BTX	177m	0.0	5.0	.80	2.0	15n	16m	.40	2	8	F350	ML2k
59#	HEF40174P	6	1	PPS		MCX	400m	0.0	10	3.0	7.0	45n	2.0m	.50	4	8	F405	MLZ
60#	uPB10176D	6	1	PPS	150m%	MCX	400m	0.0	10	-1.8*	-80#	2.0n			4	8	F405	ML127s
61#	uPD122C	6	1	PPS	150k	MX	550m	0.0	5.0	-9.3*	-3.7#	4.0u	80u	-13	2	7	F418	MO001AA
62	MC14174BAL	6	1	PPS	6.5M	MCX	300u	0.0	15	4.0	11	150n	3.4m	1.5	5	C	F399	ML157a
63	MC14174BCL	6	1	PPS	6.5M	MCX	1.2m	0.0	15	4.0	11	150n	3.0m	1.5	4	8	F399	ML157a
64	MC14174BCP	6	1	PPS	6.5M	MCX	1.2m	0.0	15	4.0	11	150n	3.0m	1.5	4	8	F399	ML145
65	340174DC	6	1	PPS	16M	MCX	4.0m	0.0	10	3.0	7.0	45n	1.2m	.50	4	8	F412	ML127s
66	340174DM	6	1	PPS	16M	MCX	2.0m	0.0	10	3.0	7.0	45n	1.2m	.50	5	C	F412	ML127s
67	340174FC	6	1	PPS	16M	MCX	4.0m	0.0	10	3.0	7.0	45n	1.2m	.50	4	8	F412	FL14g
68	340174FM	6	1	PPS	16M	MCX	2.0m	0.0	10	3.0	7.0	45n	1.2m	.50	5	C	F412	FL14g
69	340174PC	6	1	PPS	16M	MCX	4.0m	0.0	10	3.0	7.0	45n	1.2m	.50	4	8	F412	ML170
70#	HEF40174B	6	1	PPS	18M	MCX	400m	0.0	10	3.0	7.0	45n	2.0m	.50	4	8	F405	ML2g
71#	HEF40174BD	6	1	PPS	20M*	MCX	400m	0.0	15	4.0	11	50n	3.0m	1.5	4	8	F412	ML127x
72#	HEF40174BP	6	1	PPS	20M*	MCX	400m	0.0	15	4.0	11	50n	3.0m	1.5	4	8	F412	ML89j
73	JANM38510/30106BEA	6	1	PPS	25M	BTD	143m	0.0	5.5	.70	2.0	52n	4.0m	.40	5	C	F350	ML143
74	JANM38510/30106BEB	6	1	PPS	25M	BTD	143m	0.0	5.5	.70	2.0	52n	4.0m	.40	5	C	F350	ML143
75	JANM38510/30106BFA	6	1	PPS	25M	BTD	143m	0.0	5.5	.70	2.0	52n	4.0m	.40	5	C	F350	FL31
76	JANM38510/30106BFB	6	1	PPS	25M	BTD	143m	0.0	5.5	.70	2.0	52n	4.0m	.40	5	C	F350	FL31
77	JANM38510/30106CEA	6	1	PPS	25M	BTD	143m	0.0	5.5	.70	2.0	52n	4.0m	.40	5	C	F350	ML143
78	JANM38510/30106CEB	6	1	PPS	25M	BTD	143m	0.0	5.5	.70	2.0	52n	4.0m	.40	5	C	F350	ML143
79	JANM38510/30106CFA	6	1	PPS	25M	BTD	143m	0.0	5.5	.70	2.0	52n	4.0m	.40	5	C	F350	ML143
80	JANM38510/30106CFB	6	1															

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE (°C)	DRAWINGS	
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		@ OUT (V)	LOGIC/BLOCK			OUTLINE	
1	SN74LS174J	6	1	PPS	30M	BTD	130m	0.0	5.0	80	2.0	35n	8.0m	.50	0	7	F350	ML331
2	SN74LS174N	6	1	PPS	30M	BTD	130m	0.0	5.0	80	2.0	35n	8.0m	.50	0	7	F350	ML331
3	SN74LS174W	6	1	PPS	30M	BTD	130m	0.0	5.0	80	2.0	28n	8.0m	.50	0	7	F350	FL63
4	SN74LS378J	6	1	PPS	30M	BTD	135m	0.0	5.0	80	2.0	27m	4.0m	.40	0	7	F451	ML331
5	SN74LS378N	6	1	PPS	30M	BTD	135m	0.0	5.0	80	2.0	27m	4.0m	.40	0	7	F451	ML331
6	SN74LS378W	6	1	PPS	30M	BTD	135m	0.0	5.0	80	2.0	27m	4.0m	.40	0	7	F451	FL63
7	54LS174J	6	1	PPS	35M	BTD	130m	0.0	5.0	70	2.0	25m	4.0m	.40	5	C	F350	ML17
8	54LS174W	6	1	PPS	35M	BTD	130m	0.0	5.0	70	2.0	25m	4.0m	.40	5	C	F350	FL14h
9	AM25LS07DC	6	1	PPS	40M	BTD	130m	0.0	5.0	80	2.0	20n	8.0m	.45	5	C	F284	ML127k
10	AM25LS07DM	6	1	PPS	40M	BTD	130m	0.0	5.0	70	2.0	20n	8.0m	.45	5	C	F284	ML62c
11	AM25LS07FM	6	1	PPS	40M	BTD	130m	0.0	5.0	70	2.0	20n	8.0m	.45	5	C	F284	FL33b
12	AM25LS07PC	6	1	PPS	40M	BTD	130m	0.0	5.0	80	2.0	20n	8.0m	.45	5	C	F284	ML89a
13	AM25LS174DC	6	1	PPS	40M	BTD	130m	0.0	5.0	80	2.0	20n	8.0m	.45	5	C		
14	AM25LS174DM	6	1	PPS	40M	BTD	130m	0.0	5.0	70	2.0	20n	8.0m	.45	5	C		
15	AM25LS174FM	6	1	PPS	40M	BTD	130m	0.0	5.0	70	2.0	20n	8.0m	.45	5	C		
16	AM25LS174PC	6	1	PPS	40M	BTD	130m	0.0	5.0	80	2.0	20n	8.0m	.45	5	C		
17	9LS174DC	6	1	PPS	55M	BTD	136m	0.0	5.25	80	2.0	20n	4.0m	.40	0	7	F405	ML127s
18	9LS174DM	6	1	PPS	55M	BTD	143m	0.0	5.0	70	2.0	20n	4.0m	.40	5	C	F405	ML127s
19	9LS174FC	6	1	PPS	55M	BTD	136m	0.0	5.25	80	2.0	20n	4.0m	.40	0	7	F405	FL14g
20	9LS174FM	6	1	PPS	55M	BTD	143m	0.0	5.0	70	2.0	20n	4.0m	.40	5	C	F405	FL14g
21	9LS174PC	6	1	PPS	55M	BTD	136m	0.0	5.25	80	2.0	20n	4.0m	.40	0	7	F405	ML170
22#	M74LS174P	6	1	PPS	55M	BTD	136m	0.0	5.0	0.8	2.0	20n	4.0m	0.4	0	7	F405	ML409
23	SN54S174J	6	1	PPS	75M	BTX	720m	0.0	5.0	80	2.0	22n	20m	.50	5	C	F350	ML61a
24	SN54S174W	6	1	PPS	75M	BTX	720m	0.0	5.0	80	2.0	22n	20m	.50	5	C	F350	MO004A
25	SN74S174J	6	1	PPS	75M	BTX	720m	0.0	5.0	80	2.0	22n	20m	.50	0	7	F350	ML61a
26	SN74S174N	6	1	PPS	75M	BTX	720m	0.0	5.0	80	2.0	22n	20m	.50	0	7	F350	ML48
27	10176F	6	1	PPS	150M	BEX	460m	5.2	0.0	-1.6	-0.96	4.0n			3	8	F349	ML127m
28	MC10176L	6	1	PPS	150M	BEX	460m	5.0	0.0	-1.4	-1.1	4.5n			3	8	F349	ML61e
29	MC10176P	6	1	PPS	150M	BEX	460m	5.0	0.0	-1.4	-1.1	4.5n			3	8	F349	ML145
30	MC10186L	6	1	PPS	150M	BEX	460m	5.0	0.0	-1.6	-0.96	2.5n			3	8	F378	ML61e
31	F100151DC	6	1	PPS	400M	BEX	891m	4.5	0.0	-1.4	-1.1	3.0n			0	8	F545	ML133h
32	F100151FC	6	1	PPS	400M	BEX	891m	4.5	0.0	-1.4	-1.1	3.0n			0	8	F545	FL48
33	RH806	6	1	SPS	500k	BDX	2.3	0.0	15	1.0	15				0	7	F265	
34	RD806	6	1	SPS	5.0M	BDX	850m	0.0	5.0	30	5.0				0	7	F265	
35#	RC8275B	8	1			MNG	1.5	12	5.0	.65	3.0		1.6m	.45	0	7	B163b	ML256
36#	RC8275E	8	1			MNG	800m	12	5.0	.65	3.0		1.6m	.40	2	8	B296b	ML272
37#	RC8275R	8	1			MNG	1.5	12	5.0	.65	3.0		1.6m	.45	2	8	B163	ML34c
38	CM4014AD	8	8	PSS	1.5M	MCX	200m	0.0	5.0	0.1%	4.99	750n			5	C	F79	ML4g
39	MGF8	8	1		2.0M		500m	0.0	5.0	0.0	5.0	25n			0	7	F383	PL10
40	I106	8	1		5.0M	BDX	600m	4.8	5.2	0.0	5.0	50n			0	7		PL
41	I107	8	1		5.0M	BDX	600m	4.8	5.2	0.0	5.0	50n			0	7		PL
42	M203	8	1		20M	BTX	175m	0.0	5.0	40	2.4	30n			0	7		PL
43	93L38DC	8	1	PPS		BTX	165m	0.0	5.0	80	2.0	95n	8.0m	.30	0	7	F254	ML127e
44	93L38DM	8	1	PPS		BTX	165m	0.0	5.0	70	2.0	95n	4.8m	.30	5	C	F254	ML127e
45	93L38FC	8	1	PPS		BTX	165m	0.0	5.0	80	2.0	95n	8.0m	.30	0	7	F254	FL14g
46	93L38FM	8	1	PPS		BTX	165m	0.0	5.0	70	2.0	95n	4.8m	.30	5	C	F254	ML170
47	93L38PC	8	1	PPS		BTX	165m	0.0	5.0	80	2.0	95n	8.0m	.30	0	7	F254	ML127e
48	9338DC	8	1	PPS		BTX	650m	0.0	5.0	80	2.0	50n	16m	.40	0	7	F254	ML127e
49	9338DM	8	1	PPS		BTX	650m	0.0	5.0	80	2.0	50n	16m	.40	5	C	F254	ML127e
50	9338FC	8	1	PPS		BTX	650m	0.0	5.0	80	2.0	50n	16m	.40	0	7	F254	FL14g
51	9338FM	8	1	PPS		BTX	650m	0.0	5.0	80	2.0	50n	16m	.40	5	C	F254	FL14g
52	9338PC	8	1	PPS		BTX	650m	0.0	5.0	80	2.0	50n	16m	.40	0	7	F254	ML170
53	AM93L38DC	8	1	PPS		BTX	185m	0.0	5.0	70	2.0	100n	4.9m	.30	0	7	F254	ML127d
54	AM93L38DM	8	1	PPS		BTX	185m	0.0	5.0	70	2.0	100n	4.9m	.30	5	C	F254	ML62c
55	AM93L38FM	8	1	PPS		BTX	185m	0.0	5.0	70	2.0	100n	4.9m	.30	5	C	F254	FL33b
56	AM93L38PC	8	1	PPS		BTX	185m	0.0	5.0	70	2.0	100n	4.9m	.30	0	7	F254	ML89a
57	AM9338DC	8	1	PPS		BTX	495m	0.0	5.0	80	2.0	42n	16m	.40	0	7	F254	ML127k
58	AM9338DM	8	1	PPS		BTX	495m	0.0	5.0	80	2.0	42n	16m	.40	5	C	F254	ML62c
59	AM9338FM	8	1	PPS		BTX	495m	0.0	5.0	80	2.0	42n	16m	.40	5	C	F254	FL33b
60	AM9338PC	8	1	PPS		BTX	495m	0.0	5.0	80	2.0	42n	16m	.40	0	7	F254	ML89a
61#	HCC4034BD	8	1	PPSS	6.0m	MCX	500m	0.0	15	4.0	11	140n	6.8m	1.5	5	C	F508	MO015AC
62#	HCF4034BD	8	1	PPSS	6.0m	MCX	500m	0.0	15	4.0	11	140n	6.8m	1.5	4	8	F508	MO015AG
63#	HCF4034BE	8	1	PPSS	6.0m	MCX	500m	0.0	15	4.0	11	140n	6.8m	1.5	4	8	F508	MO015AA
64	67S376N	8	1	PPS	75m	BTD	700m	0.0	5.0	80	2.0	10n	20m	.50	0	7	F531	ML
65	3800-4-6H	8	1	PPS	200k	MXX	180m	27	0.0	-2.0	-1.0	5.0u			5	8	F171	ML70
66	3800-9-6H	8	1	PPS	200k	MXX	180m	27	0.0	-2.0	-1.0	5.0u			0	7	F171	ML70
67	SCL4034ABC	8	1	PPS	2.5M	MCA	300u	0.0	10	0.05%	9.95	480n	175u	.50	5	C	F177	ML39a
68	SCL4034ABD	8	1	PPS	3.0M	MCA	300u	0.0	15	4.0	11	400n	1.1m	1.5	5	C	F177	ML39b
69	SCL4034ABE	8	1	PPS	3.0M	MCA	300u	0.0	15	4.0	11	400n	1.1m	1.5	4	8	F177	
70	SCL4034ABH	8	1	PPS	3.0M	MCA	300u	0.0	15	4.0	11	400n	1.1m	1.5	5	C	F177	CH
71	CD4034AD	8	1	PPS	3.0M	MCX	6.0m	0.0	10	0.05%	9.95	480n	175u	.50	5	C	F177	MO015AC
72	CD4034AE	8	1	PPS	3.0M	MCX	14m	0.0	10	0.05%	9.95	480n	175u	.50	4	8	F177	MO001A
73	CD4034AH	8	1	PPS	3.0M	MCX	6.0m	0.0	10	0.05%	9.95	480n	175u	.50	5	C	F177	CH4
74#	HBF4034AD	8	1	PPS	3.0M	MCX	14m	0.0	10	0.05%	9.95	480n	175u	.50	4	8	F177	ML23b
75#	HBF4034AE	8	1	PPS	3.0M	MCX	14m	0.0	10	0.05%	9.95	480n	175u	.50	4	8	F177	ML88g
76	AM25L02DC	8	1	PPS	3.5M	BTX	175m	0.0	5.0	70	2.0	140n	4.9m	.30	0	7	F257	ML62
77	AM25L02DM	8	1	PPS	3.5M	BTX	165m	0.0	5.0	70	2.0	140n	4.9m	.30	5	C	F257	ML62
78	AM25L02FM	8	1	PPS	3.5M	BTX	165m	0.0	5.0	70	2.0	140n	4.9m	.30	5	C	F257	FL33
79	AM25L02PC	8	1	PPS	3.5M	BTX	175m	0.0	5.0	70	2.0	140n	4.9m	.30	0	7	F257	ML89a
80	AM25L03DC	8	1	PPS	3.5M	BTX	165m	0.0	5.0	70	2.0	140n	4.9m	.30	0	7	F257	ML62
81	AM25L03DM	8	1	PPS	3.5M	BTX	155m	0.0	5.0	70	2.0	140n	4.9m	.30	5			

7. SHIFT REGISTERS

IN ORDER OF (1)No.BITS/REG(2)No.REGISTERS
(3)OP.CODE(4)MAX W/C FREQ(5)STRUCT(6)TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	4 MAX CASE FREQ. (Hz)	5 STRUC TURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS		
		1 BITS PER REGISTER	2 No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		A	V			LOGIC/BLOCK	OUTLINE	
1#	uPB2091D	8	1	PPS	18M	BTX	175m	0.0	5.0	.80	2.0						F404	ML93f	
2	54165DM	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F107	ML127k	
3	54165FM	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F107	ML14g	
4	74185DC	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F107	ML127k	
5	74185FC	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F107	ML14g	
6	74185PC	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F107	ML170	
7#	M53365P	8	1	PPS	20M	BTX	210m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F107	ML5a	
8	N74185B	8	1	PPS	20M	BTX	210m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F107	ML132	
9	N74185N	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	24n	16m	.40	0	7	F107	MO001AE	
10#	RC54185B	8	1	PPS	20M	BTX	210m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F107	ML132	
11#	RC54185F	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F107	ML61d	
12#	RC54185W	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F107	FL25	
13	S54185B	8	1	PPS	20M	BTX	210m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F107	ML132	
14	S54185F	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F107	ML61d	
15	S54185W	8	1	PPS	20M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	5	C	F107	FL25	
16	74LS23FC	8	1	PPS	25M	BTD	300m	0.0	5.0	.80	2.0	2.0s	29n	4.0m	.40	0	7	F429	FLJ
17	54166DM	8	1	PPS	25M	BTX	635m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F88	ML127e	
18	54166FM	8	1	PPS	25M	BTX	635m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F88	FL14g	
19	54198DM	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F89	ML133g	
20	54198FM	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F89	FL47	
21	54199DM	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	ML133g	
22	54199FM	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	FL47	
23	74166DC	8	1	PPS	25M	BTX	635m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F88	ML127e	
24	74166FC	8	1	PPS	25M	BTX	635m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F88	FL14g	
25	74166PC	8	1	PPS	25M	BTX	635m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F88	ML170	
26	74198DC	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F89	ML133g	
27	74198FC	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F89	FL47	
28	74198PC	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F89	ML216	
29	74199DC	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F90	ML133g	
30	74199FC	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F90	FL47	
31	74199PC	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F90	ML216	
32#	FLJ311-74198	8	1	PPS	25M	BTX	610m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F89	MLJ	
33#	FLJ315-84198	8	1	PPS	25M	BTX	610m	0.0	5.0	.80	2.0	35n	16m	.40	2	8	F89	MLJ	
34#	FLJ321-74199	8	1	PPS	25M	BTX	610m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F90	MLJ	
35#	FLJ325-84199	8	1	PPS	25M	BTX	610m	0.0	5.0	.80	2.0	35n	16m	.40	2	8	F90	MLJ	
36#	FLJ461-74166	8	1	PPS	25M	BTX	610m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F88	MLJ	
37#	FLJ465-84166	8	1	PPS	25M	BTX	610m	0.0	5.0	.80	2.0	35n	16m	.40	2	8	F88	MLJ	
38#	M53364P	8	1	PPS	25M	BTX	21m	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F179	TO116	
39#	M53398P	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F89		
40#	M53399P	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F90		
41	N74166B	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F88	ML132	
42	N74198F	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F89	ML133	
43	N74198N	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F89	ML135	
44	N74199F	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F90	ML133	
45	N74199N	8	1	PPS	25M	BTX	580m	0.0	5.0	.80	2.0	35n	16m	.40	0	7	F90	ML135	
46#	RC54166B	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F88	ML132	
47#	RC54166F	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F88	ML127m	
48#	RC54166W	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F88	FL25	
49#	RC54198F	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F89	ML133	
50#	RC54198N	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F89	ML135	
51#	RC54198Q	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F89	FL3b	
52#	RC54199F	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	ML133	
53#	RC54199N	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	ML135	
54#	RC54199Q	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	FL3b	
55	S54166B	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F88	ML132	
56	S54166F	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F88	ML127m	
57	S54166W	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F88	FL25	
58	S54198F	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F89	ML133	
59	S54198N	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F89	ML135	
60	S54198Q	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F89	FL3b	
61	S54198W	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	26n	16m	.40	5	C	F89	FL3b	
62	S54199F	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	ML133	
63	S54199N	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	ML135	
64	S54199Q	8	1	PPS	25M	BTX	520m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	FL3b	
65#	S54199W	8	1	PPS	25M	BTX	728m	0.0	5.0	.80	2.0	35n	16m	.40	5	C	F90	FL3d	
66	SN54198J	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F89	MO015AA	
67	SN54198W	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F89	MO019AA	
68	SN54199J	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F90	MO015AA	
69	SN54199W	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	5	C	F90	MO019AA	
70	SN74198J	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F89	MO015AA	
71	SN74198N	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F89	ML72	
72	SN74199J	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F90	MO015AA	
73	SN74199N	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	F90	ML72	
74#	ZN74166J	8	1	PPS	25M	BTX	360m	0.0	5.0	.80	2.0	30n	16m	.40	0	7	PN16fh	ML85b	
75	N74165F	8	1	PPS	26M	BTX	315m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F107	ML127m	
76	74LS273PC	8	1	PPS	30M	BTD	140m	0.0	5.0	.80	2.0	22n	8.0m	.50	0	7	F449	ML326	
77	74LS377PC	8	1	PPS	30M	BTD	140m	0.0	5.0	.80	2.0	27n	8.0m	.50	0	7	F432	ML326	
78	AM25LS273DC	8	1	PPS	30M	BTD	0.0	0.0	5.0	.80	2.0	35n	8.0m	.45	0	7	F449	ML377	
79	AM25LS273DM	8	1	PPS	30M	BTD	0.0	0.0	5.0	.70	2.0	35n	8.0m	.45	5	C	F449	ML377	
80	AM25LS273FM	8	1	PPS	30M	BTD	0.0	0.0	5.0	.70	2.0	35n	8.0m</						

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		3] OPER. CODE	4] MAX WORST CASE FREQ. (Hz)	5] STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT		MIN OPER. TEMP. RANGE (Hz)	DRAWINGS		
		1] BITS PER REGISTER	2] No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		@ OUT (V)	LOGIC/BLOCK		OUTLINE		
																	+	-
1	SN74273J	8	1	PPS	30MΔ	BTX	470m	0.0	5.0	.80	2.0	27n∅	18m	.40	0	7	F449	ML213
2	SN74273N	8	1	PPS	30MΔ	BTX	470m	0.0	5.0	.80	2.0	27n∅	16m	.40	0	7	F449	ML161
3#	uPB2198D	8	1	PPS	30M	BTX	360m	0.0	5.0	.80	2.0				2	7	PN24gb	ML205
4	9LS164DC	8	1	PPS	35MΔ	BTD	141m*	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F403	TO116
5	9LS164DM	8	1	PPS	35MΔ	BTD	148m*	0.0	5.0	.70	2.0	27n	4.0m	.40	5	5	F403	TO116
6	9LS164FC	8	1	PPS	35MΔ	BTD	141m*	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F403	TO86
7	9LS164FM	8	1	PPS	35MΔ	BTD	148m*	0.0	5.0	.70	2.0	27n	4.0m	.40	5	5	F403	TO86
8	9LS164PC	8	1	PPS	35MΔ	BTD	141m*	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F403	ML233
9	54LS299DM	8	1	PPSS*	35M*	BTD	325m	0.0	5.0	.70	2.0s	33n	4.0m	.40	5	5	F427	ML376
10	54LS299FM	8	1	PPSS*	35M*	BTD	325m	0.0	5.0	.70	2.0s	33n	4.0m	.40	5	5	F427	FL71
11	54LS322DM	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.70	2.0s	33n	4.0m	.40	5	5	F428	ML2
12	54LS322FM	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.70	2.0s	33n	4.0m	.40	5	5	F428	FL2
13	54LS323DM	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.70	2.0s	29n	4.0m	.40	5	5	F429	ML2
14	54LS323FM	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.70	2.0s	29n	4.0m	.40	5	5	F429	FL2
15	57LS376J	8	1	PPS	35MΔ	BTD	200m	0.0	5.0	.80	2.0s	10n†	12m	.50	5	5	F531	ML2
16	67LS376J	8	1	PPS	35MΔ	BTD	200m	0.0	5.0	.80	2.0s	10n†	24m	.50	0	7	F531	ML2
17	67LS376N	8	1	PPS	35MΔ	BTD	200m	0.0	5.0	.80	2.0s	10n†	24m	.50	0	7	F531	ML2
18	74LS299PC	8	1	PPS	35M	BTD	325m	0.0	5.0	.80	2.0s	33n	8.0m	.50	0	7	F427	ML326
19	74LS322DC	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	33n	4.0m	.40	0	7	F428	ML2
20	74LS322FC	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	33n	4.0m	.40	0	7	F428	FL2
21	74LS322PC	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	33n	4.0m	.40	0	7	F428	ML326
22	74LS323DC	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	29n	4.0m	.40	0	7	F429	ML2
23	74LS323PC	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	29n	4.0m	.40	0	7	F429	ML326
24	74LS374PC	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.80	2.0s	34n	24m	.50	0	7	F430	ML326
25	74LS574PC	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	34n	24m	.50	0	7	F430a	ML326
26#	M74LS164P	8	1	PPS	35M†Δ	BTD	141m	0.0	5.0	0.8	2.0	27n	4.0m	0.4	0	7	F403	ML409
27#	M74LS323P	8	1	PPS	35M∅	BTD	300m	0.0	5.0	0.8	2.0	39n	24m	0.5	0	7	F429	ML409
28#	M74LS374P	8	1	PPS	35M∅	BTD	225m	0.0	5.0	0.8	2.0	34n∅	24m	0.5	0	7	F359	ML2
29	N74LS299F	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0	39n	24m	.50	0	7	F427	ML285
30	N74LS299N	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0	39n	24m	.50	0	7	F427	ML286
31	N74LS323F	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0	39n	24m	.50	0	7	F429	ML285
32	N74LS323N	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0	39n	24m	.50	0	7	F429	ML286
33	S54LS299F	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0	39n	12m	.40	5	5	F427	ML285
34	S54LS323F	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0	39n	12m	.40	5	5	F429	ML285
35	SN54LS322J	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.70	2.0s	39n	4.0m	.40	5	5	F428	ML334
36	SN54LS322W	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.70	2.0s	39n	4.0m	.40	5	5	F428	FL65
37	SN54LS323J	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.70	2.0s	35n	12m	.40	5	5	F281	ML334
38	SN54LS323W	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.70	2.0s	35n	4.0m	.40	5	5	F429	FL65
39	SN54LS373J	8	1	PPS	35M∅	BTD	200m	0.0	5.0	.70	2.0s	36n∅	12m	.40	5	5	F553	ML334
40	SN54LS374J	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.70	2.0s	34n∅	12m	.40	5	5	F359	ML334
41	SN54LS374W	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.70	2.0s	34n∅	4.0m	.40	5	5	F430	FL65
42	SN54LS574J	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.70	2.0s	34n∅	12m	.40	5	5	F430a	ML334
43	SN54LS574W	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.70	2.0s	34n∅	12m	.40	5	5	F430a	FL65
44	SN74LS299W	8	1	PPS*	35M∅	BTD	300m	0.0	5.0	.80	2.0	35n∅	24m	.50	0	7	F281	FL65
45	SN74LS322J	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	35n∅	4.0m	.40	0	7	F428	ML334
46	SN74LS322N	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	35n∅	4.0m	.40	0	7	F428	ML334
47	SN74LS322W	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	35n∅	4.0m	.40	0	7	F428	FL65
48	SN74LS323J	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	35n	24m	.50	0	7	F281	ML334
49	SN74LS323W	8	1	PPS	35M∅	BTD	300m	0.0	5.0	.80	2.0s	35n	24m	.50	0	7	F281	ML334
50	SN74LS323N	8	1	PPS	35M∅	BTD	200m	0.0	5.0	.80	2.0s	25n∅	12m	.40	0	7	F554	FL65
51	SN74LS373J	8	1	PPS	35M∅	BTD	200m	0.0	5.0	.80	2.0s	36n∅	12m	.40	0	7	F554	ML213a
52	SN74LS373N	8	1	PPS	35M∅	BTD	200m	0.0	5.0	.80	2.0s	36n∅	12m	.40	0	7	F554	ML161†
53	SN74LS374J	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.80	2.0s	34n∅	24m	.50	0	7	F359	ML334
54	SN74LS374N	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.80	2.0s	34n∅	24m	.50	0	7	F359	ML334
55	SN74LS374W	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.80	2.0s	34n∅	24m	.50	0	7	F359	FL65
56	SN74LS574J	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.80	2.0s	34n∅	24m	.50	0	7	F430a	ML334
57	SN74LS574N	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.80	2.0s	34n∅	24m	.50	0	7	F430a	ML334
58	SN74LS574W	8	1	PPS	35M∅	BTD	225m	0.0	5.0	.80	2.0s	34n∅	24m	.50	0	7	F430a	FL65
59#	uPB74198C	8	1	PPS	35MΔ	BTX	360m†	0.0	5.0	.80	2.0		16m	.40	0	7	F89	ML133d
60	74LS299DC	8	1	PPS	35M*	PPS	325m	0.0	5.0	.80	2.0s	33n	8.0m	.50	0	7	F427	ML376
61	74LS299FC	8	1	PPS	35M*	PPS	325m	0.0	5.0	.80	2.0s	33n	8.0m	.50	0	7	F427	FL71
62	AM25LS2520DC	8	1	PPS	40M†	BTD	185m	0.0	5.0	.80	2.0s	24n†	8.0m	.45	0	7	F557	ML162d
63	AM25LS2520DM	8	1	PPS	40M†	BTD	185m	0.0	5.0	.70	2.0s	24n†	8.0m	.45	5	5	F557	ML162d
64	AM25LS2520PC	8	1	PPS	40M†	BTD	185m	0.0	5.0	.70	2.0s	24n†	8.0m	.45	0	7	F557	ML197c
65	SN54S299J	8	1	PPS*	50M	BTD	1.2	0.0	5.0	.80	2.0s	24n	20m	.50	5	5	F281	ML213
66	SN74S299J	8	1	PPS*	50M	BTD	1.2	0.0	5.0	.80	2.0s	24n	20m	.50	0	7	F281	ML213
67	SN74S299N	8	1	PPS*	50M	BTD	1.2	0.0	5.0	.80	2.0s	24n	20m	.50	0	7	F281	ML161
68	57S374J	8	1	PPS	75MΔ	BTD	700m	0.0	5.0	.80	2.0s	10n†	32m	.50	5	5	F450	ML2
69	57S376J	8	1	PPS	75MΔ	BTD	700m	0.0	5.0	.80	2.0s	10n†	20m	.50	5	5	F531	ML2
70	57S378J	8	1	PPS	75MΔ	BTD	700m	0.0	5.0	.80	2.0s	10n†	32m	.50	5	5	F531	ML2
71	67S374J	8	1	PPS	75MΔ	BTD	700m	0.0	5.0	.80	2.0s	10n†	32m	.50	0	7	F450	ML2
72	67S374N	8	1	PPS	75MΔ	BTD	700m	0.0	5.0	.80	2.0s	10n†	32m	.50	0	7	F450	ML2
73	67S376J	8	1	PPS	75MΔ	BTD	700m	0.0	5.0	.80	2.0s	10n†	20m	.50	0	7	F531	ML2
74	67S378J	8	1	PPS	75MΔ	BTD	700m	0.0	5.0	.80	2.0s	10n†	32m	.50	0	7	F531	ML2
75	67S378N	8	1	PPS	75MΔ	BTD	700m	0.0	5.0	.80	2.0s	10n†	32m	.50	0	7	F531	ML2
76	SN54S373J	8	1	PPS	75M∅	BTD	800m	0.0	5.0	.80	2.0s	18nΔ	20m	.50	5	5	F554	ML334
77	SN54S374J	8	1	PPS	75M∅	BTD	800m	0.0	5.0	.80	2.0s	18nΔ	20m	.50	5	5	F359	ML213
78	SN74S373J	8	1	PPS	75M∅	BTD	800m	0.0	5.0	.80	2.0s	18nΔ	20m	.50	0			

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN SINK CURRENT (A)	OUTPUT @ OUT (V)	MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)						LOGIC/ BLOCK	OUTLINE
1	JANM38510/05704CEA	8	1	PSS	700k	MCX	200mW	0.0	5.0	1.25	3.25	1.4u	85u%	.50	5	C	F463	ML220
2	JANM38510/05704CEB	8	1	PSS	700k	MCX	200mW	0.0	5.0	1.25	3.25	1.4u	85u%	.50	5	C	F463	ML220
3	JANM38510/05704CEC	8	1	PSS	700k	MCX	200mW	0.0	5.0	1.25	3.25	1.4u	85u%	.50	5	C	F463	ML220
4	JANM38510/05704CFA	8	1	PSS	700k	MCX	200mW	0.0	5.0	1.25	3.25	1.4u	85u%	.50	5	C	F463	FL31
5	CM4014AE	8	1	PSS	1.0M	MCX	200mW	0.0	5.0	0.1%	4.99	1.0u	85u%	.50	4	8	F79	ML4g
6	TP4014AJ	8	1	PSS	1.3MΔ	MCX	14m+	0.0	10	0.05%	9.95	400n	140u	9.5	4	8	F354	ML61a
7	TP4014AN	8	1	PSS	1.3MΔ	MCX	14m+	0.0	10	0.05%	9.95	400n	140u	9.5	4	8	F354	ML48
8	TP4021AJ	8	1	PSS	1.3MΔ	MCX	14m+	0.0	10	0.05%	9.95	400n	140u	9.5	4	8	F354	ML61a
9	TP4021AN	8	1	PSS	1.3MΔ	MCX	14m+	0.0	10	0.05%	9.95	400n	140u	9.5	4	8	F354	ML48
10	TF4014AJ	8	1	PSS	1.8MΔ	MCX	6.0m+	0.0	10	0.05%	9.95	300n	140u	9.5	5	C	F354	ML61a
11	TF4014AN	8	1	PSS	1.8MΔ	MCX	6.0m+	0.0	10	0.05%	9.95	300n	140u	9.5	5	C	F354	ML48
12	TF4021AJ	8	1	PSS	1.8MΔ	MCX	6.0m+	0.0	10	0.05%	9.95	300n	140u	9.5	5	C	F354	ML61a
13	TF4021AN	8	1	PSS	1.8MΔ	MCX	6.0m+	0.0	10	0.05%	9.95	300n	140u	9.5	5	C	F354	ML48
14	CD4014AE	8	1	PSS	2.5MΩ	MCX	14m+	0.0	10	0.05%	9.95	300n	80u%	9.5	4	8	F79	MO001AC
15	CD4014AY	8	1	PSS	2.5MΩ	MCX	14m+	0.0	10	0.05%	9.95	300n	80u%	9.5	4	8	F79	MO001AC
16	CD4021AE	8	1	PSS	2.5MΩ	MCX	1.4m+	0.0	10	0.05%	9.95	300n	80u%	9.5	4	8	F149	MO001AC
17	CD4021AY	8	1	PSS	2.5MΩ	MCX	1.4m+	0.0	10	0.05%	9.95	300n	80u%	9.5	4	8	F149	MO001AC
18#	HBF4014AE	8	1	PSS	2.5MΩ	MCX	14m+	0.0	10	0.05%	9.9	300n	80u%	9.5	4	8	F79	MO001AC
19#	HBF4014AF	8	1	PSS	2.5MΩ	MCX	14m+	0.0	10	0.05%	9.9	300n	80u%	9.5	4	8	F79	ML127c
20#	HBF4021AE	8	1	PSS	2.5MΩ	MCX	14m+	0.0	10	0.05%	9.9	300n	80u%	9.5	4	8	F149	MO001AC
21#	HBF4021AF	8	1	PSS	2.5MΩ	MCX	14m+	0.0	10	0.05%	9.9	300n	80u%	9.5	4	8	F149	ML127c
22	SCL4014BF	8	1	PSS	3.0MΩ	MCA	300u+	0.0	10	0.05%	9.95	300n	900u	.50	5	C	PN16dj	MO004AH
23	CD4014AD	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F79	MO001AE
24	CD4014AF	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F79	MO001AE
25	CD4014AH	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F79	CH2
26	CD4014AK	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F79	MO004AG
27	CD4021AD	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F149	MO001AE
28	CD4021AF	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F149	MO001AE
29	CD4021AH	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F149	CH2
30	CD4021AK	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F149	MO001AE
31	CM4014AF	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F79	ML19a
32	CM4021AF	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	F149	ML19a
33#	HBC4014AD	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.9	225n	140u%	9.5	5	C	F79	ML127c
34#	HBC4014AF	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.9	225n	140u%	9.5	5	C	F79	ML127c
35#	HBC4014AK	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.9	225n	140u%	9.5	5	C	F79	MO004AG
36#	HBC4021AD	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.9	225n	140u%	9.5	5	C	F149	ML127c
37#	HBC4021AF	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.9	225n	140u%	9.5	5	C	F149	ML127c
38#	HBC4021AK	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.9	225n	140u%	9.5	5	C	F149	MO004AG
39#	HBC4034AD	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.9	480n	88u	9.5	5	C	F177	MO015AG
40#	HBC4034AK	8	1	PSS	3.0MΩ	MCX	6.0m+	0.0	10	0.05%	9.9	480n	88u	9.5	5	C	F177	MO015AG
41	SCL4014BC	8	1	PSS	4.0MΩ	MCA	300u+	0.0	15	4.0	11	240n	3.4mΩ	1.5	5	C	F541	ML127t
42	SCL4014BD	8	1	PSS	4.0MΩ	MCA	300u+	0.0	15	4.0	11	240n	3.4mΩ	1.5	5	C	F541	MO001AE
43	SCL4014BE	8	1	PSS	4.0MΩ	MCA	300u+	0.0	15	4.0	11	240n	3.0mΩ	1.5	4	8	F541	ML127u
44	SCL4014BH	8	1	PSS	4.0MΩ	MCA	300u+	0.0	15	4.0	11	240n	3.4mΩ	1.5	5	C	F541	CH2
45	MC14014BAL	8	1#	PSS	4.0MΩ	MCX	300u+∅	0.0	15	4.0	11	230n	3.4m	1.5	5	C	F274	ML5
46	MC14014BCL	8	1#	PSS	4.0MΩ	MCX	1.2m+∅	0.0	15	4.0	11	230n	3.0m	1.5	4	8	F274	ML5
47	MC14014BCP	8	1#	PSS	4.0MΩ	MCX	1.2m+∅	0.0	15	4.0	11	230n	3.0m	1.5	4	8	F274	ML145
48	MC14021BAL	8	1#	PSS	4.0MΩ	MCX	300u+∅	0.0	15	4.0	11	230n	3.4m	1.5	5	C	F274	ML5
49	MC14021BCL	8	1#	PSS	4.0MΩ	MCX	1.2m+∅	0.0	15	4.0	11	230n	3.0m	1.5	4	8	F274	ML5
50	MC14021BCP	8	1#	PSS	4.0MΩ	MCX	1.2m+∅	0.0	15	4.0	11	230n	3.0m	1.5	4	8	F274	ML145
51	SCL4014AC	8	1	PSS	5.0M1∅	MCX	300m∅	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	PN16dj	ML4g
52	SCL4014AD	8	1	PSS	5.0M1∅	MCX	300m∅	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	PN16dj	ML62a
53	SCL4014AE	8	1	PSS	5.0M1∅	MCX	300m∅	0.0	10	0.05%	9.95	225n	140u%	9.5	4	8	PN16dj	ML89
54	SCL4014AF	8	1	PSS	5.0M1∅	MCX	300m∅	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	PN16dj	FL23
55	SCL4014AH	8	1	PSS	5.0M1∅	MCX	300m∅	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	PN16dj	CH2
56	SCL4021AC	8	1	PSS	5.0M1∅	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	PN16dj	ML4g
57	SCL4021AD	8	1	PSS	5.0M1∅	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	PN16dj	ML62a
58	SCL4021AE	8	1	PSS	5.0M1∅	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	4	8	PN16dj	ML89
59	SCL4021AF	8	1	PSS	5.0M1∅	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	PN16dj	FL23
60	SCL4021AH	8	1	PSS	5.0M1∅	MCX	6.0m+	0.0	10	0.05%	9.95	225n	140u%	9.5	5	C	PN16dj	CH2
61	SCL4021BC	8	1	PSS	6.0M∅	MCA	300u+	0.0	15	4.0	11	160n	3.4mΩ	1.5	5	C	F542	ML127t
62	SCL4021BD	8	1	PSS	6.0M∅	MCA	300u+	0.0	15	4.0	11	160n	3.4mΩ	1.5	5	C	F542	MO001AE
63	SCL4021BE	8	1	PSS	6.0M∅	MCA	300u+	0.0	15	4.0	11	160n	3.0mΩ	1.5	4	8	F542	ML127u
64	SCL4021BF	8	1	PSS	6.0M∅	MCA	300u+	0.0	15	4.0	11	160n	3.4mΩ	1.5	5	C	F542	MO004AH
65	SCL4021BH	8	1	PSS	6.0M∅	MCA	300u+	0.0	15	4.0	11	160n	3.4mΩ	1.5	5	C	F542	CH2
66	4014BDC	8	1#	PSS	6.0M∅	MCX	9.0m+	0.0	15	4.0	11	96n	4.5m	1.5	4	8	F408	ML157e
67	4014BDM	8	1#	PSS	6.0M∅	MCX	9.0m+	0.0	15	4.0	11	96n	4.5m	1.5	5	C	F408	ML157e
68	4014BFC	8	1#	PSS	6.0M∅	MCX	9.0m+	0.0	15	4.0	11	96n	4.5m	1.5	4	8	F408	FL14j
69	4014BFM	8	1#	PSS	6.0M∅	MCX	9.0m+	0.0	15	4.0	11	96n	4.5m	1.5	5	C	F408	FL14j
70	4014BPC	8	1#	PSS	6.0M∅	MCX	9.0m+	0.0	15	4.0	11	96n	4.5m	1.5	4	8	F408	ML170
71	JANM38510/00904BEA	8	1	PSS	14M	BTX	372mW	0.0	5.0	.80	2.0	60n	16m	.40	5	C	PN16dj	ML142
72	JANM38510/00904BEB	8	1	PSS	14M	BTX	372mW	0.0	5.0	.80	2.0	60n	16m	.40	5	C	PN16dj	ML142
73	JANM38510/00904BFA	8	1	PSS	14M	BTX	372mW	0.0	5.0	.80	2.0	60n	16m	.40	5	C	PN16dj	FL31
74	JANM38510/00904BFB	8	1	PSS	14M	BTX	372mW	0.0	5.0	.80	2.0	60n	16m	.40	5	C	PN16dj	FL31
75	JANM38510/00904CEA	8	1	PSS	14M	BTX	372mW	0.0	5.0	.80	2.0	60n	16m	.40	5	C	PN16dj	ML142
76	JANM38510/00904CEB	8	1	PSS	14M	BTX	372mW	0.0	5.0	.80	2.0	60n	16m	.40	5	C	PN16dj	ML142
77	JANM38510/00904CFA	8	1	PSS	14M	BTX	372mW	0.										

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		3 | OPER. CODE	4 | MAX WORST CASE FREQ. (Hz)	5 | STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT		MIN OPER. TEMP. RANGE CODE	DRAWINGS		
		1 | BITS PER REGISTER	2 | No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	@ OUT (V)		LOGIC/BLOCK	OUTLINE	
																		Hz
1#	HEF4021BP	8	1	PSS	18M*	MCX	400mW	0.0	15	4.0	1.1	125n	3.0m	1.5	4	8	F493	ML89j
2#	HEF4021P	8	1	PSS	18M	MCX	400mW	0.0	10	3.0	7.0	172n	1.2m	.50	4	8	F435	ML48e
3	MC54165F	8	1	PSS	20M	BTX	315m	0.0	5.0	40%	2.4	40n	16m	.40	5	C	F261	FL34
4	MC54165L	8	1	PSS	20M	BTX	315m	0.0	5.0	40%	2.4	40n	16m	.40	5	C	F261	ML127b
5	MC74165L	8	1	PSS	20M	BTX	315m	0.0	5.0	40%	2.4	40n	16m	.40	0	7	F261	ML127b
6	SN54165J	8	1	PSS	20M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	5	C	F107	ML61a
7	SN54165W	8	1	PSS	20M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	5	C	F107	MO004AC
8	SN74165J	8	1	PSS	20M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	0	7	F107	ML61a
9	SN74165N	8	1	PSS	20M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	0	7	F107	ML48
10#	ZN54165E	8	1	PSS	20M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	5	C	PN16dj	ML5f
11#	ZN54165J	8	1	PSS	20M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	5	C	PN16dj	ML85b
12#	ZN74165E	8	1	PSS	20M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	0	7	PN16dj	ML5f
13#	ZN74165J	8	1	PSS	20M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	0	7	PN16dj	ML85b
14	4021BDC	8	1	PSS	21M	MCX	9.0m	0.0	15	4.0	11	72n	4.5m	1.5	4	8	F409	ML157e
15	4021BDM	8	1	PSS	21M	MCX	9.0m	0.0	15	4.0	11	72n	4.5m	1.5	5	C	F409	ML157e
16	4021BFC	8	1	PSS	21M	MCX	9.0m	0.0	15	4.0	11	72n	4.5m	1.5	4	8	F409	FL14j
17	4021BFM	8	1	PSS	21M	MCX	9.0m	0.0	15	4.0	11	72n	4.5m	1.5	5	C	F409	FL14j
18	4021BPC	8	1	PSS	21M	MCX	9.0m	0.0	15	4.0	11	72n	4.5m	1.5	4	8	F409	ML170
19	SN54LS166J	8	1	PSS	25M	BTX	190m	0.0	5.0	70	2.0	35n	4.0m	.40	5	C	F88	ML61a
20	SN54LS166W	8	1	PSS	25M	BTX	190m	0.0	5.0	70	2.0	35n	4.0m	.40	5	C	F88	MO004AA
21	SN74LS166J	8	1	PSS	25M	BTX	190m	0.0	5.0	80	2.0	35n	8.0m	.50	0	7	F88	ML61a
22	SN74LS166N	8	1	PSS	25M	BTX	190m	0.0	5.0	80	2.0	35n	8.0m	.50	0	7	F88	ML48
23#	FLJ451-74165	8	1	PSS	25M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	0	7	F107	MLZ
24#	FLJ455-84165	8	1	PSS	25M	BTX	315m	0.0	5.0	80	2.0	40n	16m	.40	2	8	F107	MLZ
25#	M53366P	8	1	PSS	25M	BTX	360m	0.0	5.0	80	2.0	30n	16m	.40	0	7	F88	ML5a
26	N74166F	8	1	PSS	25M	BTX	360m	0.0	5.0	80	2.0	35n	16m	.40	0	7	F88	ML127m
27	N74166N	8	1	PSS	25M	BTX	580m	0.0	5.0	80	2.0	26n	16m	.40	0	7	F88	MO001AE
28	SN54166J	8	1	PSS	25M	BTX	360m	0.0	5.0	80	2.0	30n	16m	.40	5	C	F88	ML61
29	SN54166W	8	1	PSS	25M	BTX	360m	0.0	5.0	80	2.0	30n	16m	.40	5	C	F88	MO004AC
30	SN74166J	8	1	PSS	25M	BTX	360m	0.0	5.0	80	2.0	30n	16m	.40	0	7	F88	ML61
31	SN74166N	8	1	PSS	25M	BTX	360m	0.0	5.0	80	2.0	30n	16m	.40	0	7	F88	ML48
32#	ZN54166J	8	1	PSS	25M	BTX	360m	0.0	5.0	80	2.0	30n	16m	.40	5	C	PN16fh	ML85b
33#	ZN74166E	8	1	PSS	25M	BTX	360m	0.0	5.0	80	2.0	30n	16m	.40	0	7	PN16fh	ML5f
34#	uPD4014C	8	1	SPS	25M	MCX	200m	0.0	10	3.0	7.0	300n	100u		4	8	PN16fo	MO001AC
35#	uPD4021C	8	1	SPS	25M	MCX	200m	0.0	10	3.0	7.0	300n	100u		4	8	PN16fo	MO001AC
36	54LS165DM	8	1	PSS	30M	BTX	180m	0.0	5.0	70	2.0	30n	4.0m	.40	5	C	F107	ML157e
37	54LS165FM	8	1	PSS	30M	BTX	180m	0.0	5.0	70	2.0	30n	4.0m	.40	5	C	F107	FL14j
38	74LS165DC	8	1	PSS	30M	BTX	180m	0.0	5.0	80	2.0	30n	8.0m	.50	0	7	F107	ML157e
39	74LS165FC	8	1	PSS	30M	BTX	180m	0.0	5.0	80	2.0	30n	8.0m	.50	0	7	F107	FL14j
40	74LS165PC	8	1	PSS	30M	BTX	180m	0.0	5.0	80	2.0	30n	8.0m	.50	0	7	F107	ML170
41	SN54LS165J	8	1	PSS	30M	BTX	180m	0.0	5.0	70	2.0	40n	4.0m	.40	5	C	F107	ML331
42	SN54LS165W	8	1	PSS	30M	BTX	180m	0.0	5.0	70	2.0	40n	4.0m	.40	5	C	F107	FL63
43	SN74LS165J	8	1	PSS	30M	BTX	180m	0.0	5.0	80	2.0	40n	8.0m	.50	0	7	F107	ML331
44	SN74LS165N	8	1	PSS	30M	BTX	180m	0.0	5.0	80	2.0	40n	8.0m	.50	0	7	F107	ML331
45	SN74LS165W	8	1	PSS	30M	BTX	180m	0.0	5.0	80	2.0	30n	8.0m	.50	0	7	F107	FL63
46	AM25LS22DC	8	1	SPS	BTX	BTX	0.0	0.0	5.0	80	2.0	0.0	4.0m	.40	0	7	F428	ML248
47	AM25LS22DM	8	1	SPS	BTX	BTX	0.0	0.0	5.0	70	2.0	0.0	4.0m	.40	5	C	F428	ML248
48	AM25LS22FM	8	1	SPS	BTX	BTX	0.0	0.0	5.0	70	2.0	0.0	4.0m	.40	5	C	F428	FL44
49	AM25LS22PC	8	1	SPS	BTX	BTX	0.0	0.0	5.0	80	2.0	0.0	4.0m	.40	0	7	F428	ML161a
50	SCL4094BC	8	1	SPS	2.5M	MCA	300u	0.0	10	0.05%	9.95	250n	900u	.50	5	C	F425	ML127t
51	SCL4094BE	8	1	SPS	2.5M	MCA	300u	0.0	10	0.05%	9.95	250n	1.1m	.50	4	8	F425	ML127u
52	SCL4094BH	8	1	SPS	2.5M	MCA	300u	0.0	10	0.05%	9.95	250n	900u	.50	5	C	F425	CHZ
53	MC14094BAL	8	1	SPS	3.0M	CMS	300u	0.0	15	4.0	11	270n	3.4m	1.5	5	C	F524	ML157a
54	MC14094BCL	8	1	SPS	3.0M	CMS	1.2m	0.0	15	4.0	11	270n	3.0m	1.5	4	8	F524	ML145
55	MC14094BCP	8	1	SPS	3.0M	CMS	1.2m	0.0	15	4.0	11	270n	3.0m	1.5	4	8	F524	ML145
56	CD4094BK	8	1	SPS	6.0M	MCX	500m	0.0	10	0.05%	9.95	250n	650u	.50	5	C	F330	MO004AC
57	CD4094BD	8	1	SPS	6.0M	MCX	500m	0.0	15	4.0	11	190n	34m	1.5	5	C	F330	MO001AE
58	CD4094BE	8	1	SPS	6.0M	MCX	500m	0.0	15	4.0	11	190n	34m	1.5	4	8	F330	MO001AC
59	CD4094BF	8	1	SPS	6.0M	MCX	500m	0.0	15	4.0	11	190n	34m	1.5	5	C	F330	MO001AC
60	CD4094BH	8	1	SPS	6.0M	MCX	500m	0.0	15	4.0	11	190n	34m	1.5	5	C	F330	CH7
61#	HCC4094BD	8	1	SPS	6.0M	MCX	200m	0.0	15	4.0	11	190n	3.4m	1.5	5	C	F330	ML1e
62#	HCC4094BF	8	1	SPS	6.0M	MCX	200m	0.0	15	4.0	11	190n	3.4m	1.5	5	C	F330	ML127c
63#	HCC4094BK	8	1	SPS	6.0M	MCX	200m	0.0	15	4.0	11	190n	3.4m	1.5	5	C	F330	FL31
64#	HCF4094BE	8	1	SPS	6.0M	MCX	200m	0.0	15	4.0	11	190n	3.4m	1.5	4	8	F330	ML236
65#	HCF4094BF	8	1	SPS	6.0M	MCX	200m	0.0	15	4.0	11	190n	3.4m	1.5	4	8	F330	ML127c
66#	GZF1100D	8	1	SPS	7.0M	MCX	0.0	0.0	5.0	1.5	3.5	180n	1.6m	.40	4	8	F326	ML125a
67	RT808	8	1	SPS	10M	BTX	860m	0.0	5.0	30	3.3	80n	3.0m	1.5	0	7	F269	
68#	HEF4094BD	8	1	SPS	10M	MCX	400m	0.0	15	4.0	11	80n	3.0m	1.5	4	8	F330	ML127x
69#	HEF4094BP	8	1	SPS	10M	MCX	400m	0.0	15	4.0	11	80n	3.0m	1.5	4	8	F330	ML89j
70	SN54L164J	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	4.0m	.40	5	C	F179	ML66b
71	SN54L164N	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	4.0m	.40	5	C	F179	ML71
72	SN54L164T	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	4.0m	.40	5	C	F179	TO84
73	SN74L164J	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	4.0m	.40	0	7	F179	ML66b
74	SN74L164N	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	4.0m	.40	0	7	F179	ML71
75	SN74L164T	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	4.0m	.40	0	7	F179	TO84
76#	ZN54L164E	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	8.0m	.40	5	C	PN14ab	ML71e
77#	ZN54L164J	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	8.0m	.40	5	C	PN14ab	ML64f
78#	ZN74L164E	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0	84n	8.0m	.40	0	7	PN14ab	ML71e
79#	ZN74L164J	8	1	SPS	12M	BTX	88m	0.0	5.0	80	2.0</							

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE		DRAWINGS	
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)		-	+	LOGIC/BLOCK	OUTLINE
1	JANM38510/30605CDB	8	1	SPS	20M*	BTD	149m	0.0	5.5	.70	2.0	62n	4.0m	.40	5	C	F179	FL22	
2	54LS164DM	8	1	SPS	25M*	BTD	135m	0.0	5.0	.70	2.0	27n	4.0m	.40	5	C	F403	TO116	
3	54LS164FM	8	1	SPS	25M*	BTD	135m	0.0	5.0	.70	2.0	27n	4.0m	.40	5	C	F403	TO86	
4	54LS164J	8	1	SPS	25M*	BTD	135m	0.0	5.0	.70	2.0	36n	4.0m	.40	5	C	F179	ML63c	
5	54LS164W	8	1	SPS	25M*	BTD	135m	0.0	5.0	.70	2.0	36n	4.0m	.40	5	C	F179	FL11c	
6	74LS164DC	8	1	SPS	25M*	BTD	135m	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F403	TO116	
7	74LS164FC	8	1	SPS	25M*	BTD	135m	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F403	TO86	
8	74LS164PC	8	1	SPS	25M*	BTD	135m	0.0	5.0	.80	2.0	27n	4.0m	.40	0	7	F403	ML233	
9	54164DM	8	1	SPS	25M*	BTD	270m	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	F403	TO116	
10	54164FM	8	1	SPS	25M*	BTD	270m	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	F403	TO86	
11	74164DC	8	1	SPS	25M*	BTD	270m	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F403	TO116	
12	74164FC	8	1	SPS	25M*	BTD	270m	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F403	TO86	
13	74164PC	8	1	SPS	25M*	BTD	270m	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F403	ML233	
14	N74LS164F	8	1	SPS	25M*	BTD	135m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F403	ML19f	
15	N74LS164N	8	1	SPS	25M*	BTD	135m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F403	ML86	
16	S54LS164F	8	1	SPS	25M*	BTD	135m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F403	ML19f	
17	S54LS164W	8	1	SPS	25M*	BTD	135m	0.0	5.0	.80	2.0	27n	16m	.40	5	C	F403	FL51	
18	SN54LS164J	8	1	SPS	25M*	BTD	80m†	0.0	5.0	.70	2.0	36n	4.0m	.40	5	C	F179	ML330	
19	SN54LS164W	8	1	SPS	25M*	BTD	80m†	0.0	5.0	.70	2.0	36n	4.0m	.40	5	C	F179	FL62	
20	SN74LS164J	8	1	SPS	25M*	BTD	80m†	0.0	5.0	.80	2.0	36n	4.0m	.40	0	7	F179	ML330	
21	SN74LS164N	8	1	SPS	25M*	BTD	80m†	0.0	5.0	.80	2.0	36n	4.0m	.40	0	7	F179	ML330	
22	SN74LS164W	8	1	SPS	25M*	BTD	80m†	0.0	5.0	.80	2.0	36n†	4.0m	.40	0	7	F179	FL62	
23#	FLJ441-74164	8	1	SPS	25M	BTX	285m	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F179	ML7	
24#	FLJ445-84164	8	1	SPS	25M	BTX	285m	0.0	5.0	.80	2.0	42n	8.0m	.40	2	8	F179	ML7	
25	N74164A	8	1	SPS	25M*	BTX	270m†	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F179	ML86	
26	N74164F	8	1	SPS	25M*	BTX	270m†	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F403	ML93b	
27	N74164N	8	1	SPS	25M*	BTX	270m	0.0	5.0	.80	2.0	27n	16m	.40	0	7	F403	ML86	
28#	RC54164A	8	1	SPS	25M*	BTX	270m†	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	F179	ML86	
29#	RC54164F	8	1	SPS	25M*	BTX	270m†	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	F403	ML66b	
30	S54164A	8	1	SPS	25M*	BTX	270m†	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	F179	ML86	
31	S54164F	8	1	SPS	25M*	BTX	270m†	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	F403	ML66b	
32	SN54164J	8	1	SPS	25M*	BTX	168m†	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	F179	ML66b	
33	SN54164W	8	1	SPS	25M*	BTX	168m†	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	F179	MO004AA	
34	SN74164J	8	1	SPS	25M*	BTX	168m†	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F179	ML66b	
35	SN74164N	8	1	SPS	25M*	BTX	168m†	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F179	ML71	
36#	ZN54164E	8	1	SPS	25M*	BTX	168m†	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	PN14ab	ML71e	
37#	ZN54164J	8	1	SPS	25M*	BTX	168m†	0.0	5.0	.80	2.0	42n	8.0m	.40	5	C	PN14ab	ML64f	
38#	ZN74164E	8	1	SPS	25M*	BTX	168m†	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	PN14ab	ML71e	
39#	ZN74164J	8	1	SPS	25M*	BTX	168m†	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	PN14ab	ML64f	
40	SN54LS299W	8	1	SPS	30M*	BTD	150m	0.0	5.0	.70	2.0s	4.0m	.40	5	C	F427	FL65		
41#	uPB2164D	8	1	SPS	36M	BTX	150m	0.0	5.0	.80	2.0	4.0m	.40	2	7	PN14f	ML93f		
42#	uPB74164C	8	1	SPS	36MΔ	BTX	21m%	0.0	5.0	.80	2.0	42n	8.0m	.40	0	7	F422	ML235	
43	AM25LS164DC	8	1	SPS	45M†	BTD	45M†	0.0	5.0	.80	2.0	4.0m	.40	0	7	F179	ML63b		
44	AM25LS164DM	8	1	SPS	45M†	BTD	45M†	0.0	5.0	.70	2.0	4.0m	.40	5	C	F179	ML63b		
45	AM25LS164FM	8	1	SPS	45M†	BTD	45M†	0.0	5.0	.70	2.0	4.0m	.40	5	C	F179	FL11b		
46	AM25LS164PC	8	1	SPS	45M†	BTD	45M†	0.0	5.0	.80	2.0	4.0m	.40	0	7	F179	ML89d		
47	AM25LS23DC	8	1	SPS	50M†	BTD	50M†	0.0	5.0	.80	2.0s	4.0m	.40	0	7	F429	ML248		
48	AM25LS23DM	8	1	SPS	50M†	BTD	50M†	0.0	5.0	.70	2.0s	4.0m	.40	5	C	F429	ML248		
49	AM25LS23FM	8	1	SPS	50M†	BTD	50M†	0.0	5.0	.70	2.0s	4.0m	.40	5	C	F429	FL44		
50	AM25LS23PC	8	1	SPS	50M†	BTD	50M†	0.0	5.0	.80	2.0s	4.0m	.40	0	7	F429	ML161a		
51	AM25LS299DC	8	1	SPS	50M†	BTD	50M†	0.0	5.0	.80	2.0s	4.0m	.40	0	7	F427	ML248		
52	AM25LS299DM	8	1	SPS	50M†	BTD	50M†	0.0	5.0	.70	2.0s	4.0m	.40	5	C	F427	ML248		
53	AM25LS299FM	8	1	SPS	50M†	BTD	50M†	0.0	5.0	.70	2.0s	4.0m	.40	5	C	F427	FL44		
54	AM25LS299PC	8	1	SPS	50M†	BTD	50M†	0.0	5.0	.80	2.0s	4.0m	.40	0	7	F427	ML161a		
55#	7491PC	8	1	SS	18M	BTX	175m	0.0	5.0	.80	2.0	40n	.40	10M	0	7	F560	ML180	
56#	uPD11A	8s	1	SSS	100k	MPX	250m	0.0	24	0.0	-24	0.0	3.0u	2	7	F413	TO101		
57	CM4021AE	8s	1	SSS	600k	MCX	200m	0.0	5.0	0.1%	4.99	1.0u	.30	4	8	PN16dj	ML4g		
58	CM4021AD	8s	1	SSS	1.0M	MCX	200m	0.0	5.0	0.1%	4.99	750n	.30	5	C	PN16dj	ML4g		
59	SN54L91J	8	1	SSS	6.5M†	BTX	17m†	0.0	5.0	.70	2.0	150n	2.0m	.30	5	C	F91	ML66b	
60	SN54L91N	8	1	SSS	6.5M†	BTX	17m†	0.0	5.0	.70	2.0	150n	2.0m	.30	5	C	F91	ML71	
61	SN54L91T	8	1	SSS	6.5M†	BTX	17m†	0.0	5.0	.70	2.0	150n	2.0m	.30	5	C	F91	TO84	
62	SN74L91J	8	1	SSS	6.5M†	BTX	17m†	0.0	5.0	.70	2.0	150n	3.6m	.40	0	7	F91	ML66b	
63	SN74L91N	8	1	SSS	6.5M†	BTX	17m†	0.0	5.0	.70	2.0	150n	3.6m	.40	0	7	F91	ML71	
64#	ZN54L91E	8	1	SSS	6.5M†	BTX	33m†	0.0	5.0	.80	2.0	150n	3.6m	.40	5	C	PN14w	ML71e	
65#	ZN54L91J	8	1	SSS	6.5M†	BTX	33m†	0.0	5.0	.80	2.0	150n	3.6m	.40	5	C	PN14w	ML64f	
66#	ZN74L91E	8	1	SSS	6.5M†	BTX	33m†	0.0	5.0	.80	2.0	150n	3.6m	.40	0	7	PN14w	ML71e	
67#	ZN74L91J	8	1	SSS	6.5M†	BTX	33m†	0.0	5.0	.80	2.0	150n	3.6m	.40	0	7	PN14w	ML64f	
68	54LS91J	8	1	SSS	10M*	BTD	100m	0.0	5.0	.70	2.0	40n	4.0m	.40	5	C	F91	ML63c	
69	54LS91W	8	1	SSS	10M*	BTD	100m	0.0	5.0	.70	2.0	40n	4.0m	.40	5	C	F91	FL11c	
70	74LS91J	8	1	SSS	10M*	BTD	100m	0.0	5.0	.80									

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS / REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		3 OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN OPER. TEMP. RANGE CODE	DRAWINGS		
		1 BITS PER REGISTER	2 No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(Hz)		LOGIC/BLOCK	OUTLINE	
1#	UPD117C	8	2	SSS	100k	MPX	24	0.0	9.3*	-3.7#	2.5u	80u	-13	2	7	F416	MO001AA	
2	MC8328L	8	2	SSS	1.0M†	BTX	250m†	0.0	5.0	.45%	2.4	70n	3.0m	.45	0	7	F38	ML5
3	MC8328P	8	2	SSS	1.0M†	BTX	250m†	0.0	5.0	.45%	2.4	70n	3.0m	.45	0	7	F38	ML40a
4	MC9328L	8	2	SSS	1.0M†	BTX	250m†	0.0	5.0	.40%	2.4	70n	3.0m	.40	5	7	F38	ML5
5	93L28DC	8	2	SSS	5.0M*∅	BTX	127m	0.0	5.0	.80	2.0	110n	8.0m	.30	0	7	F1	ML127k
6	93L28DM	8	2	SSS	5.0M*∅	BTX	127m	0.0	5.0	.70	2.0	110n	4.8m	.30	0	7	F1	ML127k
7	93L28FC	8	2	SSS	5.0M*∅	BTX	127m	0.0	5.0	.80	2.0	110n	8.0m	.30	0	7	F1	FL14g
8	93L28FM	8	2	SSS	5.0M*∅	BTX	127m	0.0	5.0	.70	2.0	110n	4.8m	.30	0	7	F1	MFL14g
9	93L28PC	8	2	SSS	5.0M*∅	BTX	127m	0.0	5.0	.80	2.0	110n	8.0m	.30	0	7	F1	ML170
10#	FLJ481-4932	8	2	SSS	10M	BTX	610m	0.0	5.0	.80	2.0	40n	16m	.40	0	7		MLZ
11#	FLJ485-49832	8	2	SSS	10M	BTX	610m	0.0	5.0	.80	2.0	40n	16m	.40	0	7		MLZ
12	JANM38510/15902BEA	8	2	SSS	13M	BTX	424m	0.0	5.0	.80	2.0	72n	16m	.40	5	7	F38	ML143
13	JANM38510/15902BEB	8	2	SSS	13M	BTX	424m	0.0	5.0	.80	2.0	72n	16m	.40	5	7	F38	ML143
14	JANM38510/15902BFA	8	2	SSS	13M	BTX	424m	0.0	5.0	.80	2.0	72n	16m	.40	5	7	F38	FL31
15	JANM38510/15902BFB	8	2	SSS	13M	BTX	424m	0.0	5.0	.80	2.0	72n	16m	.40	5	7	F38	FL31
16	JANM38510/15902CEA	8	2	SSS	13M	BTX	424m	0.0	5.0	.80	2.0	72n	16m	.40	5	7	F38	ML143
17	JANM38510/15902CEB	8	2	SSS	13M	BTX	424m	0.0	5.0	.80	2.0	72n	16m	.40	5	7	F38	ML143
18	JANM38510/15902CEA	8	2	SSS	13M	BTX	424m	0.0	5.0	.80	2.0	72n	16m	.40	5	7	F38	FL31
19	JANM38510/15902CFB	8	2	SSS	13M	BTX	424m	0.0	5.0	.80	2.0	72n	16m	.40	5	7	F38	FL31
20	N8277B	8	2	SSS	15M∅	BTX	540m	0.0	5.0	.40%	2.6	40n∅	16m	.40	0	7	F122	ML93b
21	N8277F	8	2	SSS	15M∅	BTX	540m	0.0	5.0	.40%	2.6	40n∅	16m	.40	0	7	F122	ML60a
22	N8277N	8	2	SSS	15M∅	BTX	515m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F122	MO001AA
23	TMSR16	8	2	SSS	15MΔ	BTX∅	350m	0.0	5.0	.22†	3.3†	40n			0	7	F343a	
24	AM93L28DC	8	2	SSS	16M†∅	BTX	126m†	0.0	5.0	.70	2.0	110n∅	4.9m	.30	0	7	F1	ML127d
25	AM93L28DM	8	2	SSS	16M†∅	BTX	126m†	0.0	5.0	.70	2.0	110n∅	4.9m	.30	5	7	F1	ML62c
26	AM93L28FM	8	2	SSS	16M†∅	BTX	126m†	0.0	5.0	.70	2.0	110n∅	4.9m	.30	0	7	F1	FL33b
27	AM93L28PC	8	2	SSS	16M†∅	BTX	126m†	0.0	5.0	.70	2.0	110n∅	4.9m	.30	5	7	F1	ML89a
28	9328DC	8	2	SSS	20M∅	BTX	385m	0.0	5.0	.80	2.0	50n	16m	.40	0	7	F1	ML127k
29	9328DM	8	2	SSS	20M∅	BTX	385m	0.0	5.0	.80	2.0	50n	16m	.40	5	7	F1	ML127k
30	9328FC	8	2	SSS	20M∅	BTX	385m	0.0	5.0	.80	2.0	50n	16m	.40	0	7	F1	FL14g
31	9328FM	8	2	SSS	20M∅	BTX	385m	0.0	5.0	.80	2.0	50n	16m	.40	5	7	F1	FL14g
32	9328PC	8	2	SSS	20M∅	BTX	385m	0.0	5.0	.80	2.0	50n	16m	.40	0	7	F1	ML170
33	AM9328DC	8	2	SSS	30M†∅	BTX	440m†	0.0	5.0	.80	2.0	39n∅	16m	.40	0	7	F1	ML127k
34	AM9328DM	8	2	SSS	30M†∅	BTX	385m†	0.0	5.0	.80	2.0	39n∅	16m	.40	5	7	F1	ML62c
35	AM9328FM	8	2	SSS	30M†∅	BTX	440m†	0.0	5.0	.80	2.0	39n∅	16m	.40	0	7	F1	FL33b
36	AM9328PC	8	2	SSS	30M†∅	BTX	385m†	0.0	5.0	.80	2.0	39n∅	16m	.40	0	7	F1	ML89a
37	TMSR24	8	3	SSS	15MΔ	BTX∅	525m	0.0	5.0	.22†	3.3†	40n			0	7	F344	
38	TMSR32	8	4	SSS	15MΔ	BTX∅	700m	0.0	5.0	.22†	3.3†	40n			0	7	F344a	
39	T104	8	6	SSS	20M	BTX∅	1.1	4.7	5.3	.80	1.8	18n†	9.6m	.45	1.2	5	C	PLZ
40	SCL4094BD	8	18*	SPS	6M	MCX	125m*	0.0	15			600n	1.0uΔ		1.2	5	C	F559
41	SCL4094BF	8	18*	SPS	6M	MCX	125m*	0.0	15			600n	1.0uΔ		1.2	5	C	F559
42	N8202F	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24fz	ML133
43	N8202N	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24fz	ML135
44	N8202Q	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24fz	FL3b
45	N8203F	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24ga	ML133
46	N8203N	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24ga	ML135
47	N8203Q	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	0	7	PN24ga	FL3b
48#	RC8202F	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	F302b	ML133
49#	RC8202N	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	F302b	ML135
50#	RC8202Q	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	F302c	ML133
51#	RC8203F	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	F302c	ML135
52#	RC8203N	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	F302c	ML133
53#	RC8203Q	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	F302c	ML133
54	S8202F	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	PN24fz	ML135
55	S8202N	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	PN24fz	ML135
56	S8202Q	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	PN24fz	FL3b
57	S8203F	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	PN24ga	ML133
58	S8203N	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	PN24ga	ML135
59	S8203Q	10	1	PPS	15M*	BTX	580m	0.0	5.0	.40%	2.6	45n	9.6m	.40	5	7	PN24ga	FL3b
60	N8274B	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	0	7	F168	ML89a
61	N8274F	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	0	7	F168	ML60a
62	N8274N	10	1	PSS	25M∅	BTX	540m	0.0	5.0	.80	2.0	40n	16m	.40	0	7	F168	MO001AA
63	N8274W	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	0	7	F168	FL25
64#	RC8273B	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	5	7	F167	ML89a
65#	RC8273F	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	5	7	F167	ML60a
66#	RC8273W	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	5	7	F167	FL255
67#	S8274B	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	5	7	F168	ML89a
68	S8274F	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	5	7	F168	ML60a
69	S8274W	10	1	PSS	25M∅	BTX	567m∅	0.0	5.0	.40%	2.6	40n∅	16m	.40	5	7	F168	FL25
70	3801-4-6H	10	1	SPS*	500k	MPX	190m	27	0.0	-2.0	-9.0				5	8	F77	ML70
71	3801-9-6H	10	1	SPS*	500k	MPX	190m	27	0.0	-2.0	-9.0				0	7	F77	ML70
72	N8273B	10	1	SPS	25M∅	BTX	540m∅	0.0	5.0	.40%	2.6	40n∅	9.6m	.40	0	7	F167	ML89a
73	N8273F	10	1	SPS	25M∅	BTX	540m∅	0.0	5.0	.40%	2.6	40n∅	9.6m	.40	0	7	F167	ML60a
74	N8273N	10	1	SPS	25M∅	BTX	515m	0.0	5.0	.80	2.0	40n	9.6m	.40	0	7	F167	MO001AA
75	N8273W	10	1	SPS	25M∅	BTX	540m∅	0.0	5.0	.40%	2.6	40n∅	9.6m	.40	0	7	F167	FL25
76#	RC8274B	10	1	SPS	25M∅	BTX	540m∅	0.0	5.0	.40%	2.6	40n∅	9.6m	.40	5	7	F168	ML89a
77#	RC8274F	10	1	SPS	25M∅	BTX	540m∅	0.0	5.0	.40%	2.6	40n∅	9.6m	.40	5	7	F168	ML60a
78#	RC8274W	10	1	SPS	25M∅	BTX	540m∅	0.0	5.0	.40%	2.6	40n∅	9.6m	.40	5	7	F168	FL25

7. SHIFT REGISTERS

IN ORDER OF(1)No.BITS/REG(2)No.REGISTERS
(3)OP.CODE(4)MAX W/C FREQ(5)STRUCT(6)TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX. W/C CASE FREQ. (Hz)	STRUCTURE CODE	MAX. OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		PROP. DELAY (s)	MIN. OUTPUT SINK CURRENT		MIN. CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS	
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	@ OUT (V)			LOGIC/BLOCK	OUTLINE
1	S2001K	16	2	SSS	1.0M	MPG	160m	28	0.0	-2.0	-1.0	475n	1.6m	.40	5 8	F48	CY7	
2	SS5-8211-31	16	2	SSS	2.0M	MPN	160m	12	5.0	.80	3.5	250n	1.6m	.40	0 7	F442	ML5c	
3	SS5-8212-12	16	2	SSS	2.0M	MPN	160m	12	5.0	.80	3.5	225n	1.6m	.40	0 7	F25d	ML250	
4	SS5-8212-16	16	2	SSS	2.0M	MPN	160m	12	5.0	.80	3.5	225n	1.6m	.40	0 7	F25	TO78	
5	SS6-8211-55	16	2	SSS	2.0M	MPN	200m	12	5.0	.80	3.5	300n	1.6m	.40	5 C	F442	ML1h	
6	SS6-8212-16	16	2	SSS	2.0M	MPN	200m	12	5.0	.80	3.5	300n	1.6m	.40	5 C	F25	TO78	
7	SS6-8212-69	16	2	SSS	2.0M	MPN	200m	12	5.0	.80	3.5	300n	1.6m	.40	5 C	F25c	ML125b	
8	SS7-2016-31	16	2	SSS	2.0M	MPN	160m	12	5.0	.80	3.5	250n	1.6m	.40	0 7	F442a	ML5c	
9	SS7-8212-30	16	2	SSS	2.0M	MPN	160m	12	5.0	.80	3.5	225n	1.6m	.40	0 7	F25c	ML64	
10	CD40105BH	16	4	SSS	4.0M	MCX	500m	0.0	15	4.0	1.1	130n	3.4m	1.5	5 C	F373	CH14	
11	SL7-4016-30	16	4	SSS	2.0M	MPN	450m	12	5.0	.80	3.5	250n	1.6m	.40	0 7	F441	ML64	
12	SL5-4016	16	4	SSS	2.0M	MPX	450m	12	5.0	.80	3.5	250n	1.6m	.40	0 7	F441	ML64	
13	CD40105BD	16	4	SSS	4.0M	MCX	500m	0.0	15	4.0	1.1	130n	3.4m	1.5	5 C	F373	MO001AB	
14	CD40105BE	16	4	SSS	4.0M	MCX	500m	0.0	15	4.0	1.1	130n	3.4m	1.5	4 8	F373	MO001AC	
15	CD40105BF	16	4	SSS	4.0M	MCX	500m	0.0	15	4.0	1.1	130n	3.4m	1.5	5 C	F373	MO001AC	
16	SS5-1032-31	16	6	SSS	1.0M	MPX	200m	12	5.0	.80	3.5	450n	1.6m	.40	0 7	F440	ML5c	
17	SS6-1032-55	16	6	SSS	1.0M	MPX	200m	12	5.0	.80	3.5	450n	1.6m	.40	5 C	F440	ML1h	
18	RT813	17	2	SPS	1.0M	BTX	1.7	0.0	5.0	.30	3.3				0 7	F271		
19	T113	18	1		1.0M	BTX	420m	4.8	5.2	0.0	5.0	8.0n			0 7		PL	
20	MS618	24	4	SSS	2.5M	MCX	20n	10	0.0	.01	9.99	700n			5 C	F59	ML	
21	RC2002K	25	2	SSS	1.0M	MPG		28	0.0	-2.0	-1.0	450n			5 8	F48	CY7	
22	S2002K	25	2	SSS	1.0M	MPG		28	0.0	-2.0	-1.0	450n			5 8	F48	CY7	
23	SL6-4025-69	25	4	SSS	1.0M	MPN	325m	12	5.0	.80	3.5	450n	1.6m	.40	5 C	F441	ML125b	
24	SL7-4025-30	25	4	SSS	1.0M	MPN	300m	12	5.0	.80	3.5	350n	1.6m	.40	0 7	F441	ML64	
25	SL5-4025	25	4	SSS	1.0M	MPX	300m	12	5.0	.80	3.5	350n	1.6m	.40	0 7	F441	ML64	
26	MD4330BD	30	1	SSS		MCX		0.0	18	.01	9.99	300n	800u	.50	5 C	PN40n		
27	MD4330BE	30	1	SSS		MCX		0.0	18	.01	9.99	300n	800u	.50	4 8	PN40n		
28	MD4331BE	30	1	SSS		MCX		0.0	18	.01	9.99	300n	800u	.50	4 8	PN40n		
29	MD4330BC	30	1	SSS	1.0M	BTX		0.0	18	.01	9.99	300n	800u	.50	4 8	PN40n		
30	RT809	30	1	SSS	1.0M	BTX	1.7	0.0	5.0	.30	3.3				0 7	F270		
31	MD4332BC	32	1	SSS		MCX		0.0	18	.01	9.99	300n	800u	.50	4 8	PN40n		
32	MD4332BD	32	1	SSS		MCX		0.0	18	.01	9.99	300n	800u	.50	5 C	PN40n		
33	MD4332BE	32	1	SSS		MCX		0.0	18	.01	9.99	300n	800u	.50	4 8	PN40n		
34	CD40100BD	32	1	SSS	3.0M	MCX	500m	0.0	15	4.0	1.1	230n	3.4m	1.5	5 C	F465	MO001AB	
35	CD40100BE	32	1	SSS	3.0M	MCX	500m	0.0	15	4.0	1.1	230n	3.4m	1.5	4 8	F465	MO001AC	
36	CD40100BF	32	1	SSS	3.0M	MCX	500m	0.0	15	4.0	1.1	230n	3.4m	1.5	5 C	F465	MO001AC	
37	CD40100BH	32	1	SSS	3.0M	MCX		0.0	15	4.0	1.1	230n	3.4m	1.5	5 C	F465	CH12	
38	RC2003K	32	2	SSS	1.0M	MPG		28	0.0	-2.0	-1.0	450n			5 8	F48	CY7	
39	S2003K	32	2	SSS	1.0M	MPG		28	0.0	-2.0	-1.0	450n			5 8	F48	CY7	
40	SL6-4032-69	32	4	SSS	1.0M	MPN	325m	12	5.0	.80	3.5	450n	1.6m	.40	5 C	F441	ML125b	
41	SL7-4032-30	32	4	SSS	1.0M	MPN	300m	12	5.0	.80	3.5	350n	1.6m	.40	0 7	F441	ML64	
42	SL5-4032	32	4	SSS	1.0M	MPX	300m	12	5.0	.80	3.5	350n	1.6m	.40	0 7	F441	ML64	
43	3348	32	6	SSS	1.0M	MPG	500m	12	5.0	.80	3.5	350n			0 7			
44	3349	32	6	SSS	1.0M	MPG	500m	12	5.0	.80	3.5	520n			0 7	F129		
45	AM2812DC	32	8	SSS	500k*	MPX		12	5.0	.80	4.0	200n	1.6m	.40	0 7	PN28v	ML	
46	AM2812DM	32	8	SSS	500k*	MPX		12	5.0	.80	4.0	200n	1.6m	.40	5 C	PN28v	ML	
47	AM2812ADC	32	8	SSS	1.0M*	MPX		12	5.0	.80	4.0	200n	1.6m	.40	0 7	PN28v	ML	
48	AM2812ADM	32	8	SSS	1.0M*	MPX		12	5.0	.80	4.0	200n	1.6m	.40	5 C	PN28v	ML	
49	AM2813DC	32	9	SSS	500k*	MPX		12	5.0	.80	4.0	200n	1.6m	.40	0 7	PN28w	ML	
50	AM2813DM	32	9	SSS	500k*	MPX		12	5.0	.80	4.0	200n	1.6m	.40	5 C	PN28w	ML	
51	AM2813ADC	32	9	SSS	1.0M*	MPX		12	5.0	.80	4.0	200n	1.6m	.40	0 7	PN28w	ML	
52	AM2813ADM	32	9	SSS	1.0M*	MPX		12	5.0	.80	4.0	200n	1.6m	.40	5 C	PN28w	ML	
53	FR1502E02	40	9	SSS	250k	MPX	685m	12	5.0	.80	3.5	500n	1.6m	.40	0 7	F297	ML32a	
54	FR1502E01	40	9	SSS	500k	MPX	685m	12	5.0	.80	3.5	500n	1.6m	.40	0 7	F297	ML32a	
55	33512DC	40	9	SSS	1.0M	MPG	420m	12	5.0	.80	4.0	500n	1.6m	.40	0 7	F472	ML192	
56	FR1502E	40	9	SSS	1.0M	MPX	685m	12	5.0	.80	3.5	500n	1.6m	.40	0 7	F297	ML32a	
57	33511DC	40	9	SSS	2.0M	MPG	520m	12	5.0	.80	4.0	500n	1.6m	.40	0 7	F472	ML192	
58	uPD107C	48	2	SSD	100k	MPX		24	0.0	-9.3*	-3.7#	2.5u	80u	-13	2 7	F414	MO001AA	
59	RC2004K	50	2	SSS	1.0M	MPG		28	0.0	-2.0	-1.0	450n			5 8	F48	CY7	
60	S2004K	50	2	SSS	1.0M	MPG		28	0.0	-2.0	-1.0	450n			5 8	F48	CY7	
61	SL5-2050-12	50	2	SSS	1.0M	MPN	275m	12	5.0	.80	3.5	400n	1.6m	.40	0 7	F25d	ML250	
62	SL5-2050-16	50	2	SSS	1.0M	MPN	275m	12	5.0	.80	3.5	400n	1.6m	.40	0 7	F25	TO78	
63	SL5-2050-30	50	2	SSS	1.0M	MPN	275m	12	5.0	.80	3.5	400n	1.6m	.40	0 7	F25a	ML64	
64	SL6-2050-16	50	2	SSS	1.0M	MPN	300m	12	5.0	.80	3.5	500n	1.6m	.40	5 C	F25	TO78	
65	SL6-2050-69	50	2	SSS	1.0M	MPN	300m	12	5.0	.80	3.5	500n	1.6m	.40	5 C	F25	ML125b	
66	SL7-2050-30	50	2	SSS	1.0M	MPN	275m	12	5.0	.80	3.5	400n	1.6m	.40	0 7	F25e	ML64	
67	uPD351C	60	3	PPD	100k	MPX		24	0.0	-9.0*	-4.0#	2.5u			1 7	PN18de	MO001AC	
68	4557BDC	64	1	SSS		MCX	400m	0.0	15	4.0	1.1	4.5m	1.5		4 8	PN18fg	ML157e	
69	4557BDM	64	1	SSS		MCX	400m	0.0	15	4.0	1.1	4.5m	1.5		5 C	PN18fg	ML157e	
70	4557BFC	64	1	SSS		MCX	400m	0.0	15	4.0	1.1	4.5m	1.5		4 8	PN18fg	FL14j	
71	4557BFM	64	1	SSS		MCX	400m	0.0	15	4.0	1.1	4.5m	1.5		5 C	PN18fg	FL14j	
72	4557BPC	64	1	SSS		MCX	400m	0.0	15	4.0	1.1	4.5m	1.5		4 8	PN18fg	ML170	
73	HEF4031B	64	1	SSS		MCX	400m	0.0	15	3.0	7.0	2.0m	.50		4 8	F436	ML	
74	JANM38510/05705BFA	64	1	SSS	700k	MCX	200m	0.0	5.0	.85	3.95	1.5u	900u	.50	5 C	F253	FL31	
75	JANM38510/05705CFA	64	1	SSS	700k	MCX	200m	0.0	5.0	.85	3.95	1.5u	900u	.50	5 C	F253	FL31	
76	CD4031AE	64	1	SSS	1.0M	MCX	14m	0.0	10	.05	9.95	800n	80u	0.5	4 8	F176	MO001AC	
77	CD4031AY	64	1	SSS	1.0M	MCX	14m	0.0	10	.05	9.95	800n	80u	.50	4 8	F176	MO001AC	
78	HBF4031AE	64	1	SSS	1.0M	MCX	14m	0.0	10	.05	9.9	800n	80u	9.5	4 8	F176	MO001AC	
79	HBF4031AF	64	1	SSS	1.0M	MCX	14m	0.0	10	.05	9.9	800n	80u	9.5	4 8	F176	ML127c	
80	CD4031AD	64	1	SSS	2.0M	MCX	15m	0.0	10	.05	9.95	400n	140u	0.5	5 C	F176	MO001AB	
81	CD4031AF	64	1	SSS	2.0M	MCX	15m	0.0	10	.05	9.95	400n	140u	.50	5 C	F176	MO001AC	
82	CD4031AH	64	1	SSS	2.0M	MCX	15m	0.0	10	.05	9.95	400n	140u	.50	5 C	F176	CH5	
83	CD4031AK	64	1	SSS	2.0													

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS / REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT @ OUT (V)		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS			
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		(A)	(V)			LOGIC/BLOCK	OUTLINE		
1#	uPD109A	64	2	SSD	100k	MPX	275m	24	0.0	-24	0.0	20u	80u	-13	2	+	F415	TO101		
2	SL5-2064-12	64	2	SSS	1.0M	MPN	275m	12	5.0	.80	3.5	400n	1.6m	.40	0	7	F25d	ML250		
3	SL5-2064-16	64	2	SSS	1.0M	MPN	275m	12	5.0	.80	3.5	400n	1.6m	.40	0	7	F25	TO78		
4	SL5-2064-30	64	2	SSS	1.0M	MPN	275m	12	5.0	.80	3.5	400n	1.6m	.40	0	7	F25a	ML84		
5	SL6-2064-16	64	2	SSS	1.0M	MPN	300m	12	5.0	.80	3.5	500n	1.6m	.40	0	7	F25	TO78		
6	SL7-2064-30	64	2	SSS	1.0M	MPN	275m	12	5.0	.80	3.5	400n	1.6m	.40	0	7	F25e	ML64		
7	MC14517BAL	64	2	SSS	5.3M \emptyset	MCX	300u \emptyset	0.0	15	4.0	11	215n \emptyset	3.4m	1.5	5	C	F248	ML98b		
8	MC14517BCL	64	2	SSS	5.3M \emptyset	MCX	3.0m \emptyset	0.0	15	4.0	11	215n \emptyset	3.0m	1.5	5	C	F248	ML98b		
9	MC14517BCP	64	2	SSS	5.3M \emptyset	MCX	3.0m \emptyset	0.0	15	4.0	11	215n \emptyset	3.0m	1.5	5	C	F248	ML145		
10	CD4517BD	64	2	SSS	6.7M		500m	0.5	20#	1.5	3.5	250n	3.4	1.5	6.0M	5	C	F558	MO001AB	
11	CD4517BE	64	2	SSS	6.7M		500m	0.5	20#	1.5	3.5	250n	3.4	1.5	6.0M	5	C	F558	MO001AC	
12	CD4517BF	64	2	SSS	6.7M		500m	0.5	20#	1.5	3.5	250n	3.4	1.5	6.0M	5	C	F558	MO001AC	
13	CD4517BH	64	2	SSS	6.7M		500m	0.5	20#	1.5	3.5	250n	3.4	1.5	6.0M	5	C	F558	MO001AC	
14#	HEF4517BD	64	2	SSS	20M \uparrow	MCX	3.0m \uparrow	0.0	15	4.0	11	60n	3.0m	1.5	4	4	8	F498	ML127x	
15#	HEF4517BP	64	2	SSS	20M \uparrow	MCX	3.0m \uparrow	0.0	15	4.0	11	60n	3.0m	1.5	4	4	8	F498	ML89i	
16	TDC1005J	64	2	SSS	25M	BTX	525m	0.0	5.0	.80	2.0	30n	4.0m	.50	10	0	7	F549	ML299	
17	3333-9-7K	64	3	SSD	1.0M \emptyset	MX	750m \emptyset	27	0.0	-2.0	-9.0				10k \emptyset	0	7	F75	ML57	
18#	uPD358C	64	4	SSD	100k	MX		24	0.0	-24	0.0	2.0u			0	2	7	F420	MO001AC	
19	AM2841DC	64	4	SSD ∇		MPS		12	5.0	.80	4.0	200n \uparrow	1.6m	.40	0	7	F294	ML127k		
20	AM2841DM	64	4	SSD ∇		MPS		12	5.0	.80	4.0	200n \uparrow	1.6m	.40	0	7	F294	ML62c		
21	AM3341DC	64	4	SSD ∇		MPS		12	5.0	.80	4.0	250n \uparrow	1.6m	.40	0	7	F294	ML127k		
22	AM3341DM	64	4	SSD ∇		MPS		12	5.0	.80	4.0	250n \uparrow	1.6m	.40	0	7		ML62c		
23	AM3341PC	64	4	SSD ∇		MPS		12	5.0	.80	4.0	250n \uparrow	1.6m	.40	0	7		ML89a		
24	3342	64	4	SSS	1.5M	MPG	380m	12	5.0	.40	2.4	265n	1.6m	.40	0	7		F119		
25#	GZF1108D	64	4	SSS	2.0M	MCX		0.0	5.0	1.5	3.5	350n	1.6m	.40	4	8	F327	ML134a		
26	4731BDC	64	4	SSS	3.0M \emptyset	MCX	15m \emptyset	0.0	10	3.0	7.0	200n	1.2m	.50	4	8	F480	TO116		
27	4731BDM	64	4	SSS	3.0M \emptyset	MCX	15m \emptyset	0.0	10	3.0	7.0	200n	1.2m	.50	4	8	F480	TO116		
28	4731BFC	64	4	SSS	3.0M \emptyset	MCX	15m \emptyset	0.0	10	3.0	7.0	200n	1.2m	.50	4	8	F480a	FL14j		
29	4731BFM	64	4	SSS	3.0M \emptyset	MCX	15m \emptyset	0.0	10	3.0	7.0	200n	1.2m	.50	4	8	F480	F480a		
30	4731BPC	64	4	SSS	3.0M \emptyset	MCX	15m \emptyset	0.0	10	3.0	7.0	200n	1.2m	.50	4	8	F480	ML261		
31#	GZF1108P	64	4	SSS	4.0M	MCX	500u \emptyset	0.0	10	3.0	7.0	175n	1.6m	4.75	4	8	F318	MLj		
32	57401J	64	4	SSS ∇	7.0M	BDT	750m	0.0	5.0	.80	2.0	55n	8.0m	.50	5	0	7	F209	ML280	
33	67401N	64	4	SSS ∇	1.0M	BDT	750m	0.0	5.0	.80	2.0	45n	8.0m	.50	5	0	7	F209	ML281	
34	57401AJ	64	4	SSS ∇	15M \uparrow	BDT	750m	0.0	5.0	.80	2.0	55n	8.0m	.50	5	0	7	F526	ML280	
35	67401AN	64	4	SSS ∇	15M \uparrow	BDT	750m	0.0	5.0	.80	2.0	45n	8.0m	.50	5	0	7	F526	ML281	
36#	HEF4731BD	64	4	SSS	20M \uparrow	MCX	3.0m \uparrow	0.0	15	4.0	11	60n	3.0m	1.5	4	8	F480	ML93j		
37#	HEF4731BP	64	4	SSS	20M \uparrow	MCX	3.0m \uparrow	0.0	15	4.0	11	60n	3.0m	1.5	4	8	F480	ML71g		
38#	HEF4731VD	64	4	SSS	20M \uparrow	MCX	1.0m \uparrow	0.0	10	3.0	7.0	85n	1.1m	.50	4	8	F480	ML93j		
39#	HEF4731VP	64	4	SSS	20M \uparrow	MCX	1.0m \uparrow	0.0	10	3.0	7.0	85n	1.1m	.50	4	8	F480	ML71g		
40	57402AJ	64	5	SSS ∇	15M \uparrow	BDT	800m	0.0	5.0	.80	2.0	53n \uparrow	8.0m	.50	5	0	7	F527	ML278	
41	67402AN	64	5	SSS ∇	15M \uparrow	BDT	800m	0.0	5.0	.80	2.0	53n \uparrow	8.0m	.50	5	0	7	F527	ML279	
42	3326-4-5E	66	3	SSD	3.0M \emptyset	MPX	180m	13	0.0	-3.0 \emptyset	-9.0	200n \emptyset			5	0	8	F73	TO100	
43#	uPD192C	72	3	SSD	100k Δ	MPX		0.0	-24	-9.0*	-4.0#	2.5u			1	7	F484	MO001AC		
44	DL1-2080	80	2	SSD	2.0M	MPT	200m	12	12	11 \uparrow	-12#			5.0k	0	7	F19	ML9		
45	SR5015-80	80	4	SS	1.0m	MNG	400	0.0	5.0	.80	3.5			20k	0	7	F561	MLj		
46	3347	80	4	SSS	1.5M	MPG	380m	12	5.0	.40	2.4	265n	1.6m	.40	0	7	F303			
47	33572	80	4	SSS	2.0M	MPG	285m	12	5.0	.80	4.0	215n	1.6m	.40	0	7	F303			
48#	M142B1	80	4	SSS	3.0M Δ	MNG	250m \uparrow	0.0	5.0	.80	2.0	230n	1.6m	.55	0	7	F303a	ML302		
49#	M142D1	80	4	SSS	3.0M Δ	MNG	250m \uparrow	0.0	5.0	.80	2.0	230n	1.6m	.55	0	7	F303a	ML301		
50	33571	80	4	SSS	4.0M	MPG	375m	12	5.0	.80	4.0	215n	1.6m	.40	0	7	F303			
51	SR5015-81	81	4	SS	1.0m	MNG	400	0.0	5.0	.80	3.5			1.0M#	0	7	F561	MLj		
52	SR5018	81	4	SS	1.0m	MNG	500m	0.0	5.0	.80	3.5			1.0M#	0	7	F561	MLj		
53	1406T	100	2	SSD		MPG	80m \uparrow	5.0	5.0	.80	2.5	100n	200u	.40	5	0	7	TO99		
54	1407T	100	2	SSD		MPG	80m \uparrow	5.0	5.0	.80	2.5	100n	200u	.40	5	0	7	TO99		
55	1508T	100	2	SSD		MPG	80m \uparrow	5.0	5.0	.80	2.5	100n	200u	.40	1.0M#	0	7	TO99		
56	1507T	100	2	SSD		MPG	80m \uparrow	5.0	5.0	.80	2.5	100n	200u	.40	1.0M#	0	7	TO99		
57	AM1406HM	100	2	SSD	2.0M	MPG	500m \uparrow	5.0	5.0	.80	2.5	100n	200u	.40	80	5	0	7	F256	TO99
58	AM1407HM	100	2	SSD	2.0M	MPG	500m \uparrow	5.0	5.0	.80	2.5	100n	200u	.40	80	5	0	7	F256	TO99
59	AM1506HC	100	2	SSD	2.0M	MPG	500m \uparrow	5.0	5.0	.80	2.5	100n	200u	.40	80	5	0	7	F256	TO99
60	AM1507HC	100	2	SSD	2.0M	MPG	500m \uparrow	5.0	5.0	.80	2.5	100n	200u	.40	80	5	0	7	F256	TO99
61	M1406	100	2	SSD	2.0M \emptyset	MPG	110m	5.0	5.0	.80	3.5	100n	1.6m	.40	6.0k	5	0	7	PN8f	CY4a
62	M1407	100	2	SSD	2.0M \emptyset	MPG	110m	5.0	5.0	.80	3.5	100n	1.6m	.40	6.0k	5	0	7	PN8f	CY4a
63	M1506	100	2	SSD	2.0M \emptyset	MPG	110m	5.0	5.0	.80	3.5	100n	1.6m	.40	6.0k	5	0	7	PN8f	CY4a
64	M1507	100	2	SSD	2.0M \emptyset	MPG	110m	5.0	5.0	.80	3.5	100n	1.6m	.40	6.0k	5	0	7	PN8f	CY4a
65#	RC2005K	100	2	SSS	1.0M	MPG		28	0.0	-2.0	-1.0	450n			5	8	F48	CY7		
66	S2005K	100	2	SSS	1.0M	MPG		28	0.0	-2.0	-1.0	450n			5	8	F48	CY7		
67	3307-4-5F	100	2	SSS	1.0M	MPX	350m \emptyset	27	0.0	-2.0	-9.0	450n			5	8	F3b	TO100		
68	SL7-C2100-30	100	2	SSS	2.0M	MPN	350m \emptyset	12	5.0	.80	3.5	200n \uparrow	1.6m	.40	0	7	F25f	ML64		
69	N2010K	100	2	SSS	3.0M	MPX		2.8	0.0	-1.0	-8.0	250n \emptyset			0	7	F48	CY7		
70	MC14562BAL	128	1	SSS	4.0M \emptyset	MCX	300u \emptyset	0.0	15	4.0	11	340n \emptyset	3.4m	1.5	5	C	F275	TO116		
71	MC14562BCL	128	1	SSS	4.0M \emptyset	MCX	3.0m \emptyset	0.0	15	4.0	11	340n \emptyset	3.0m	1.5	4	8	F275	TO116		
72	MC14562BCP	128	1	SSS	4.0M \emptyset	MCX	3.0m \emptyset	0.0	15	4.0	11	340n \emptyset	3.0m	1.5	4	8	F275	ML124		
73	MS625	128	1	SSS	5.0M	MCX	10u \emptyset	0.0	12	2.0	8.0	200n	600u	.50	5	C	F165	CHj		
74	MC14562CL	128	1	SSS	5.6M Δ															

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX. W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	MAX STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT		MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS		
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)		@ OUT	LOGIC/BLOCK			OUTLINE		
1	2529V	240	2	SSS	1.5MΔ	MPG	155m	5.0	0.0	.85	4.0	150n	1.6m	.40	10k	0	7	PN8m	ML163
2	3383-9-5F	256	1	SSD	2.0MΔ	MPG	675m	12	5.0	.80	2.0	30n	4.0m	.50		0	7	F76	TO100
3	TDC1006J	256	1	SSD	2.5M	BTX	535m	0.0	5.0	.80	2.0	30n	4.0m	.50		0	7	F550	ML299
4	2529N	256	2	SSS	1.5MΔ	MPG	155m	12	5.0	.80	4.0	450n	1.6m	.50		0	7	F130	ML163b
5	AM2856HC	256	2	SSS	2.5M	MPG	200m	12	5.0	.80	4.0	280n	1.6m	.40		0	7	F292a	TO100
6	AM2856HM	256	2	SSS	2.5M	MPG	200m	12	5.0	.80	4.0	280n	1.6m	.40		5	C	F292a	TO100
7	SL9-2256-23#1	256Δ	2	SSS	2.5M	MPG	200m	5.0	5.0	.80	3.5	340n	1.6m	.50		0	7	F147b	TO100
8	SL9-2256-28#1	256Δ	2	SSS	2.5M	MPG	200m	5.0	5.0	.80	3.5	340n	1.6m	.50		0	7	F147d	ML64
9	SL9-2256-69#1	256Δ	2	SSS	2.5M	MPG	200m	5.0	5.0	.80	3.5	340n	1.6m	.50		0	7	F147d	ML9
10	SL9-2256-23#2	256Δ	2	SSS	4.0M	MPG	380m	12	5.0	.80	3.5	260n	1.6m	.50		0	7	F147b	TO100
11	SL9-2256-28#2	256Δ	2	SSS	4.0M	MPG	380m	12	5.0	.80	3.5	260n	1.6m	.50		0	7	F147d	ML64
12	SL9-2256-69#2	256Δ	2	SSS	4.0M	MPG	380m	12	5.0	.80	3.5	260n	1.6m	.50		0	7	F147d	ML9
13	DL9-4256-28#1	256Δ	4	SSD	2.5M	MPG	250m	5.0	5.0	.80	3.5	340n	1.6m	.50	10k	0	7	F147	ML64
14	DL9-4256-69#1	256Δ	4	SSD	2.5M	MPG	250m	5.0	5.0	.80	3.5	340n	1.6m	.50	10k	0	7	F147	ML9
15	1402AB	256	4	SSD	2.5MΔ	MPX		5.0	0.0			10u*						PN16da	ML85
16	1402AI	256	4	SSD	2.5MΔ	MPX		5.0	0.0			10u*						PN16da	ML107a
17	AM1402A59F#2	256	4	SSD	3.0M	MPG	200m	9.0	5.0	-1.0	-2.0	110n	1.6m	.50	1.5M#	0	7	F120b	FL33a
18	AM1402A#2	256	4	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	1.5M#	0	7	F120b	ML127k
19	AM1402ADM#2	256	4	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	100	5	C	F120b	ML62c
20	AM1402APC#2	256	4	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	100	0	7	F120b	ML89a
21	DL9-1402A26#2	256	4	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	10k	0	7	F120	ML7
22	DL9-1402A55#2	256	4	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	10k	0	7	F120	ML65
23	DL9-4256-28#2	256Δ	4	SSD	4.0M	MPG	440m	12	5.0	.80	3.5	260n	1.6m	.50	10k	0	7	F147	ML64
24	DL9-4256-69#2	256Δ	4	SSD	4.0M	MPG	440m	12	5.0	.80	3.5	260n	1.6m	.50	10k	0	7	F147	ML9
25	1402A	256	4	SSD	5.0M	MPG	500m	5.0	5.0	.80	2.4	100n	1.6m	.50		5	C		MO
26	AM1402A#1	256	4	SSD	5.0M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	2.5M#	0	7	F120b	ML127k
27	AM1402ADM#1	256	4	SSD	5.0M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	5	C	F120b	ML62c
28	AM1402APC#1	256	4	SSD	5.0M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	0	7	F120b	ML89a
29	DL9-1402A26#1	256	4	SSD	5.0M	MPG	525m	5.0	5.0	.80	3.0	90n	1.6m	.50	10k	0	7	F120	ML7
30	DL9-1402A55#1	256	4	SSD	5.0M	MPG	525m	5.0	5.0	.80	3.0	90n	1.6m	.50	10k	0	7	F120	ML65
31	AM1402A51E	256	4	SSD	10M	MPG	250m	5.0	5.0	-1.0	-2.0	90n	1.6m	.50	2.5M#	5	C	F120b	ML107
32	AM1402A51F	256	4	SSD	10M	MPG	250m	5.0	5.0	-1.0	-2.0	90n	1.6m	.50	2.5M#	5	C	F120b	FL33a
33	AM1402A59F#1	256	4	SSD	10M	MPG	250m	5.0	5.0	-1.0	-2.0	90n	1.6m	.50	2.5M#	0	7	F120b	ML127k
34	AM2802DC	256	4	SSD	10M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	5	C	F120b	ML62c
35	AM2802DM	256	4	SSD	10M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	0	7	F120b	ML89a
36	AM2802PC	256	4	SSD	10M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	0	7	F120b	ML89a
37	MM4056H	256	4	SSS	1.0MΔ	MPG	163m	12	5.0	.80	4.0	700n	1.6m	.40		5	C	F340c	TO100
38	MM5056H	256	4	SSS	1.0MΔ	MPG	163m	12	5.0	.80	3.5	345n	1.6m	.40		0	7	F340c	TO100
39	3330-9-5F	480	1	SSD	2.0M	MPG	250m	0.0	5.0	.85	4.0	150n	1.6m	.40	10k	0	7	F74	TO100
40	3331-9-5F	500	1	SSD	2.0M	MPG	250m	0.0	5.0	.85	4.0	150n	1.6m	.40	10k	0	7	F74	TO100
41	3329-9-5F	512	1	SSD	2.0M	MPG	250m	0.0	5.0	.85	4.0	150n	1.6m	.40	10k	0	7	F74	TO100
42	1405K	512	1	SSD	2.0MΔ	MPX		5.0	0.0			30u*						F401	CY7
43	2505K	512	1	SSD	2.5MΔ	MPG	535m	5.0	5.0	1.0	3.2	100n			500	0	7	F30	TO100
44	AM2805HM	512	1	SSD	3.0MΔ	MPG	60m	5.0	5.0	.80	3.0	5.0n*	1.0uΔ	1.0		5	C	F288	ML163b
45	2524N	512	1	SSD	3.0MΔ	MPX	535m	5.0	5.0	.60	3.4	100n						F546	ML163b
46	1405A	512	1	SSD	4.0MΔ	MPG	60m	5.0	5.0	.80	3.0	5.0n*	1.0uΔ					F288	TO100
47	AM2805HC	512	1	SSD	4.0MΔ	MPG	60m	5.0	5.0	.80	3.0	5.0n*	1.0uΔ					F288b	ML163
48	AM2807PC	512	1	SSD	4.0MΔ	MPG	60m	5.0	5.0	.80	3.0	5.0n*	1.0uΔ					F340b	ML202
49	MM4057D	512	1	SSS	1.0MΔ	MPG	163m	12	5.0	.80	4.0	700n	1.6m	.40		5	C	F340b	ML202
50	MM5057D	512	1	SSS	1.0MΔ	MPG	163m	12	5.0	.80	3.5	345n	1.6m	.40		0	7	F340b	ML116b
51	MM5057N	512	1	SSS	1.0MΔ	MPG	163m	12	5.0	.80	3.5	345n	1.6m	.40		0	7	F340b	ML164
52	AM2857DC	512	1	SSS	2.5M	MPG		12	5.0	.80	4.0	280n	1.6m	.40		5	C	F292b	ML164
53	AM2857DM	512	1	SSS	2.5M	MPG		12	5.0	.80	4.0	280n	1.6m	.40		5	C	F292b	ML163
54	AM2857PC	512	1	SSS	2.5M	MPG		12	5.0	.80	4.0	280n	1.6m	.40		0	7	F292b	ML163
55	SL9-1512-23#1	512Δ	1	SSS	2.5M	MPG	200m	5.0	5.0	.80	3.5	340n	1.6m	.50		0	7	F147a	TO100
56	SL9-1512-28#1	512Δ	1	SSS	2.5M	MPG	200m	5.0	5.0	.80	3.5	340n	1.6m	.50		0	7	F147c	ML64
57	SL9-1512-69#1	512Δ	1	SSS	2.5M	MPG	200m	5.0	5.0	.80	3.5	340n	1.6m	.50		0	7	F147c	ML9
58	SL9-1512-23#2	512Δ	1	SSS	4.0M	MPG	380m	12	5.0	.80	3.5	260n	1.6m	.50		0	7	F147a	TO100
59	SL9-1512-28#2	512Δ	1	SSS	4.0M	MPG	380m	12	5.0	.80	3.5	260n	1.6m	.50		0	7	F147c	ML64
60	SL9-1512-69#2	512Δ	1	SSS	4.0M	MPG	380m	12	5.0	.80	3.5	260n	1.6m	.50		0	7	F147c	ML9
61	DL9-2512-23#1	512Δ	2	SSD	2.5M	MPG	250m	5.0	5.0	.80	3.5	340n	1.6m	.50	10k	0	7	F147b	TO100
62	DL9-2512-28#1	512Δ	2	SSD	2.5M	MPG	250m	5.0	5.0	.80	3.5	340n	1.6m	.50	10k	0	7	F147d	ML64
63	DL9-2512-69#1	512Δ	2	SSD	2.5M	MPG	250m	5.0	5.0	.80	3.5	340n	1.6m	.50	10k	0	7	F147d	ML9
64	1403ATA	512	2	SSD	2.5MΔ	MPX		5.0	0.0			10u*						PN8d	CY4c
65	1403AV	512	2	SSD	2.5MΔ	MPX		5.0	0.0			10u*						PN8d	ML163
66	AM1403A59F#2	512	2	SSD	3.0M	MPG	200m	9.0	5.0	-1.0	-2.0	110n	1.6m	.50	1.5M#	0	7	F120a	FL33a
67	AM1403A#2	512	2	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	100	5	C	F120a	TO99
68	AM1403A9M#2	512	2	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	100	0	7	F120a	TO99
69	AM1403APC#2	512	2	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	100	0	7	F120a	ML89a
70	DL9-1403A15#2	512	2	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	10k	0	7	F120a	TO99
71	DL9-1403A26#2	512	2	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	10k	0	7	F120c	ML7
72	DL9-1403A55#2	512	2	SSD	3.0M	MPG	600m	9.0	5.0	.80	3.0	110n	1.6m	.50	10k	0	7	F120c	ML65
73	DL9-2512-23#2	512Δ	2	SSD	4.0M	MPG	440m	12	5.0	.80	3.5	260n	1.6m	.50	10k	0	7	F147b	TO100
74	DL9-2512-28#2	512Δ	2	SSD	4.0M	MPG	440m	12	5.0	.80	3.5	260n	1.6m	.50	10k	0	7	F147d</	

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGISTERS
(3) OP. CODE (4) MAX W/C FREQ (5) STRUCT (6) TYPE No

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP.		INPUT LOGIC LEVELS		MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT (A)	MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE	DRAWINGS			
		BITS PER REGISTER	No. REGS					NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)					MIN CLOCK FREQ. (Hz)	MIN CLOCK FREQ. (Hz)	LOGIC/BLOCK	OUTLINE
1	AM1404APC#1	1024	1	SSD	5.0M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	0	7	F120b	ML89a
2	DL9-1404A15#1	1024	1	SSD	5.0M	MPG	525m	5.0	5.0	.80	3.0	90n	1.6m	.50	10k	0	7	F120b	TO99
3	DL9-1404A26#1	1024	1	SSD	5.0M	MPG	525m	5.0	5.0	.80	3.0	90n	1.6m	.50	10k	0	7	F120d	ML7
4	DL9-1404A55#1	1024	1	SSD	5.0M	MPG	525m	5.0	5.0	.80	3.0	90n	1.6m	.50	10k	0	7	F120d	ML65
5	AM1404A51F	1024	1	SSD	10M	MPG	250m	5.0	5.0	-1.0	-2.0	90n	1.6m	.50	2.5M#	5	C	F120b	FL33a
6	AM1404A51T	1024	1	SSD	10M	MPG	250m	5.0	5.0	-1.0	-2.0	90n	1.6m	.50	2.5M#	5	C	F120b	TO99
7	AM1404A59F#1	1024	1	SSD	10M	MPG	250m	5.0	5.0	-1.0	-2.0	90n	1.6m	.50	2.5M#	0	7	F120b	FL33a
8	AM2804HC	1024	1	SSD	10M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	0	7	F120b	TO99
9	AM2804HM	1024	1	SSD	10M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	5	C	F120b	TO99
10	AM2804FC	1024	1	SSD	10M	MPG	600m	5.0	5.0	.80	3.0	90n	1.6m	.50	100	0	7	F120b	ML163
11	AM2833DC	1024	1	SSS	2.0M	MPG	175m	12	5.0	.80	2.0	300n	1.6m	.40		0	7	F287	ML164
12	AM2833DM	1024	1	SSS	2.0M	MPG	175m	12	5.0	.80	2.0	300n	1.6m	.40		5	C	F287	ML164
13	AM2833PC	1024	1	SSS	2.0M	MPG	175m	12	5.0	.80	2.0	300n	1.6m	.40		0	7	F287	ML163
14	AM3355DC	1024	1	SSS	4.0M	MPG		12	5.0	.40%	4.0	215m	1.6m	.40		0	7	F287	ML164
15	AM3355PC	1024	1	SSS	4.0M	MPG		12	5.0	.40%	4.0	215m	1.6m	.40		0	7	F287	ML163
16	C2401	1024	2	SSD	1.0k	MNG	1.0	0.0	5.0	.65	2.2		5.0m	.45		0	7	F106	ML10c
17	P2401	1024	2	SSD	1.0k	MNG	1.0	0.0	5.0	.65	2.2	500n	6.3m	.45	25k	0	7	F106	ML89a
18	AM9401DC	1024	2	SSD	2.0M	MNG	315m	0.0	5.0	.65	2.2	320n	1.6m	.45	25k	0	7	F106	ML127k
19	AM9401DM	1024	2	SSD	2.0M	MNG	315m	0.0	5.0	.65	2.2	320n	1.6m	.45	25k	5	C	F106	ML62c
20	AM9401PC	1024	2	SSD	2.0M	MNG	315m	0.0	5.0	.65	2.2	320n	1.6m	.45	25k	0	7	F106	ML89a

20. SPECIAL MEMORY DEVICES

IN ORDER OF: (1)FUNCTION CODE (2)NO. WORDS
(3)BITS/WD (4)OP MODE (5)STRUCT (6)TYPE NO.

LINE No.	TYPE No.	FUNCTION CODE	ORGANIZATION		MODESTRUC CODE	MAX. ACCESS TIME (S)	MAX. OPER. PWR. DISS. (W)	RATED PWR. SUPPLY SPAN		INPUT LOGIC LEVELS		MIN. OUTPUT SINK CURRENT (A)	OUTPUT VOLT (V)	TEMP. RNG. CODE	GENERAL DESCRIPTION	DRAWINGS		
			No. WORDS	BITS per WORD				NEG. (V)	POS. (V)	MAX. '0' (V)	MIN. '1' (V)					LOGIC/BLOCK	OUT-LINE	
																		OP	STRUC
1	N8220B	CAM	4	2	SW	85n	590m	0.0	5.0	.80	2.0	30m	.40	0	7	Z21	ML132	
2	F100142DC	CAM	4	4	SW	2.7n	1.3	4.5	0.0	-1.4	-1.1			0	8	Z30	ML133h	
3	F100142FC	CAM	4	4	SW	2.7n	1.3	4.5	0.0	-1.4	-1.1			0	8	Z30a	FL48	
4	10155F	CAM	8	2	SW	17n	754m	5.2	0.0	-1.8	-1.1			3	8	Z53	ML165a	
5	10155N	CAM	8	2	SW	17n	754m	5.2	0.0	-1.8	-1.1			3	8	Z53	ML291	
6	SCM5533D	CAM	8	8	SW	250n	6.0m	0.0	10	.05	9.95	360u	9.5	5	C	Z12	ML195	
7	SCM5533H	CAM	8	8	SW	250n	6.0m	0.0	10	.05	9.95	360u	9.5	5	C	Z12	CHZ	
8	GXB 10155	CAM	8	2	SW	17n	728m	5.2	0.0	-1.4	-1.1			3	8	Z33		
9	CCD450ADC	CCD	1024	8	C	140n	250m	2.5	12	.80	2.2	2.0m	.40	0	5	9 Reg	Z57	ML134c
10	CCD450DC	CCD	1024	8	C	180n	250m	2.5	12	.80	2.2	2.0m	.40	0	5	9 Reg	Z57	ML134c
11	TIB0203	MBM	144	4	SX	7.5u	700m		12	.80	2.2			0	5	50kb/s	Z59	ML356
12	7110	MBM	256	4K	S									0	7	CAP1MBit		
13	7110-1	MBM	256	4K	S									0	7	CAP1MBit		
14	7110-2	MBM	256	4K	S									0	7	CAP1MBit		
15	7110-3	MBM	256	4K	S									0	7	CAP1MBit		
16	RBM256	MBM	260	1k	SX									1	7	260kmin	Z54	ML298
17	N825102I	PGA	1	9	SE	4.0m	1.0	0.0	5.0	.85	2.0	9.6m	.45	0	7	16 VAR	Z32	ML218b
18	N825102N	PGA	1	9	SE	30n	600m	0.0	5.0	.85	2.0	9.6m	.45	0	7	16 VAR	Z63	ML290
19	N825103I	PGA	1	9	SE	30n	600m	0.0	5.0	.85	2.0	9.6m	.45	0	7	16 VAR	Z32	ML218b
20	N825103N	PGA	1	9	SE	30n	600m	0.0	5.0	.85	2.0	9.6m	.45	0	7	16 VAR	Z63	ML290
21	S825102I	PGA	1	9	SE	55n	900m	0.0	5.0	.80	2.0	9.6m	.50	5	C	16 VAR	Z32	ML218b
22	S825103I	PGA	1	9	SE	55n	900m	0.0	5.0	.80	2.0	9.6m	.50	5	C	16 VAR	Z32	ML218b
23	RC82S102I	PGA	1	9	SE	55n	900m	0.0	5.0	.80	2.0	9.6m	.50	5	C	16VAR	Z32	ML218b
24	RC82S102N	PGA	1	9	SE	50n	600m	0.0	5.0	.80	2.0	9.6m	.50	5	C	16VAR	Z32	ML199
25	RC82S103I	PGA	1	9	SE	55n	900m	0.0	5.0	.80	2.0	9.6m	.50	5	C	16VAR	Z32	ML218b
26	RC82S103N	PGA	1	9	SE	50n	600m	0.0	5.0	.80	2.0	9.6m	.50	5	C	16VAR	Z32	ML199
27	PAL10H8CJ	PLA	2	8	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	10 Input	Z37	ML274
28	PAL10H8CN	PLA	2	8	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	10 Input	Z37	ML275
29	PAL10H8MJ	PLA	2	8	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	10 Input	Z37	ML275
30	PAL10H8MN	PLA	2	8	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	10 Input	Z42	ML274
31	PAL10L8CJ	PLA	2	8	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	10 Input	Z42	ML275
32	PAL10L8CN	PLA	2	8	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	10 Input	Z42	ML274
33	PAL10L8MJ	PLA	2	8	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	10 Input	Z42	ML275
34	PAL10L8MN	PLA	2	8	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	10 Input	Z42	ML274
35	PAL14H4CJ	PLA	4	4	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	14 Input	Z39	ML274
36	PAL14H4CN	PLA	4	4	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	14 Input	Z39	ML275
37	PAL14H4MJ	PLA	4	4	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	14 Input	Z44	ML274
38	PAL14H4MN	PLA	4	4	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	14 Input	Z44	ML275
39	PAL14L4CJ	PLA	4	4	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	14 Input	Z44	ML274
40	PAL14L4CN	PLA	4	4	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	14 Input	Z44	ML275
41	PAL14L4MJ	PLA	4	4	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	14 Input	Z44	ML274
42	PAL14L4MN	PLA	4	4	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	14 Input	Z44	ML275
43	PAL12H6CJ	PLA	4	6	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	12 Input	Z38	ML274
44	PAL12H6CN	PLA	4	6	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	12 Input	Z38	ML275
45	PAL12H6MJ	PLA	4	6	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	12 Input	Z38	ML274
46	PAL12H6MN	PLA	4	6	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	12 Input	Z38	ML275
47	PAL12L6CJ	PLA	4	6	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	12 Input	Z43	ML274
48	PAL12L6CN	PLA	4	6	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	12 Input	Z43	ML275
49	PAL12L6MJ	PLA	4	6	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	12 Input	Z43	ML274
50	PAL12L6MN	PLA	4	6	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	12 Input	Z43	ML275
51	PAL16H2CJ	PLA	8	2	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	16 Input	Z40	ML274
52	PAL16H2CN	PLA	8	2	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	16 Input	Z40	ML275
53	PAL16H2MJ	PLA	8	2	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	16 Input	Z40	ML274
54	PAL16H2MN	PLA	8	2	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	16 Input	Z40	ML275
55	PAL16L2CJ	PLA	8	2	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	16 Input	Z45	ML274
56	PAL16L2CN	PLA	8	2	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	16 Input	Z45	ML275
57	PAL16L2MJ	PLA	8	2	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	16 Input	Z45	ML274
58	PAL16L2MN	PLA	8	2	SE	25n	275m	0.0	5.0	.80	2.0	8.0m	.50	0	7	16 Input	Z45	ML275
59	PAL16A4CJ	PLA	8	4	SE	40n	800m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z51	ML274
60	PAL16A4CN	PLA	8	4	SE	40n	800m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z51	ML275
61	PAL16A4MJ	PLA	8	4	SE	45n	800m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z51	ML274
62	PAL16A4MN	PLA	8	4	SE	45n	800m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z51	ML275
63	PAL16R4CJ	PLA	8	4	SE	40n	750m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z49	ML274
64	PAL16R4CN	PLA	8	4	SE	40n	750m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z49	ML275
65	PAL16R4MJ	PLA	8	4	SE	45n	750m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z49	ML274
66	PAL16R4MN	PLA	8	4	SE	45n	750m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z49	ML275
67	PAL16X4CJ	PLA	8	4	SE	40n	800m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z50	ML274
68	PAL16X4CN	PLA	8	4	SE	40n	800m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z50	ML275
69	PAL16X4MJ	PLA	8	4	SE	45n	800m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z50	ML274
70	PAL16X4MN	PLA	8	4	SE	45n	800m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z50	ML275
71	PAL16R6CJ	PLA	8	6	SE	40n	750m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z48	ML274
72	PAL16R6CN	PLA	8	6	SE	40n	750m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z48	ML275
73	PAL16R6MJ	PLA	8	6	SE	45n	750m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z48	ML274
74	PAL16R6MN	PLA	8	6	SE	45n	750m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z48	ML275
75	PAL16L8CJ	PLA	8	8	SE	40n	700m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z46	ML274
76	PAL16L8CN	PLA	8	8	SE	40n	700m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z46	ML275
77	PAL16L8MJ	PLA	8	8	SE	45n	700m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z46	ML274
78	PAL16L8MN	PLA	8	8	SE	45n	700m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z46	ML275
79	PAL16R8CJ	PLA	8	8	SE	40n	750m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z47	ML274
80	PAL16R8CN	PLA	8	8	SE	40n	750m	0.0	5.0	.80	2.0	24m	.50	0	7	16 Input	Z47	ML275
81	PAL16R8MJ	PLA	8	8	SE	45n	750m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z47	ML274
82	PAL16R8MN	PLA	8	8	SE	45n	750m	0.0	5.0	.80	2.0	12m	.50	5	C	16 Input	Z47	ML275
83	PAL16C1CJ	PLA	16	1	SE	25n	275m											

21. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER
SEQUENCE

TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/
M38510/00901BAA	MOTA	9C	M38510/00904CEA	MOTA	9C	M38510/05701BCA	none	57B	M38510/07601BEB	AMD	76	M38510/20301BEA	SIC	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901BAB	MOTA	9C	M38510/00904CEB	MOTA	9C	M38510/05701BCB	RCA	57B	M38510/07601BFB	AMD	76	M38510/20301BEB	HAS	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901BCA	MOTA	9C	M38510/00904CEA	MOTA	9C	M38510/05701BCC	MOTA	57B	M38510/07601CEB	AMD	76	M38510/20301BEC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901BCB	MOTA	9C	M38510/00904CFB	MOTA	9C	M38510/05701CCA	none	57B	M38510/07601CFB	AMD	76	M38510/20301BFC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901BDA	none	9C	M38510/00905BEA	MOTA	9C	M38510/05701CCB	RCA	57B	M38510/15901BEA	MOTA	159	M38510/20301CEC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901BDB	none	9C	M38510/00905BEB	MOTA	9C	M38510/05701CCC	MOTA	57B	M38510/15901BEB	MOTA	159	M38510/20301CEA	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901CAA	MOTA	9C	M38510/00905BFA	MOTA	9C	M38510/05702BEB	RCA	57B	M38510/15901BFB	MOTA	159	M38510/20301CFA	none	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901CAB	MOTA	9C	M38510/00905BFB	MOTA	9C	M38510/05702BFA	RCA	57B	M38510/15901BFA	MOTA	159	M38510/20301CFB	none	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901CCA	MOTA	9C	M38510/00905CEA	MOTA	9C	M38510/05702CEB	RCA	57B	M38510/15901BFB	MOTA	159	M38510/20301CFC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901CCB	MOTA	9C	M38510/00905CEB	MOTA	9C	M38510/05702CFA	RCA	57B	M38510/15901CEA	MOTA	159	M38510/20302BEA	SIC	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901CDA	none	9C	M38510/00905CFA	MOTA	9C	M38510/05703BEA	SSS	57B	M38510/15901CEB	MOTA	159	M38510/20302BEB	HAS	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00901CDB	none	9C	M38510/00905CFB	MOTA	9C	M38510/05703BEB	RCA	57B	M38510/15901CFA	MOTA	159	M38510/20302BEC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00902BEA	MOTA	9C	M38510/00906BEA	MOTA	9C	M38510/05703BEC	SSS	57B	M38510/15901CFB	MOTA	159	M38510/20302BFC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00902BEB	MOTA	9C	M38510/00906BEB	MOTA	9C	M38510/05703BFA	RCA	57B	M38510/15902BEA	MOTA	159	M38510/20302CEA	SIC	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00902BFA	MOTA	9C	M38510/00906BFA	MOTA	9C	M38510/05703CEA	SSS	57B	M38510/15902BEB	MOTA	159	M38510/20302CEB	HAS	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00902BFB	MOTA	9C	M38510/00906BFB	MOTA	9C	M38510/05703CEB	RCA	57B	M38510/15902BFA	MOTA	159	M38510/20302CEC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00902CEA	MOTA	9C	M38510/00906CEA	MOTA	9C	M38510/05703CEC	SSS	57B	M38510/15902BFB	MOTA	159	M38510/20302CFC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00902CEB	MOTA	9C	M38510/00906CEB	MOTA	9C	M38510/05703CFA	RCA	57B	M38510/15902CEA	MOTA	159	M38510/20302CFA	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00902CFA	MOTA	9C	M38510/00906CFA	MOTA	9C	M38510/05704BEA	SSS	57B	M38510/15902CEB	MOTA	159	M38510/20302CEB	HAS	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00902CFB	MOTA	9C	M38510/00906CFB	MOTA	9C	M38510/05704BEB	RCA	57B	M38510/15902CFA	MOTA	159	M38510/20302CEC	MMI	203
	AMEND	5		AMEND	5		AMEND	2		AMEND	2		AMEND	2
M38510/00903BCA	SIC	9C	M38510/02801BCA	none	28B	M38510/05704BEC	SSS	57B	M38510/15902CFB	MOTA	159	M38510/20302CFC	MMI	203
	AMEND	2		AMEND	2		AMEND	2		AMEND	2		AMEND	2
M38510/00903BCB	SIC	9C	M38510/02801BCB	none	28B	M38510/05704BFA	RCA	57B	M38510/15902CEA	MOTA	159	M38510/20401BEA	SIC	204
	AMEND	2		AMEND	2		AMEND	2		AMEND	2		AMEND	2
M38510/00903CCA	SIC	9C	M38510/02801BDA	NSC	28B	M38510/05704CEA	SSS	57B	M38510/15902CEB	MOTA	159	M38510/20401BEB	HAS	204
	AMEND	2		AMEND	2		AMEND	2		AMEND	2		AMEND	2
M38510/00903CCB	SIC	9C	M38510/02801BDB	none	28B	M38510/05704CEB	RCA	57B	M38510/15902CFA	MOTA	159	M38510/20401BEC	MMI	204
	AMEND	2		AMEND	2		AMEND	2		AMEND	2		AMEND	2
M38510/00904BEA	MOTA	9C	M38510/02801CCA	none	28B	M38510/05704CEC	SSS	57B	M38510/15902CFB	MOTA	159	M38510/20401BFC	MMI	204
	AMEND	2		AMEND	2		AMEND	2		AMEND	2		AMEND	2
M38510/00904BEB	MOTA	9C	M38510/02801CCB	none	28B	M38510/05704CFA	RCA	57B	M38510/20101BFB	HAS	201A	M38510/20401CEA	SIC	204
	AMEND	2		AMEND	2		AMEND	2		AMEND	2		AMEND	2
M38510/00904BFA	MOTA	9C	M38510/02801CDA	none	28B	M38510/05705BFA	RCA	57B	M38510/20101CJB	HAS	201A	M38510/20401CEB	HAS	204
	AMEND	2		AMEND	2		AMEND	2		AMEND	2		AMEND	2
M38510/00904BFB	MOTA	9C	M38510/02801CDB	none	28B	M38510/05705CFA	RCA	57B			1		HAS	204
	AMEND	2		AMEND	2		AMEND	2			1		SIC	204
	AMEND	5		AMEND	5		AMEND	2			1			2
	AMEND	5		AMEND	5		AMEND	2			1			2

21. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER
SEQUENCE

TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/
M38510/20401CEC	MMI	204	M38510/30106BFB	AMD	301	M38510/30604BEB	SIC	306B			
		AMEND 1		AMEND 1	AMEND 1		TII	USAF			
		2		TII	USAF			306B			
M38510/20401CFC	MMI	204	M38510/30106CEA	MOTA	301	M38510/30604BFA	SIC	306B			
		AMEND 2		AMEND 1	AMEND 1			USAF			
		2		TII	USAF			306B			
M38510/20402BEA	SIC	204	M38510/30106CEB	AMD	301	M38510/30604BFB	SIC	306B			
		AMEND 2		FSC	AMEND 1			USAF			
		2		MOTA	USAF			306B			
M38510/20402BEB	HAS	204	M38510/30106CFA	TII	301	M38510/30604CEA	SIC	306B			
	SIC	AMEND 2		MOTA	AMEND 1			USAF			
		2		AMEND 1	USAF			306B			
M38510/20402BEC	MMI	204	M38510/30106CFB	AMD	301	M38510/30604CEB	SIC	306B			
		AMEND 2		FSC	AMEND 1			USAF			
		2		MOTA	USAF			306B			
M38510/20402BEB	HAS	204	M38510/30106CFB	TII	301	M38510/30604CFA	SIC	306B			
	SIC	AMEND 2		MOTA	AMEND 1			USAF			
		2		AMEND 1	USAF			306B			
M38510/20402BEC	MMI	204	M38510/30106CFB	AMD	301	M38510/30604CFB	SIC	306B			
		AMEND 2		FSC	AMEND 1			USAF			
		2		MOTA	USAF			306B			
M38510/20402BFC	MMI	204	M38510/30601BEA	TII	306B	M38510/30605BAB	SIC	306B			
		AMEND 2		MOTA	AMEND 1			USAF			
		2		SIC	USAF			306B			
M38510/20402BFC	MMI	204	M38510/30601BEB	AMD	306B	M38510/30605BAC	AMD	306B			
		AMEND 2		MOTA	AMEND 1		FSC	USAF			
		2		SIC	USAF			306B			
M38510/20402CEA	SIC	204	M38510/30601BFA	TII	306B	M38510/30605BCA	SIC	306B			
		AMEND 2		MOTA	AMEND 1			USAF			
		2		SIC	USAF			306B			
M38510/20402CEB	HAS	204	M38510/30601BFB	AMD	306B	M38510/30605BCB	SIC	306B			
	SIC	AMEND 2		FSC	AMEND 1			USAF			
		2		MOTA	USAF			306B			
M38510/20402CEC	MMI	204	M38510/30601BFB	TII	306B	M38510/30605BDA	SIC	306B			
		AMEND 2		AMEND 1	USAF			USAF			
		2		SIC	USAF			306B			
M38510/20402CFC	MMI	204	M38510/30601CFA	TII	306B	M38510/30605BDB	SIC	306B			
		AMEND 2		MOTA	AMEND 1			USAF			
		2		SIC	USAF			306B			
M38510/20601BVB	HAS	206	M38510/30601CFB	AMD	306B	M38510/30605CCB	SIC	306B			
	SIC	AMEND 1		FSC	AMEND 1			USAF			
		1		MOTA	USAF			306B			
M38510/20601CVB	HAS	206	M38510/30601CEA	TII	306B	M38510/30605CDA	SIC	306B			
	SIC	AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/20602BVB	HAS	206	M38510/30601CEB	TII	306B	M38510/30605CDB	SIC	306B			
	SIC	AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/20602BVB	HAS	206	M38510/30601CEB	TII	306B	M38510/30606BCA	SIC	306B			
	SIC	AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/20602CVB	HAS	206	M38510/30601CFA	TII	306B	M38510/30606BCB	SIC	306B			
	SIC	AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/20901BVB	SIC	209	M38510/30601CFB	AMD	306B	M38510/30606BDB	SIC	306B			
		AMEND 1		FSC	AMEND 1			USAF			
		1		TII	USAF			306B			
M38510/20901CVB	SIC	209	M38510/30602CEA	TII	306B	M38510/30606CCA	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/20902BVB	SIC	209	M38510/30602CEB	AMD	306B	M38510/30606CCB	SIC	306B			
		AMEND 1		FSC	AMEND 1			USAF			
		1		TII	USAF			306B			
M38510/20902CVB	SIC	209	M38510/30602CFA	TII	306B	M38510/30606CDA	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/20903JB	SIC	209	M38510/30602CFB	AMD	306B	M38510/30606CDB	SIC	306B			
		AMEND 1		FSC	AMEND 1			USAF			
		1		TII	USAF			306B			
M38510/20903JB	SIC	209	M38510/30602CFB	TII	306B	M38510/30607BEA	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/20904JB	SIC	209	M38510/30603BEA	TII	306B	M38510/30607BEB	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/20904JB	SIC	209	M38510/30603BFA	TII	306B	M38510/30607BFA	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/23501BWC	TII	235A	M38510/30603BFB	AMD	306B	M38510/30607BFB	SIC	306B			
		AMEND 1		FSC	AMEND 1			USAF			
		1		TII	USAF			306B			
M38510/23501CWC	TII	235A	M38510/30603CEA	TII	306B	M38510/30607BFA	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/23502BVC	TII	235A	M38510/30603CEB	TII	306B	M38510/30607BFB	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/23502CVC	TII	235A	M38510/30603CFA	TII	306B	M38510/30607CEA	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/30106BEA	MOTA	301	M38510/30603CFB	AMD	306B	M38510/30607CEB	SIC	306B			
		AMEND 1		FSC	AMEND 1			USAF			
		1		SIC	USAF			306B			
M38510/30106BEB	AMD	301	M38510/30603CFA	TII	306B	M38510/30607CFA	SIC	306B			
	FSC	AMEND 1		MOTA	AMEND 1			USAF			
	MOTA	USAF		SIC	USAF			306B			
	TII			TII	USAF			306B			
M38510/30106BFA	MOTA	301	M38510/30603CDB	TII	306B	M38510/30607CFB	SIC	306B			
		AMEND 1		MOTA	AMEND 1			USAF			
		1		SIC	USAF			306B			
		USAF		TII	USAF			306B			
				TII	USAF			306B			
				SIC	USAF			306B			

MILITARY DOCUMENTS

Department of Defense Index of Specifications and Standards.

Device Manufacturers Qualifications on Test Reference Letter.

MIL-M-38510D Military Specification, General Specification for Microcircuits, dated 31 August 1977, Amendment 1, dated 21 July 1978, Supplement 1B, dated 31 October 1978.

QPL-38510-44 Qualified Products List (Part I) of Products Qualified Under Military Specification MIL-M-38510, dated 27 June 1980. Qualified Products List (Part II) of Products Qualified Under Military Specification MIL-M-38510, dated 27 June 1980. These products are considered qualified products. Therefore, manufacturers listed on QPL-38510 shall "JAN" mark and ship the specific part-numbered devices for which they are listed, providing all required quality conformance inspections have been successfully completed. They have not been subjected to all the tests required for qualification under the latest effective issue of MIL-M-38510; however, the manufacturers have performed sufficient similar tests to indicate that the products have the potential of complying with the MIL-M-38510 requirements.

MIL-STD-833B Military Standard; Test Methods and Procedures for Microelectronics, dated 31 August 1977, Notice 1, dated 21 July 1978.

MIL-STD-1562B Military Standard; List of Standard Microcircuits, dated 15 Oct. 1979.

NOTE: The 3-letter suffix at the end of the type number represents device class (degree of quality assurance testing), case outline and lead material finish as shown below:

Example:	M38510/00901XXX
Device Class	Case Outline Lead Material and Finish

Only types with actual or previous sources of supply are listed in this edition.

21. COMMERCIAL-TO-MILITARY TYPE NUMBER CROSS-REFERENCE

IN COMMERCIAL
TYPE No. SEQUENCE

COMMERCIAL TYPE No.	MILITARY TYPE No. M38510/	COMMERCIAL TYPE No.	MILITARY TYPE No. M38510/
4006A	20101	93425	23102
4014A	20201	93427	20302, Circuit D
4015A	20202	93436	20401, Circuit D
4021A	20101	93446	20402, Circuit D
4031A	20102	93450	20903, Circuit D
4034A	05701	93451	20904, Circuit D
4035A	05702	93452	20601, Circuit D
54L91	05703	93453	20602, Circuit D
54L95	05704	76L70	00902
54L164	05705	82S10	23101
54LS95	05706	82S11	23102
54LS96	05707	82S126	20301, Circuit C
54LS164	02806	82S129	20302, Circuit C
54LS174	30106	82S130	20401, Circuit C
54LS175	30107	82S131	20402, Circuit C
54LS194	02801	82S136	20601, Circuit C
54LS195	02802	82S137	20602, Circuit C
54LS295	30603	82S180	20903, Circuit C
54LS395	30604	82S181	20904, Circuit C
54S194	07601	82S184	20901, Circuit C
54S195	07602	82S185	20902, Circuit C
5300-1	20301, Circuit B	93L00	00903
5301-1	20302, Circuit B	93L28	00904
5305-1	20401, Circuit B	93L415	23103
5306-1	20402, Circuit B	93L425	23104
5352-1	20601, Circuit B	AM9130CFC	23701
5353-1	20602, Circuit B	AM9130AFC	23702
5380-1	20903, Circuit B	AM9130CFM, CDM	23703
5381-1	20904, Circuit B	AM9130AFM, ADM	23704
5495	30605	AM91L30CF	23705
5496	30601	AM91L30AF	23706
7610	20301, Circuit A	AM91L30CFM, CDM	23707
7611	20302, Circuit A	AM91L30AFM, ADM	23708
7620	20401, Circuit A	AM9140CFC	23709
7621	20402, Circuit A	AM9140AFC	23710
7642	20601, Circuit A	AM9140CFM, CDM	23711
7643	20602, Circuit A	AM9140AFM, ADM	23712
7644	20603, Circuit A	AM91L40CFC	23713
7680	20903, Circuit A	AM91L40AFC	23714
7681	20904, Circuit A	AM91L40CFM, CDM	23715
7684	20901, Circuit A	AM91L40AFM, ADM	23716
7685	20902, Circuit A	HYPROM 512	00905
54164	30602	IM5603A	20201
54165	30606	IM5623	20202
54170	01801	MCM5303	02804
54174	01701	MCM5304	02803
54175	01702	MCM6604A	23602, 23604
54194	30607	MCM6605	23601, 23603
54195	00901	MKB4096	23602, 23604
93415	23101	MM5280	23505, 23506
93417	20301, Circuit D		

22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

DRAWING PREFIX ASSIGNMENTS

LOGIC/BLOCK DRAWINGS

- A: RAMs
- B: ROMs
- C: Character Generators
- E: Code Converters
- F: Shift Registers
- Z: Miscellaneous

OUTLINE DRAWINGS

- CH: Chip
- CY: TO-5 type (non-JEDEC)
- FL: Flat package (non-JEDEC)
- ML: Molded or encapsulated package not included in other categories
- MQ: Standard JEDEC outline
- PL: Printed circuit board
- TO: Standard JEDEC outline
- ⊠: Package style only shown; no dimensions.

NOTES

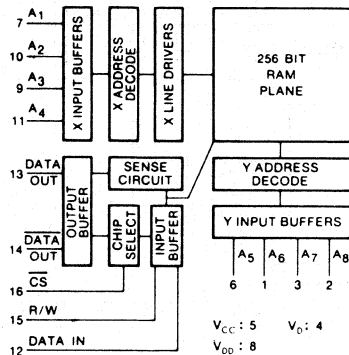
These outline drawings are intended as a guide for the user. They should not be used for construction purposes without first checking with the appropriate manufacturer.

These drawings are referenced in the Technical Sections of this D.A.T.A. BOOK in accordance with information supplied by the manufacturers.

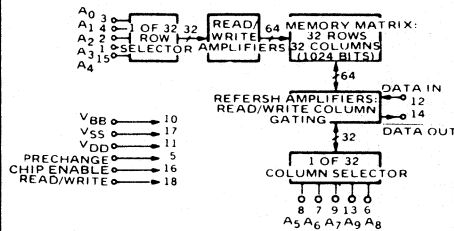
The DO and TO drawings have been reproduced from JEDEC Registration Data Files with the permission of the National Electrical Manufacturer's Association - Electronic Industries Association. JEDEC designations are assigned only to outlines submitted by the JC-11 Committee on Mechanical Standardization. The procedure of assigning and announcing the JEDEC designation constitutes registration.

All dimensions are in inches except where noted.

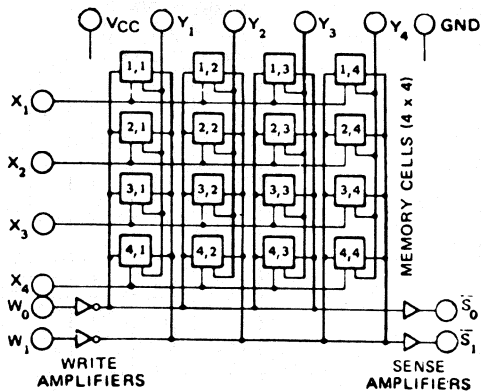
A1



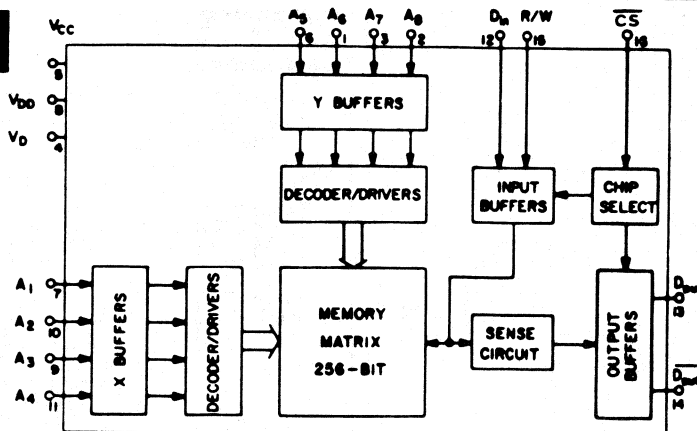
A2



A27



A36

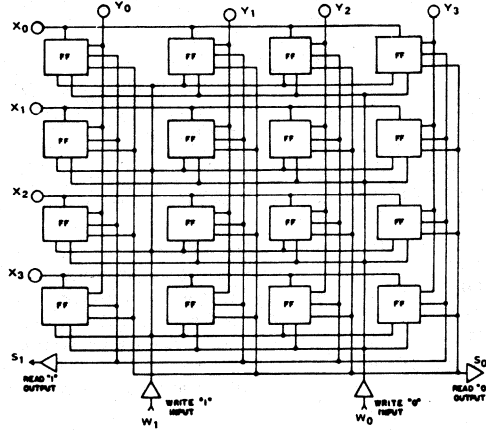


22. LOGIC/BLOCK DRAWINGS

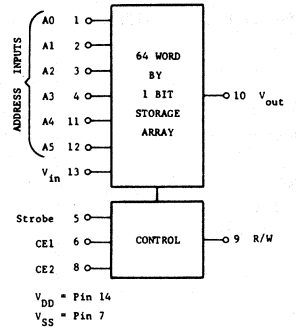
IN DRAWING NUMBER SEQUENCE

A60

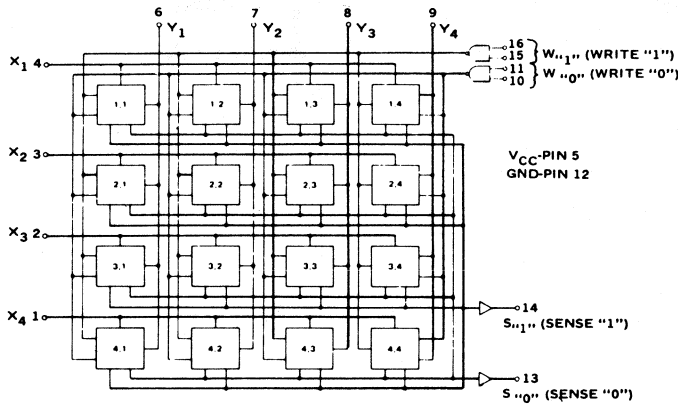
		X			Y			S		W
A60	0	1	2	3	0	1	2	3	0	1
A60a	1	2	3	4	13	12	11	10	8	6
	9	8	7	6	10	11	12	13	14	1
										4
										5



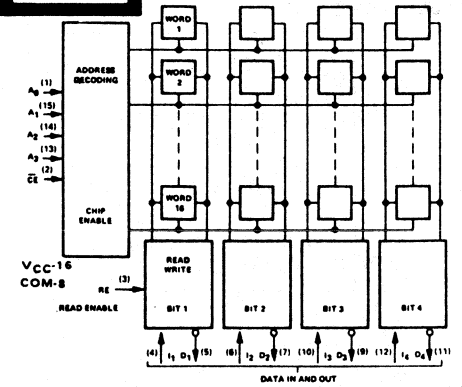
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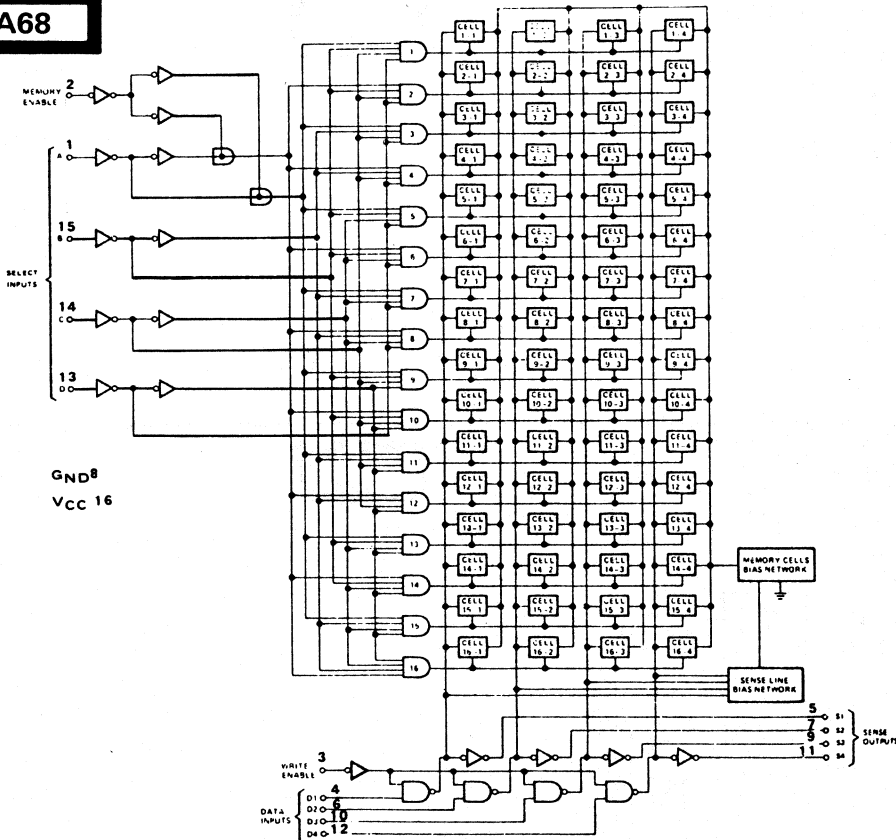
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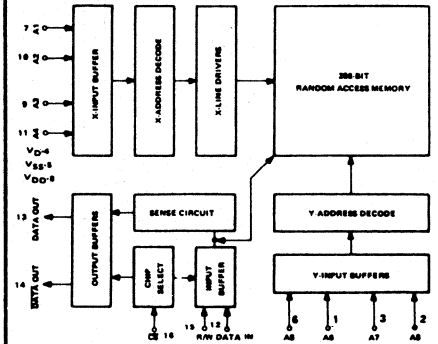
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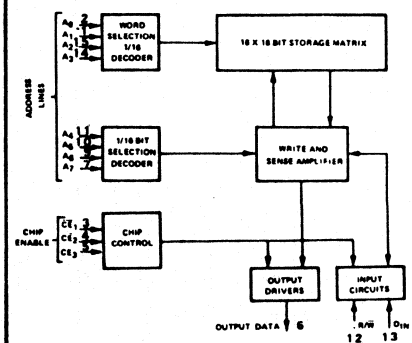
A68



A74

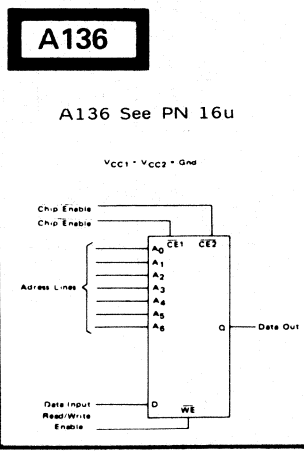
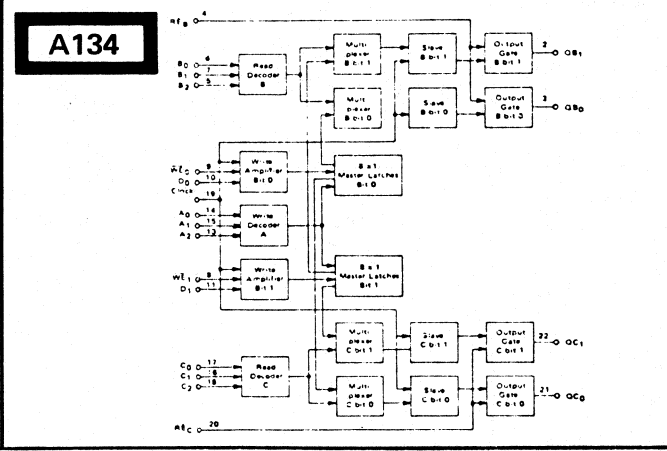
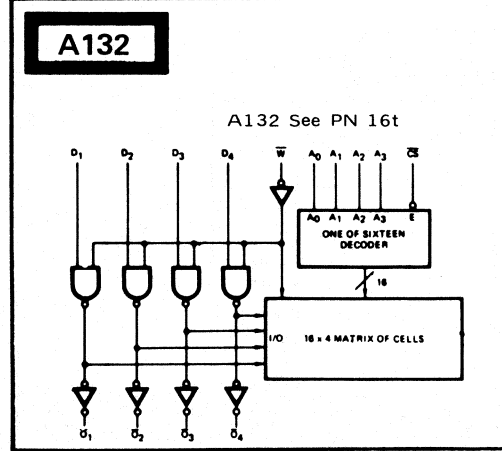
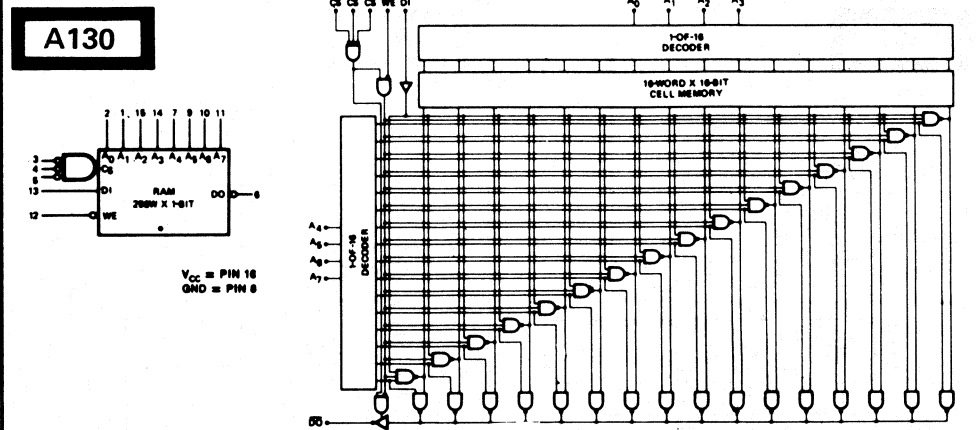
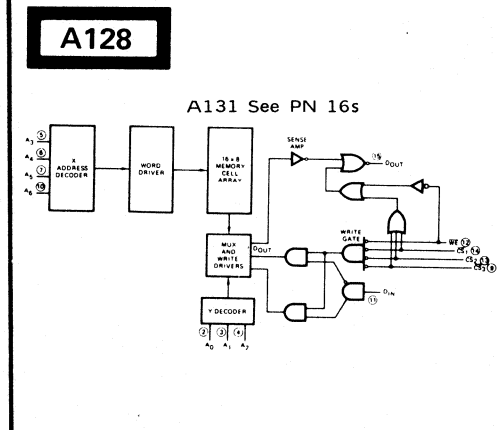
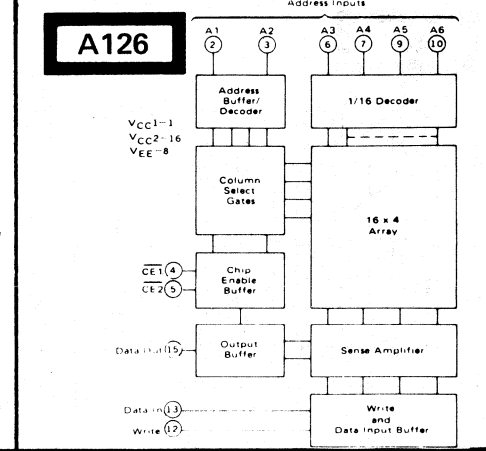
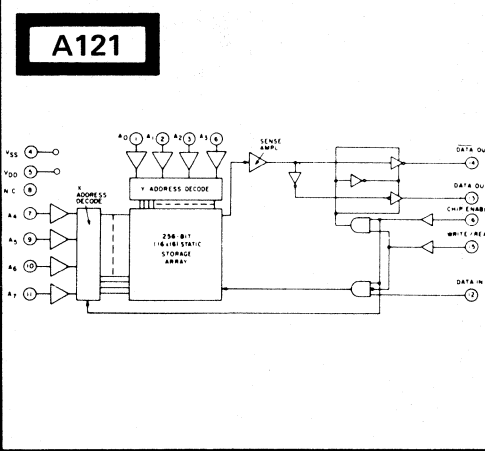
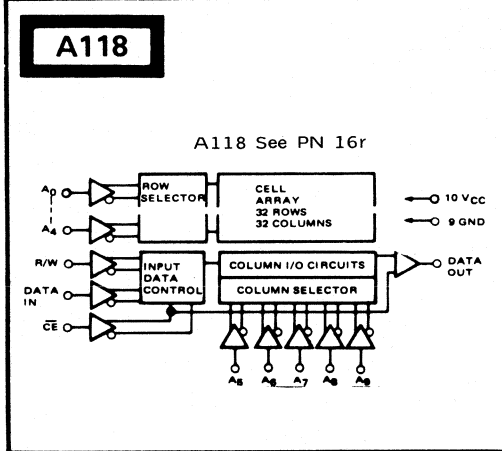
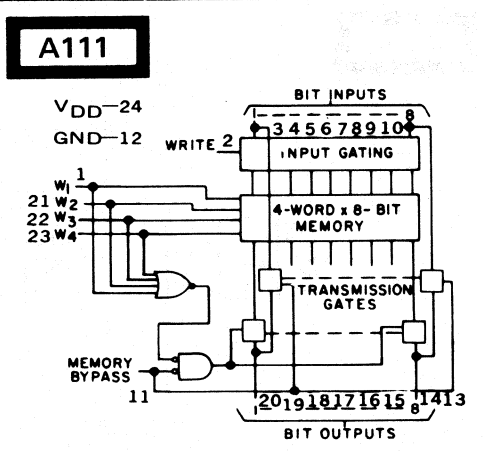
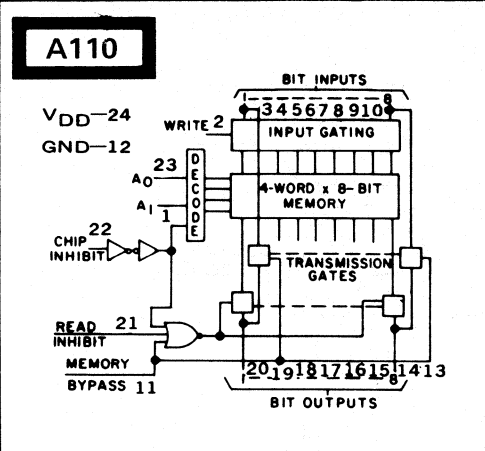
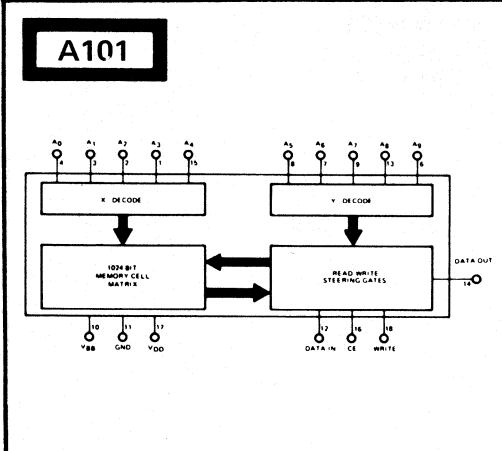


A76



22. LOGIC/BLOCK DRAWINGS

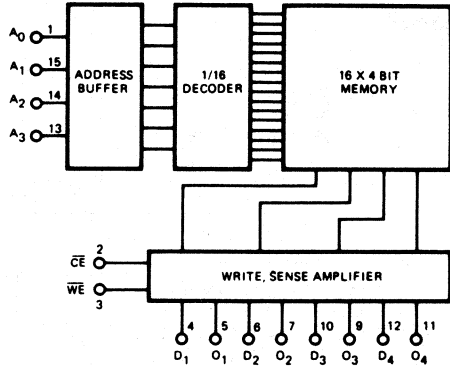
IN DRAWING NUMBER SEQUENCE



22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

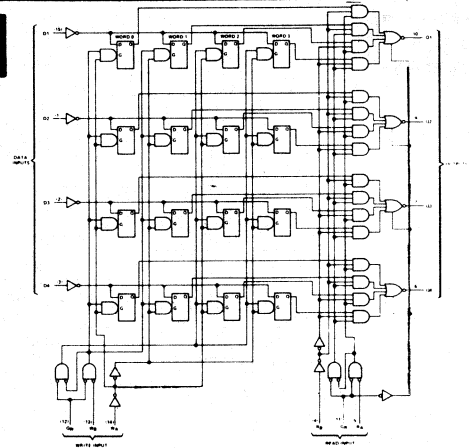
A155



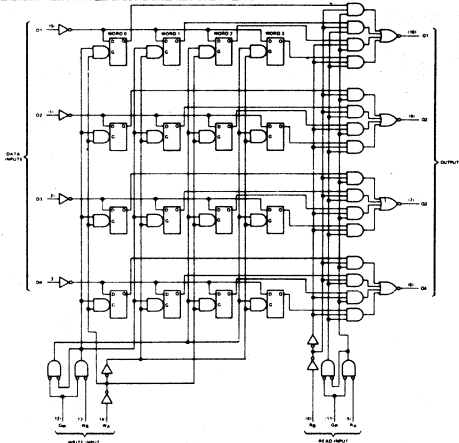
VCC/VDD—PIN 16
GND/VSS—PIN 8

A155 See PN 16d

A156

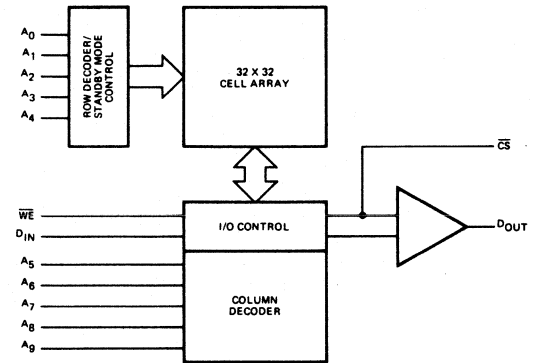


A157



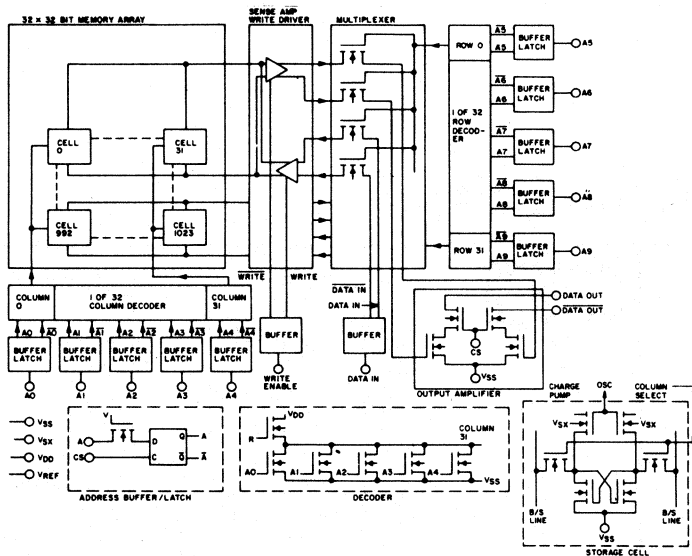
A159

A159 See PN 16x



A162

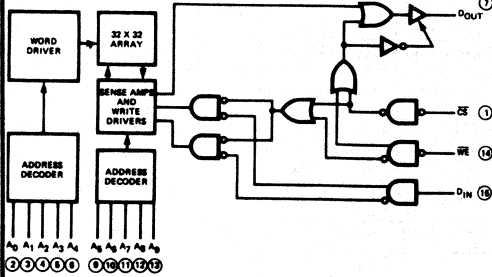
A162 See PN 22a



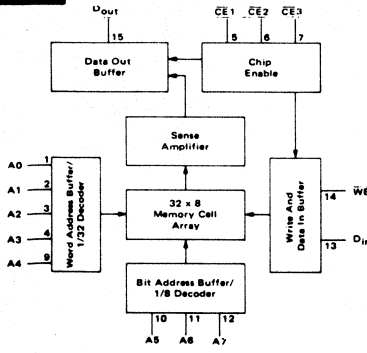
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

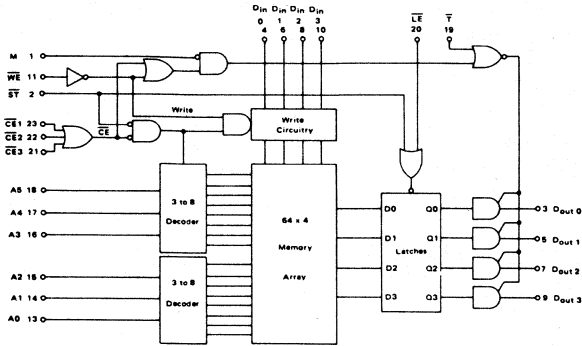
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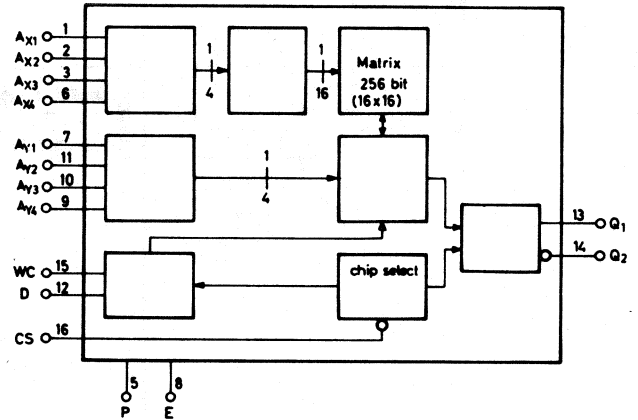
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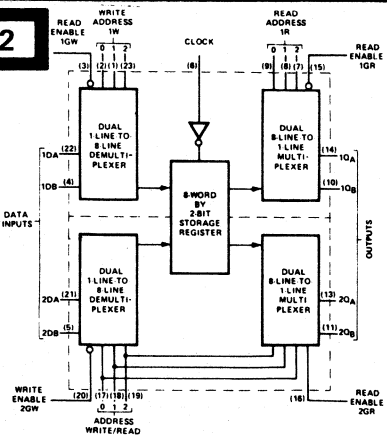
A166



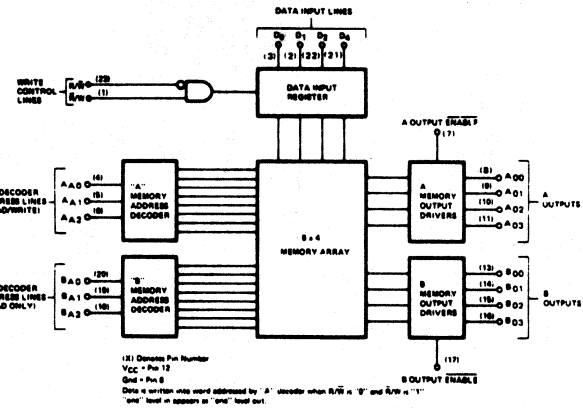
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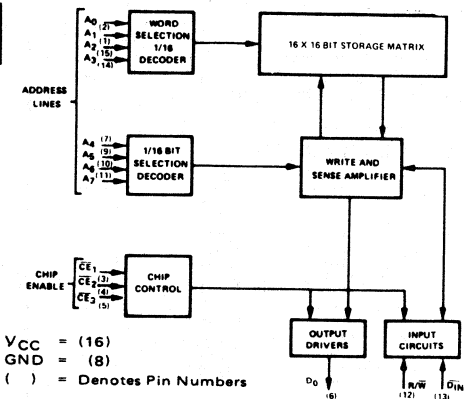
A172



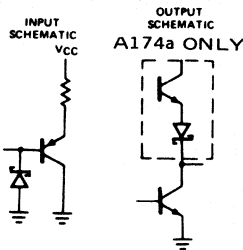
A173



A174



VCC = (16)
GND = (8)
() = Denotes Pin Numbers



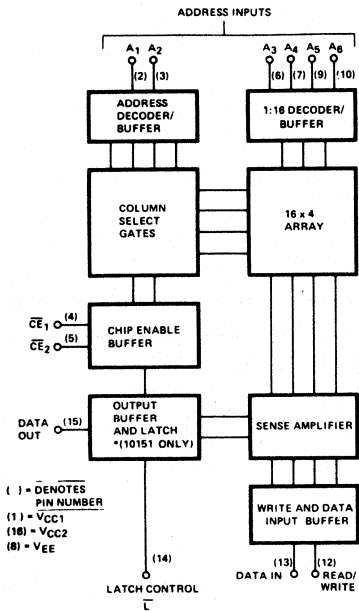
"ONE" LEVEL IN ON DATA INPUT APPEARS AS "ZERO" LEVEL OUT. Chip is enabled when $\overline{CE}_1 = \overline{CE}_2 = \overline{CE}_3 = "0"$

A174 See PN 16y

22. LOGIC/BLOCK DRAWINGS

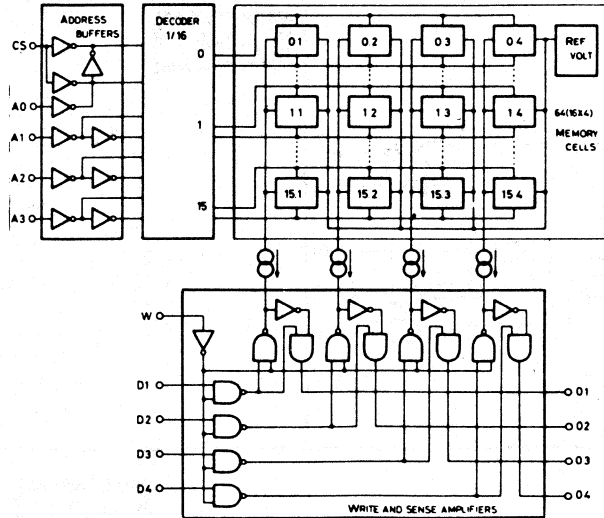
IN DRAWING NUMBER SEQUENCE

A175

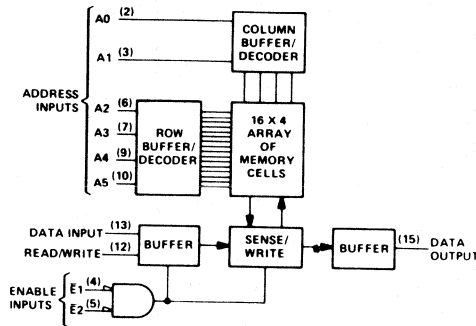


A175a - PIN 14 N.C.

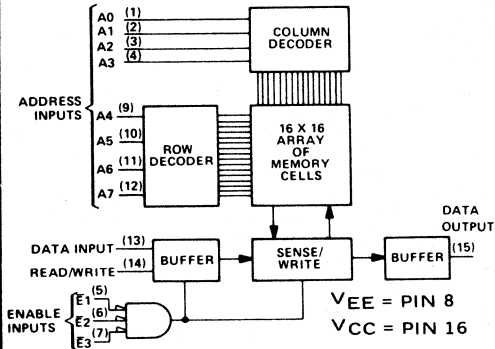
A176



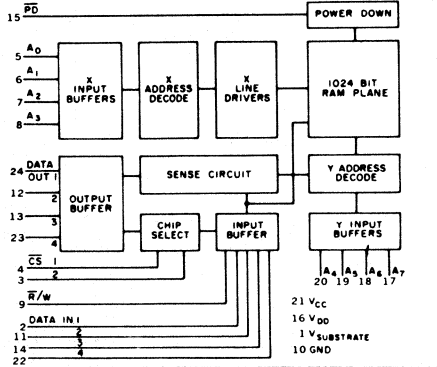
A177



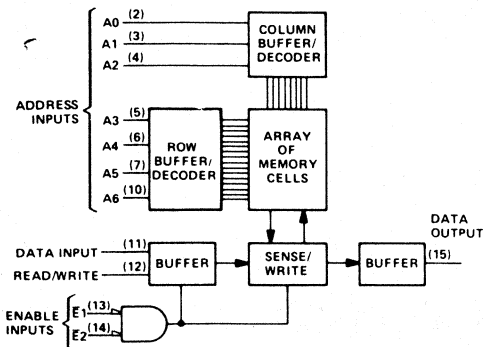
A178



A181

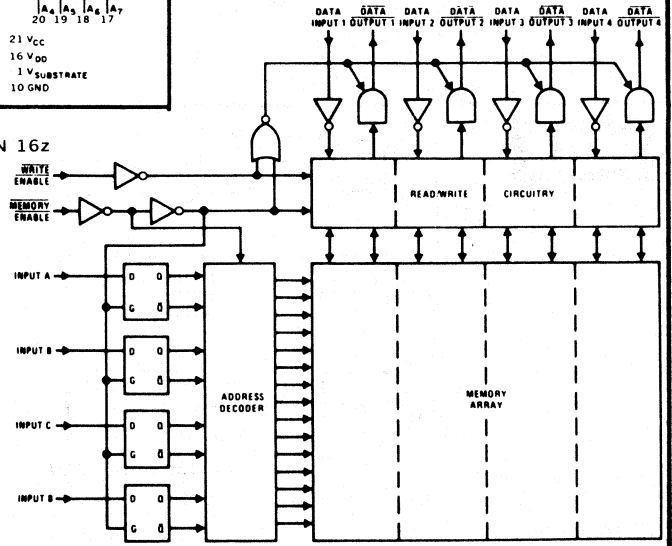


A180



A182

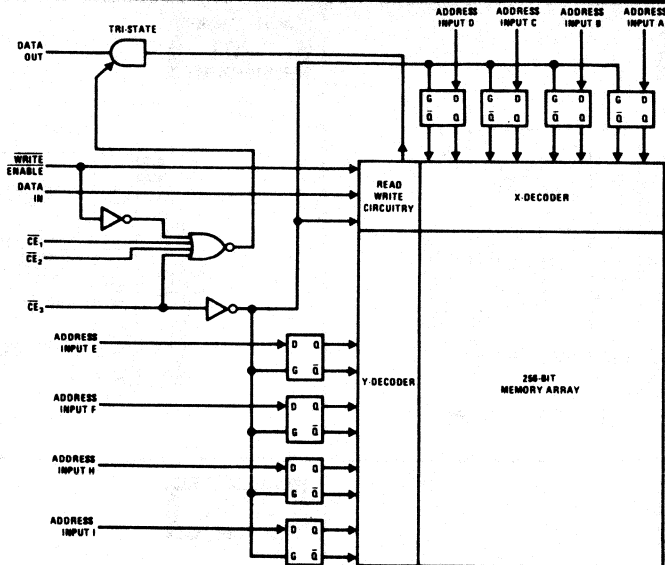
A182 See PN 16z



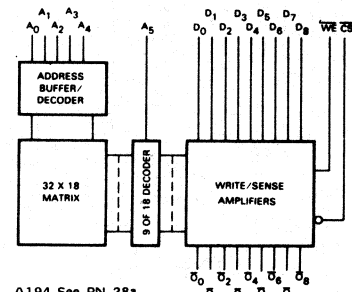
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

A183

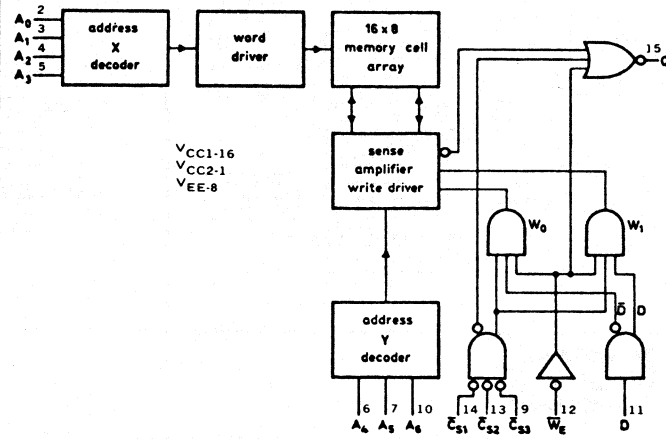


A194

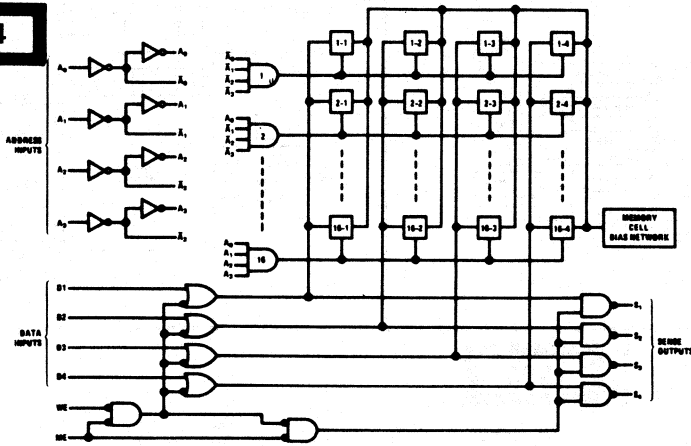


A194 See PN 28a

A186

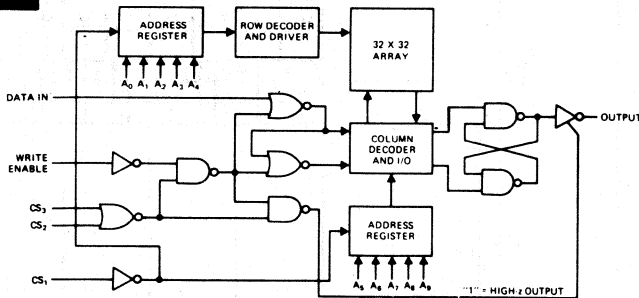


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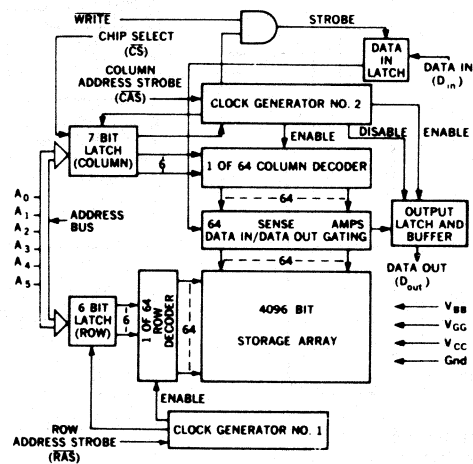
A188

A188a FUNCTIONS AS IF CS₁, CS₂, AND CS₃ WERE TIED TOGETHER.

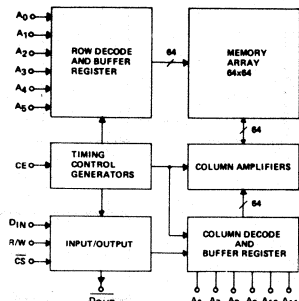


A191

A191 See PN 16ac



A189



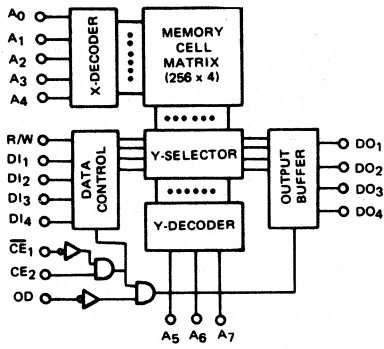
A189 SEE PN 22b
A189a SEE PN 22dk

		PIN NUMBERS																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A189	V _{BB}	A9	A10	A11	CS	D _{IN}	D _{OUT}	A0	A1	A2	V _{DD}	R/W	A3	A4	A5	NC	CE	V _{GG}	A6	A7	A8	V _{SS}	
A189a	V _{BB}	A9	A10	A11	CS	D _{IN}	D _{OUT}	A0	A1	A2	V _{CC}	WE	A3	A4	A5	NC	CE	V _{DD}	A6	A7	A8	V _{SS}	

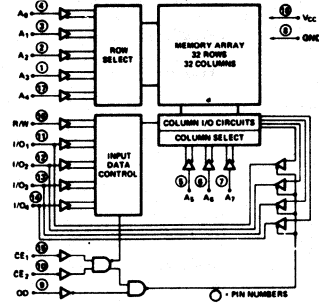
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

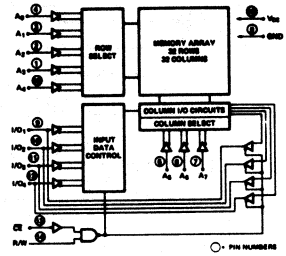
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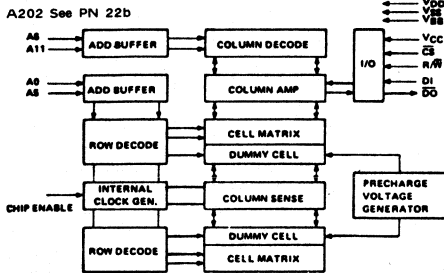
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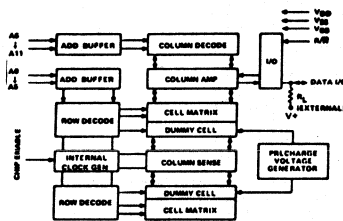
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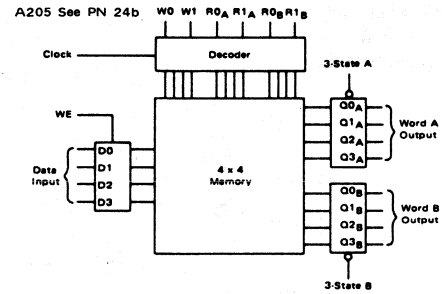
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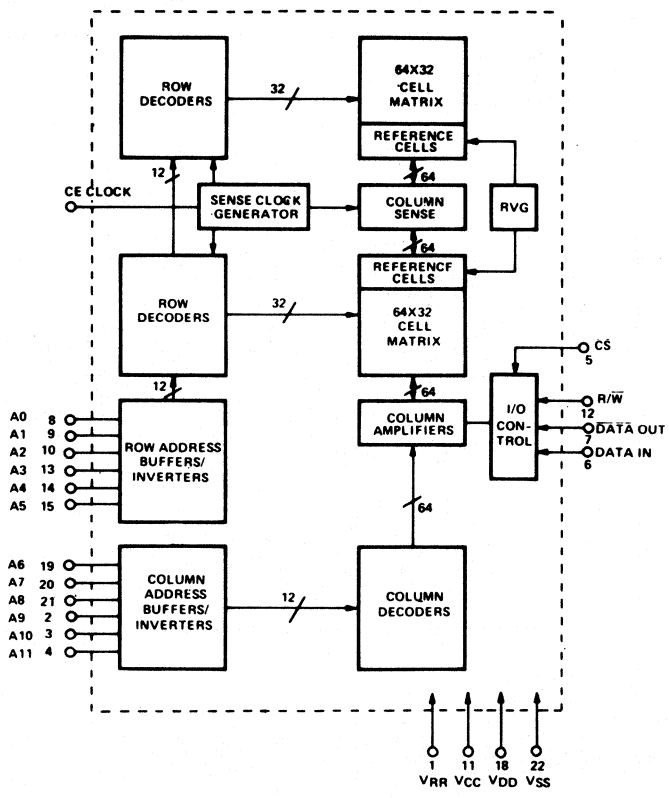
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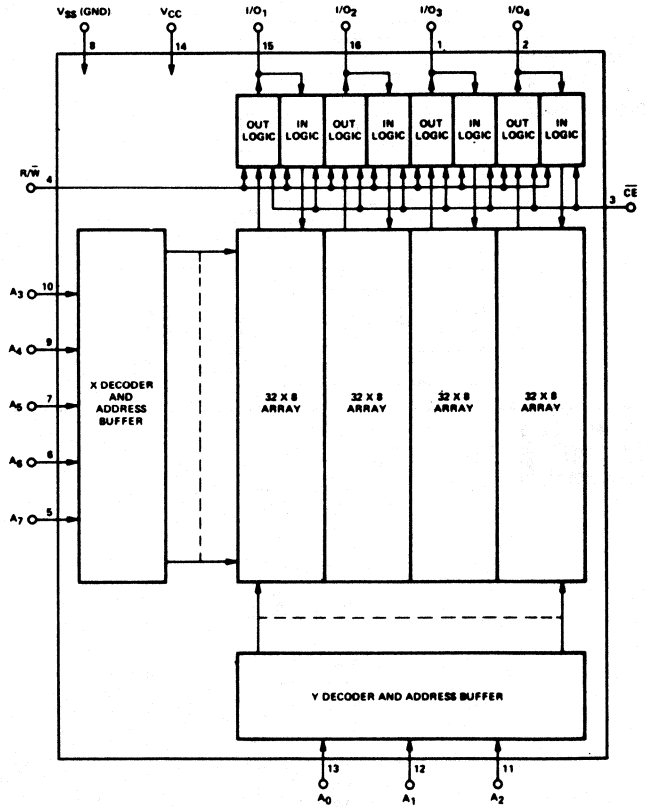
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A208



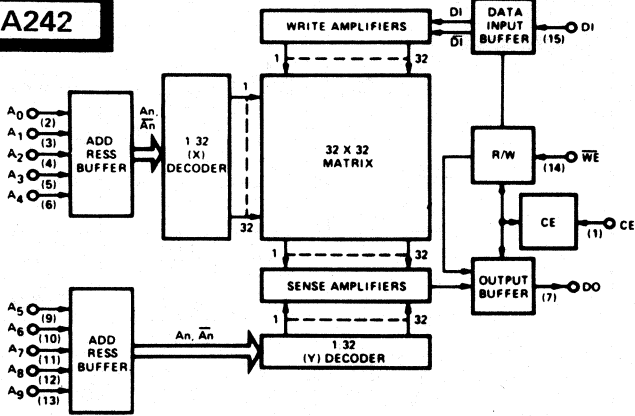
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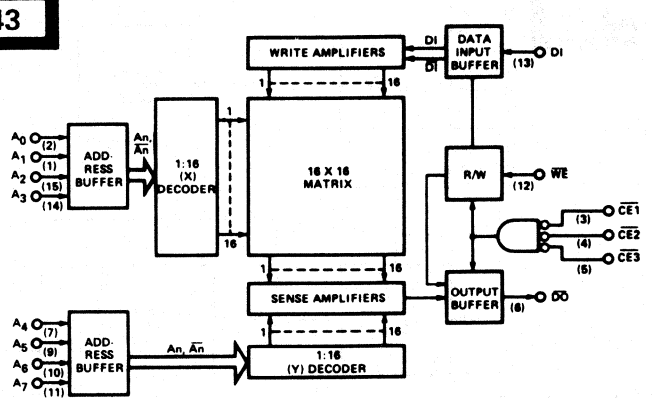
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

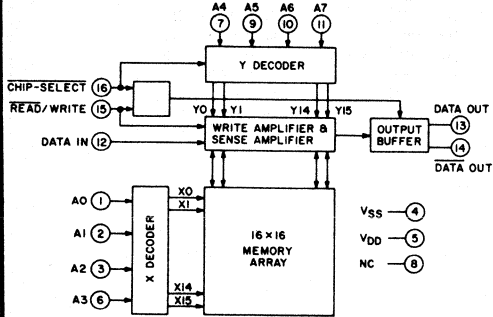
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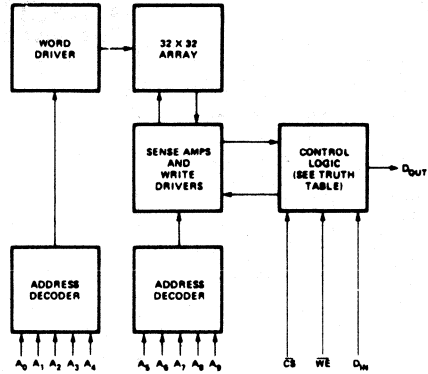
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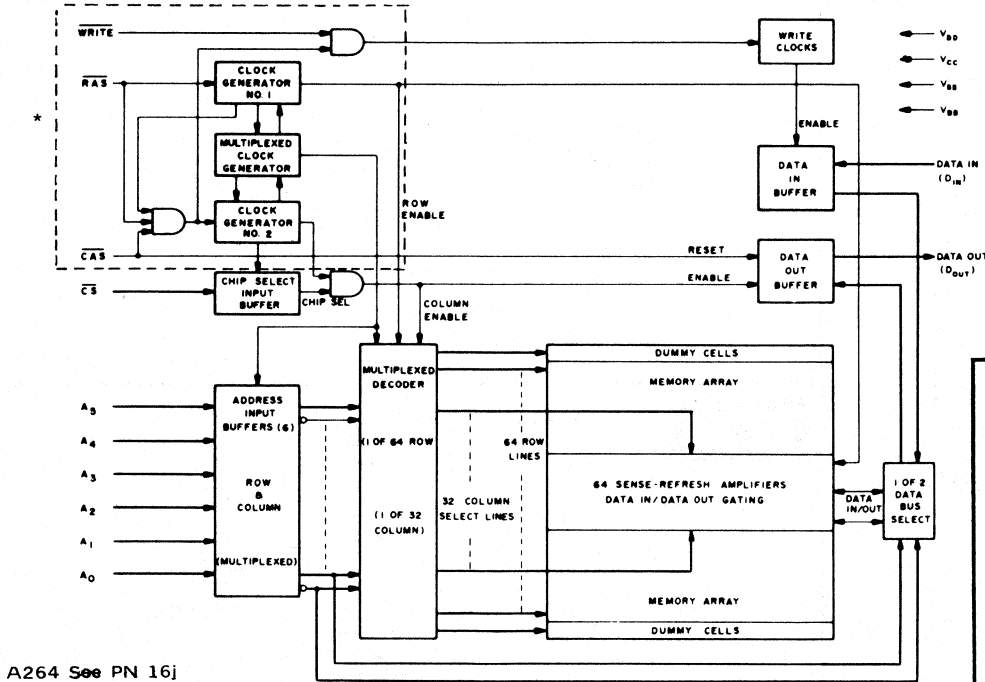
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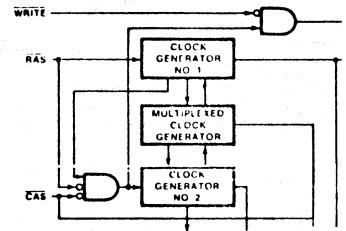
A256



A264



A264 See PN 16j

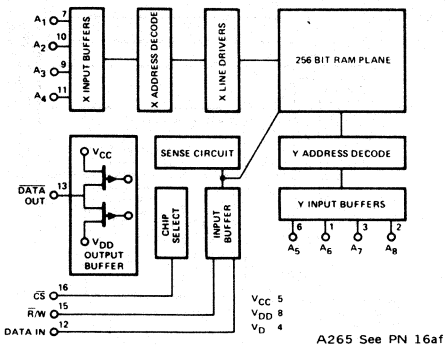


* REPLACE SECTION IN DOTTED LINES FOR A264a.

22. LOGIC/BLOCK DRAWINGS

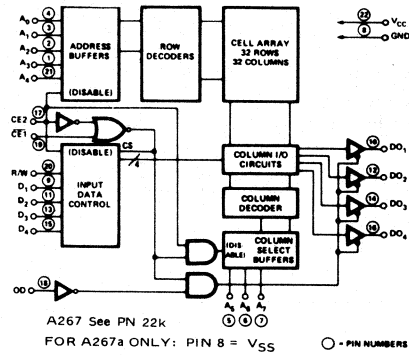
IN DRAWING NUMBER SEQUENCE

A265



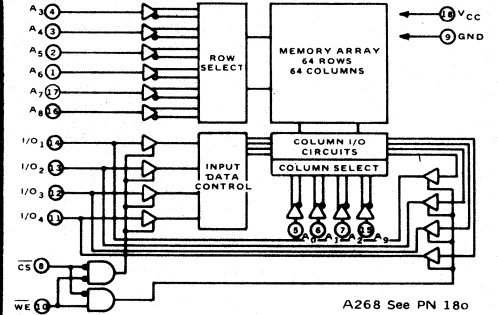
A265 See PN 16af

A267



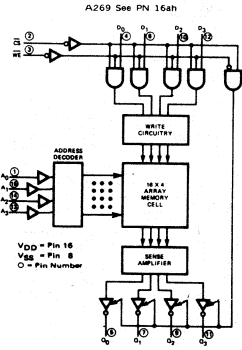
A267 See PN 22k
FOR A267a ONLY: PIN 8 = V_{SS} ○ - PIN NUMBERS

A268



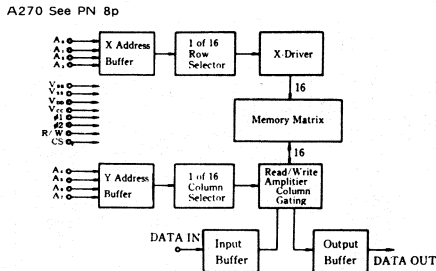
A268 See PN 18o

A269



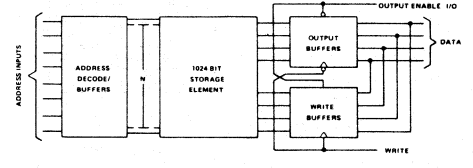
A269 See PN 16ah

A270



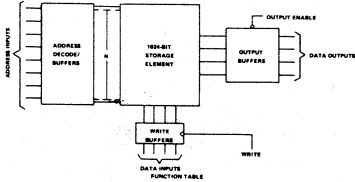
A270 See PN 8p

A277



A277 See PN 16ah

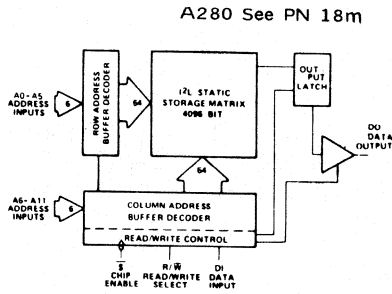
A279



A279 See PN 20a

A279 See PN 20a

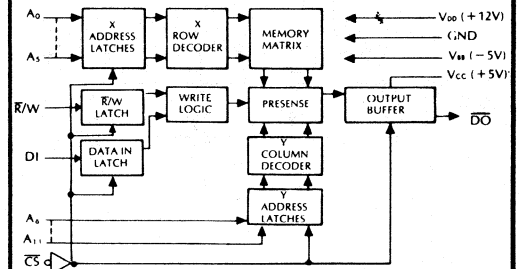
A280



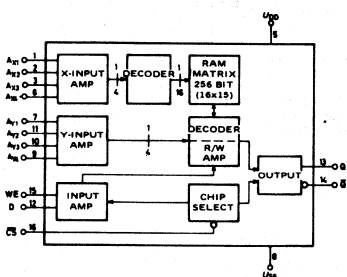
A280 See PN 18m

A284

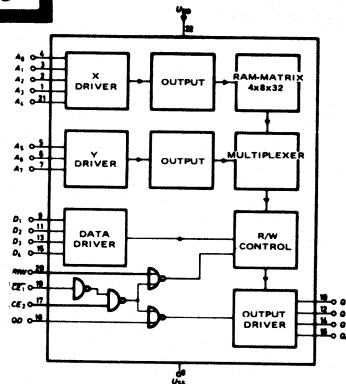
A284a See PN 22p
A284b See PN 22q



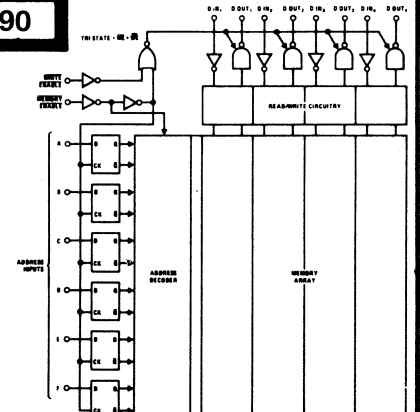
A288



A289



A290

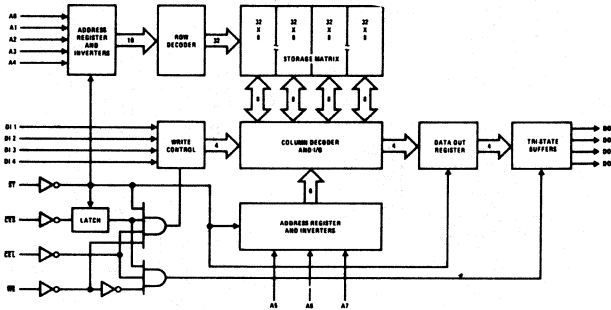


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

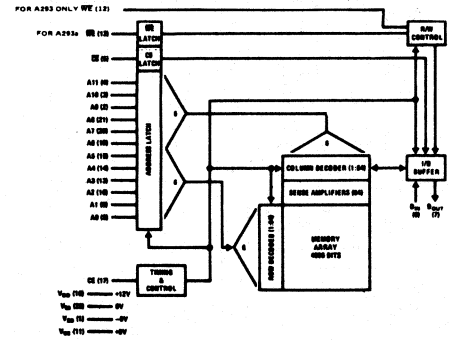
A291

A291 See PN 22i
A291a See PN 22t

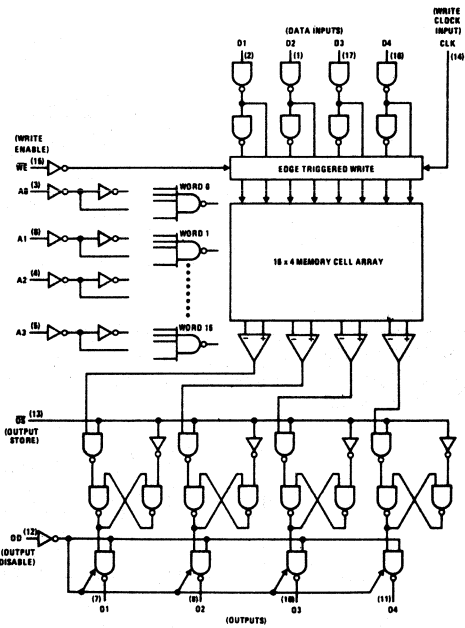


A293

A293 See PN 22m

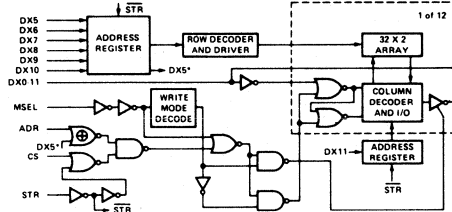


A294



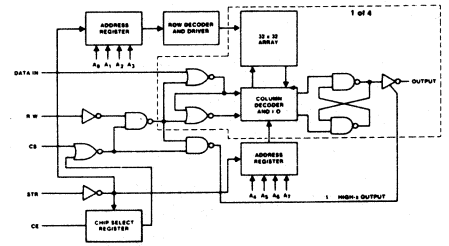
A296

A296 See PN 18u



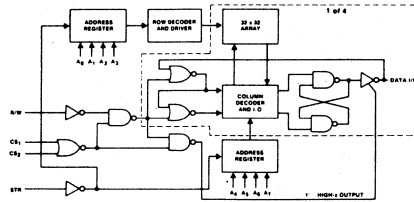
A297

A297 See PN 22u



A298

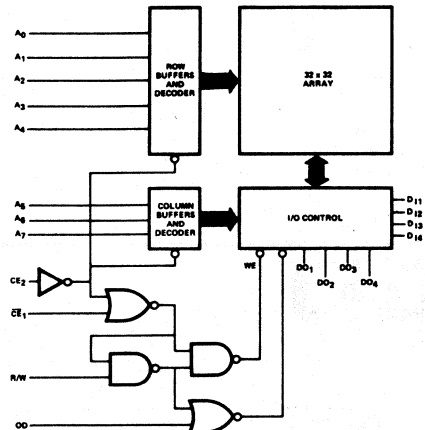
A298 See PN 18v



A300

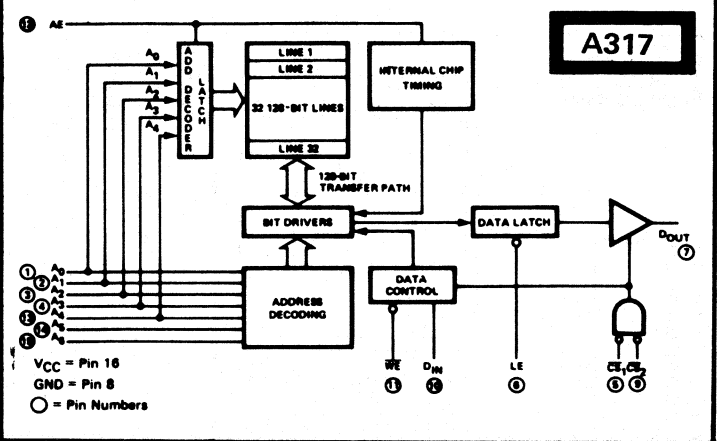
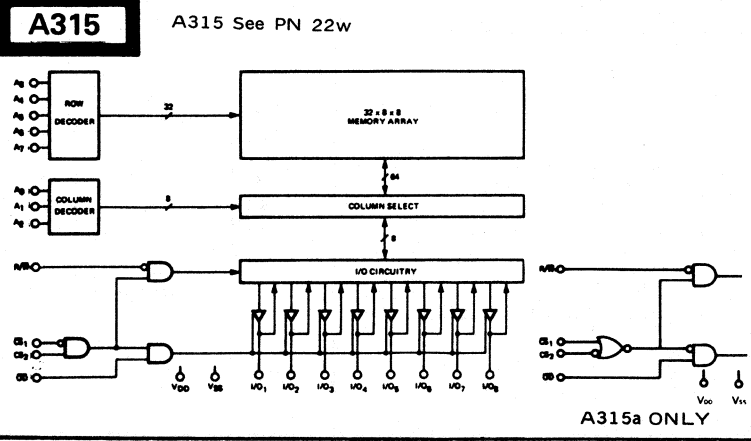
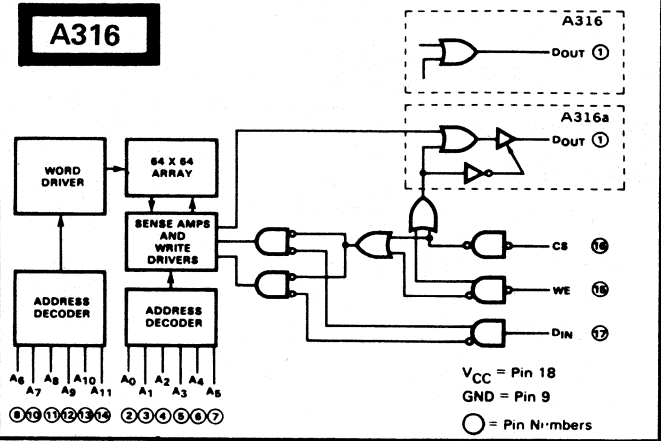
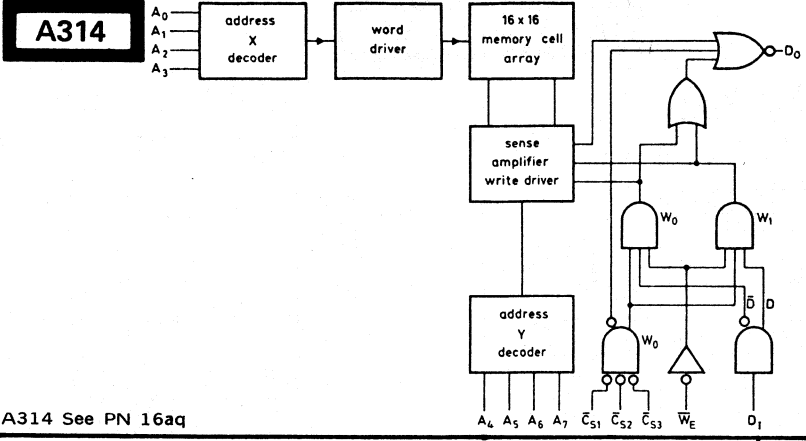
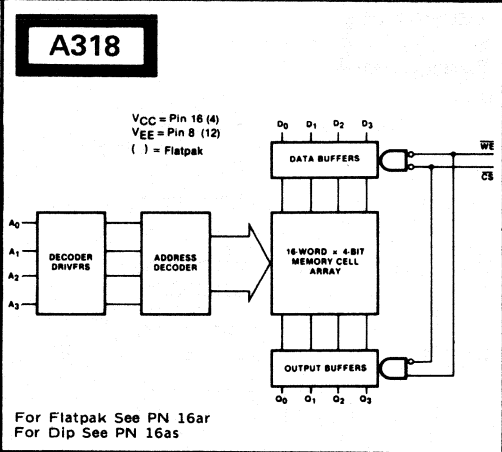
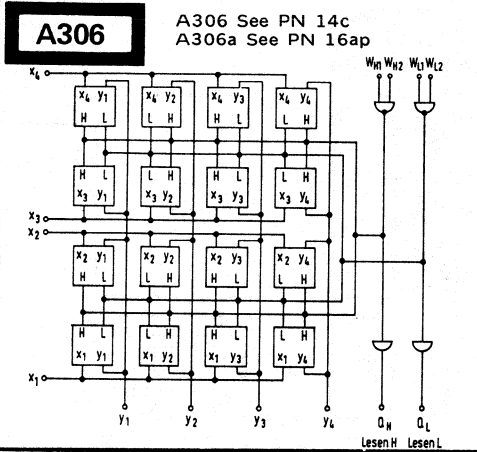
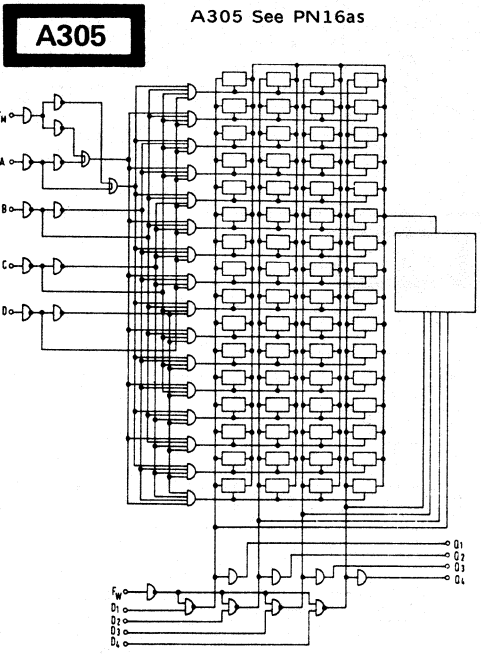
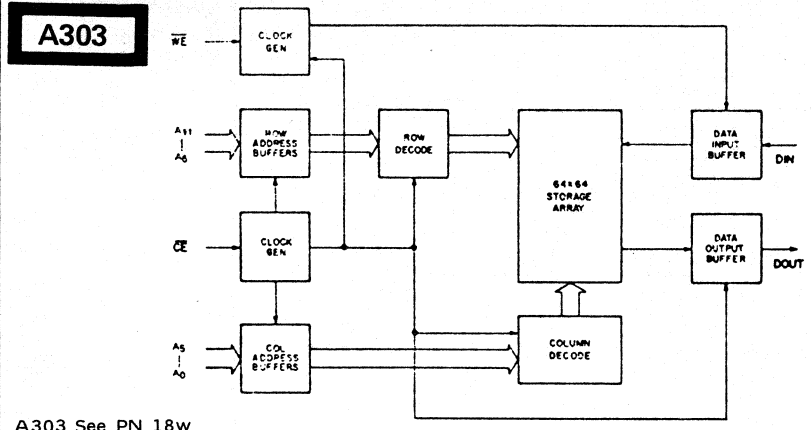
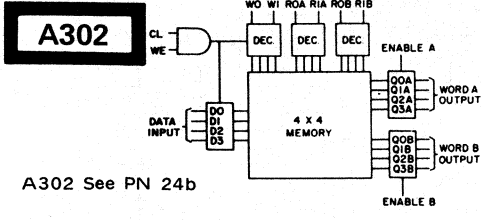
A300 See PN 22k

OD - OUTPUT DISABLE
WE - WRITE ENABLE



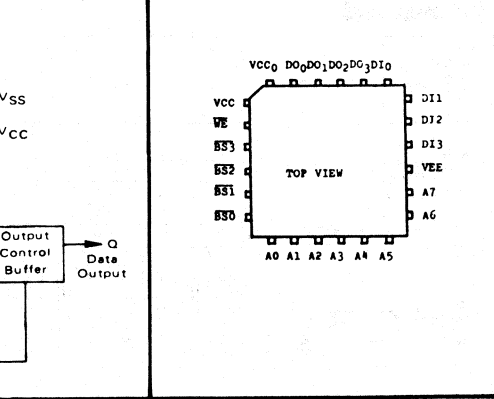
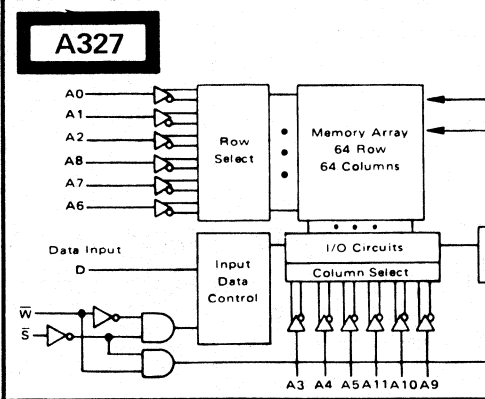
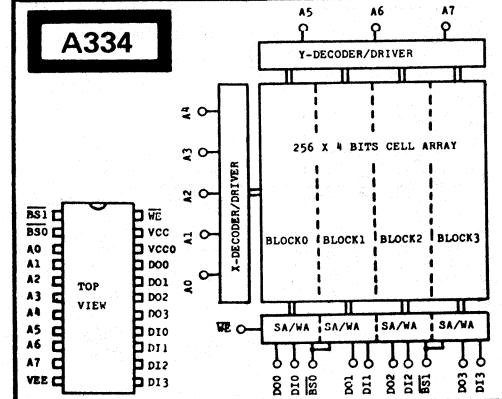
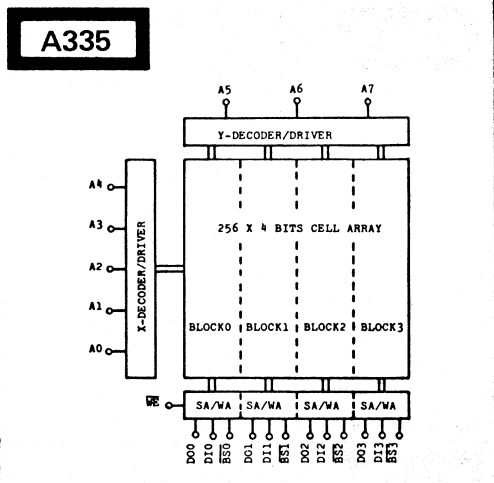
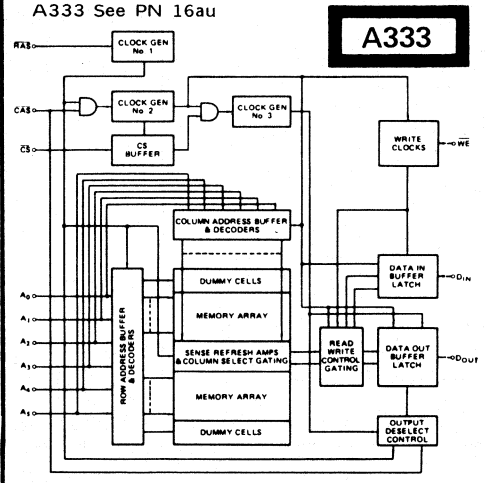
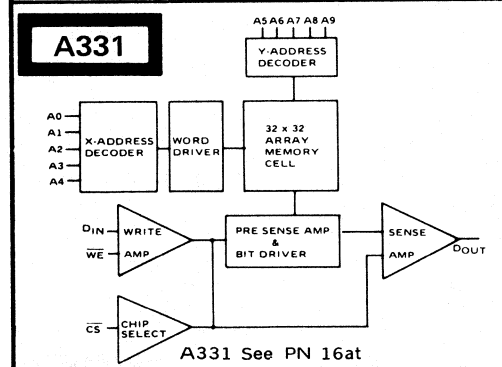
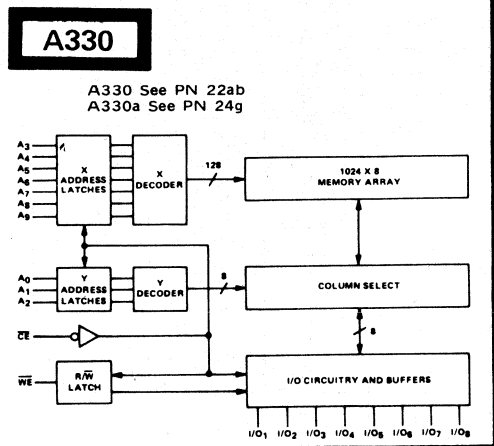
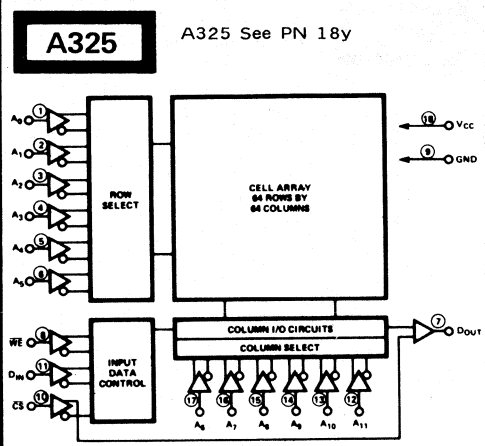
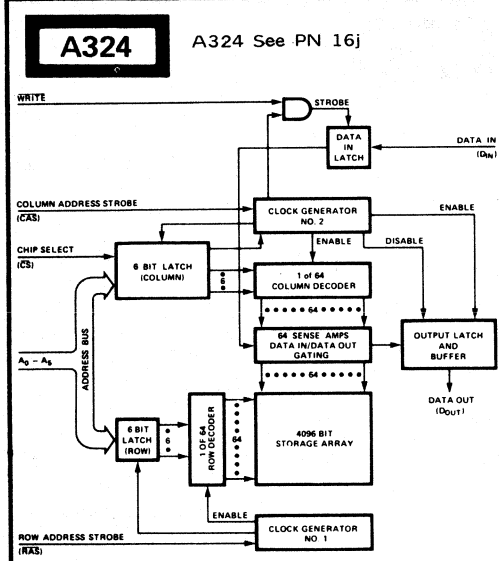
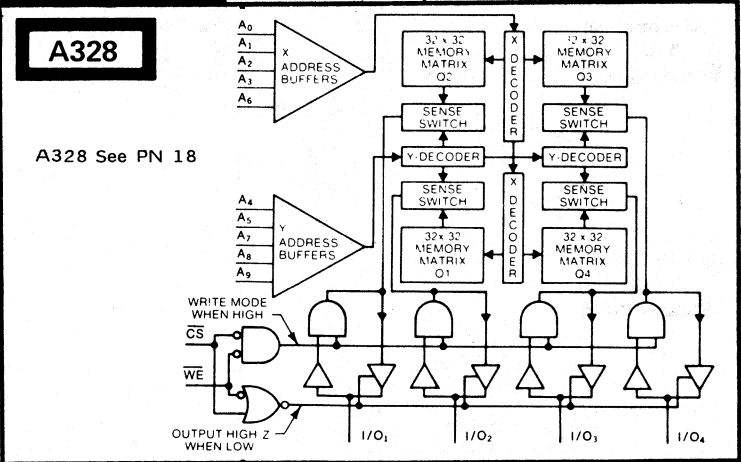
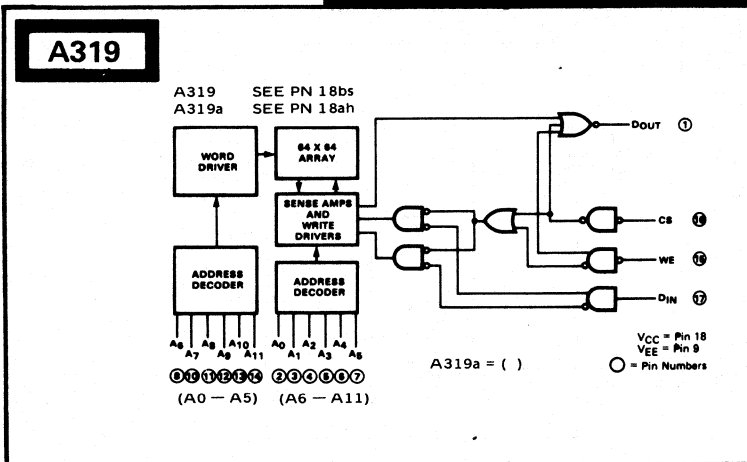
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE



22. LOGIC/BLOCK DRAWINGS

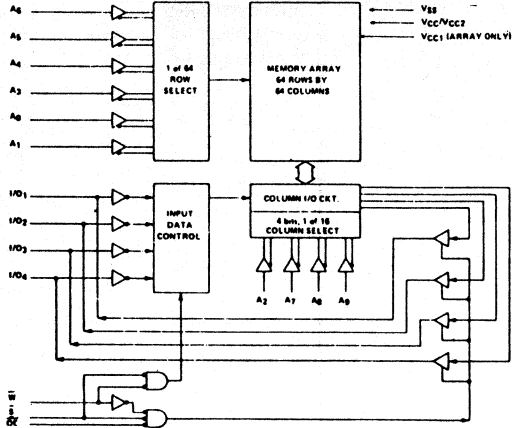
IN DRAWING NUMBER SEQUENCE



22. LOGIC/BLOCK DRAWINGS

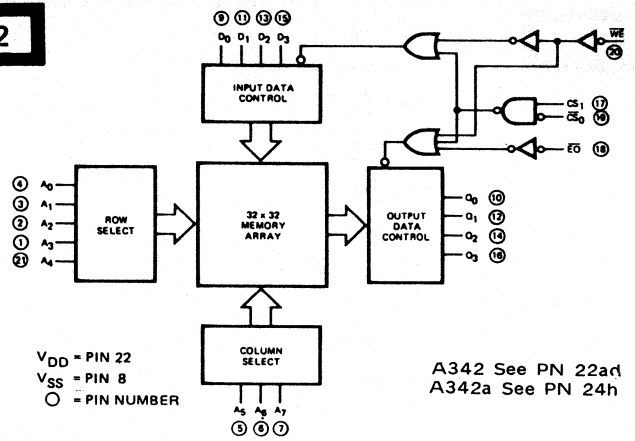
IN DRAWING NUMBER SEQUENCE

A339



A339 See PN 18aa
A339a See PN 20t

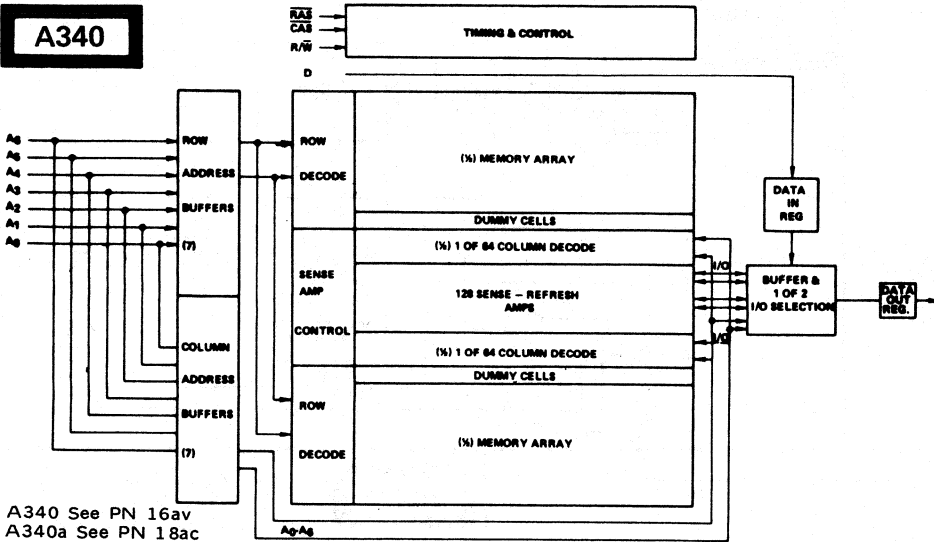
A342



VDD = PIN 22
VSS = PIN 8
O = PIN NUMBER

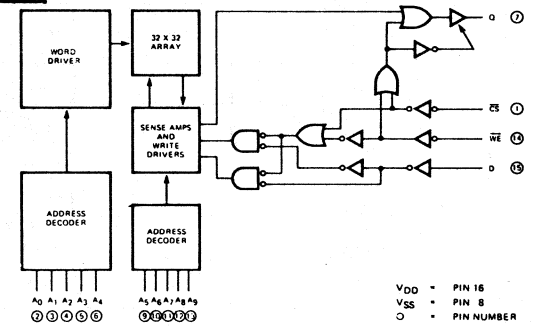
A342 See PN 22a1
A342a See PN 24h

A340



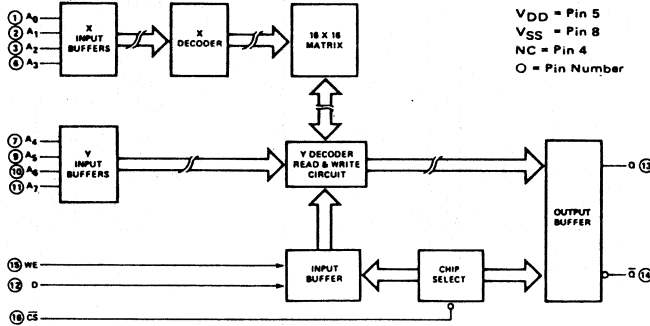
A340 See PN 16av
A340a See PN 18ac

A344



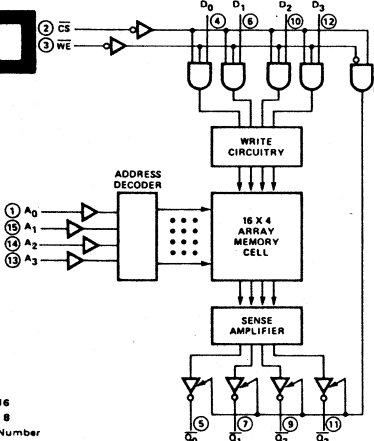
VDD = PIN 16
VSS = PIN 8
O = PIN NUMBER

A341



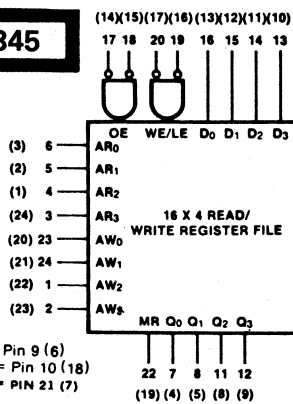
VDD = Pin 5
VSS = Pin 8
NC = Pin 4
O = Pin Number

A343



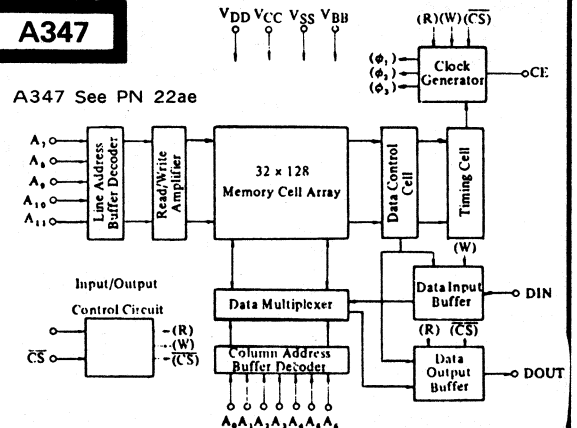
VDD = Pin 16
VSS = Pin 8
O = Pin Number

A345



VCC = Pin 9 (6)
VCCA = Pin 10 (18)
VEE = PIN 21 (7)
A345 See PN 24j
A345a See PN 24j

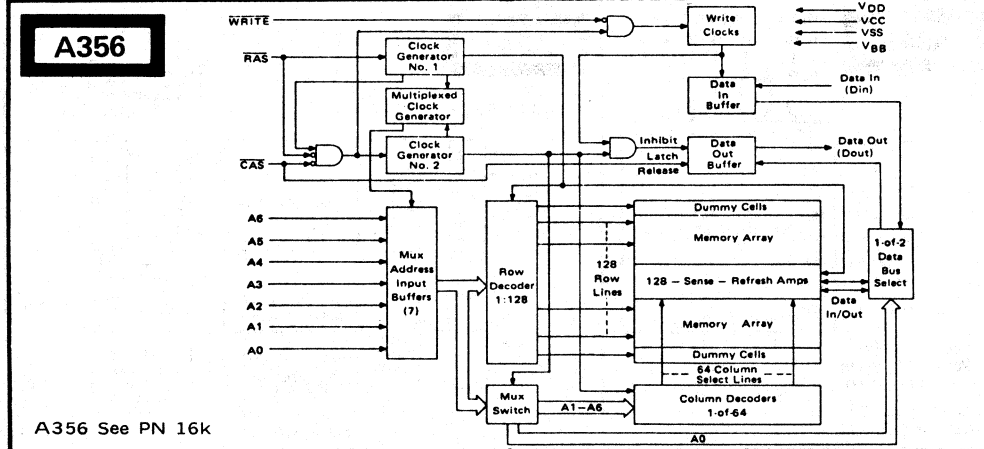
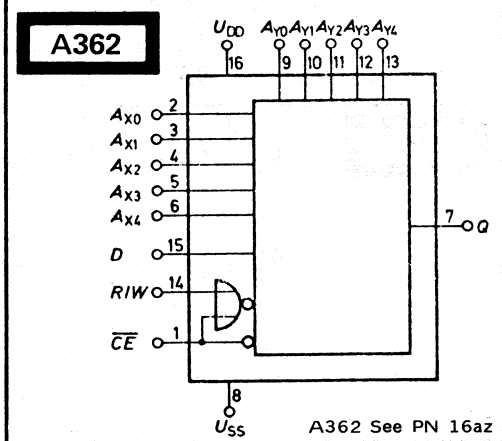
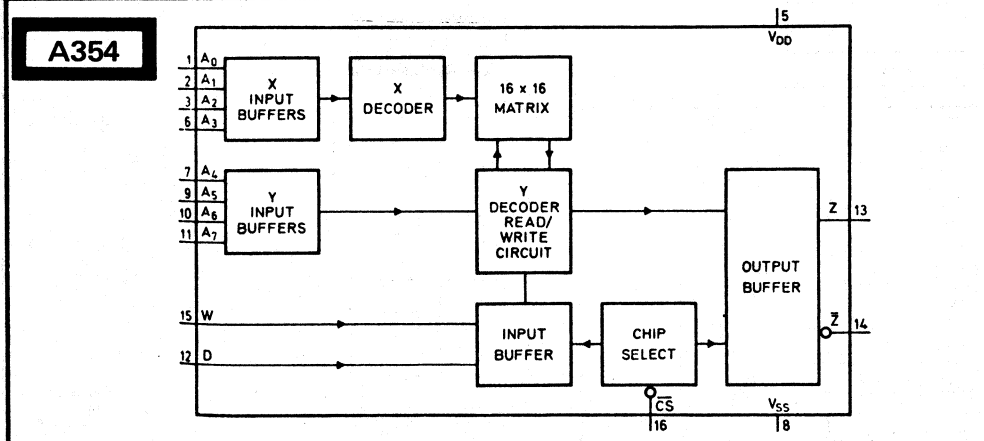
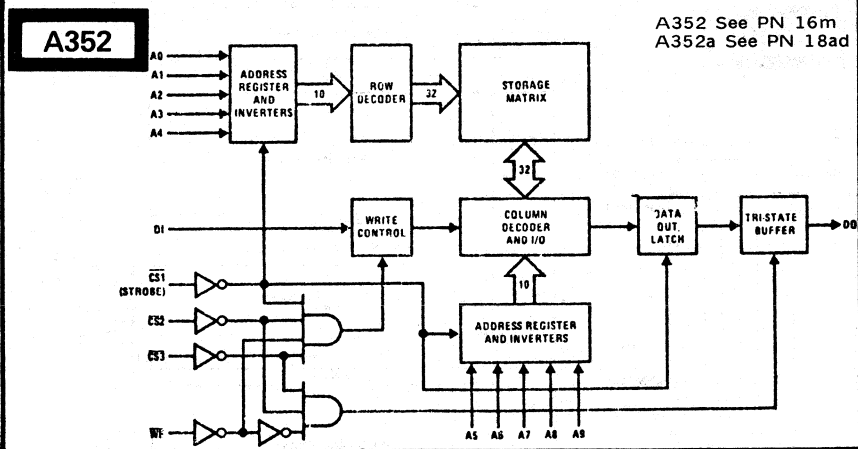
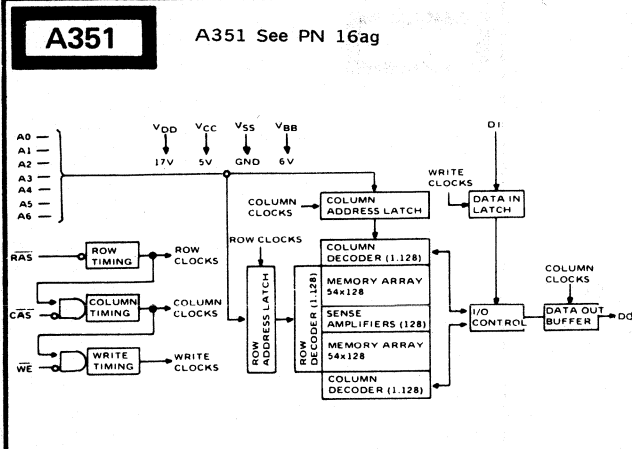
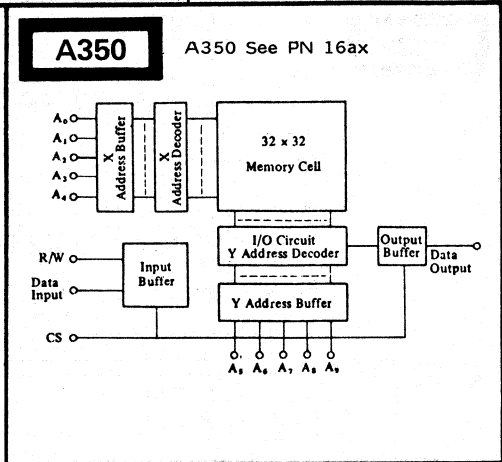
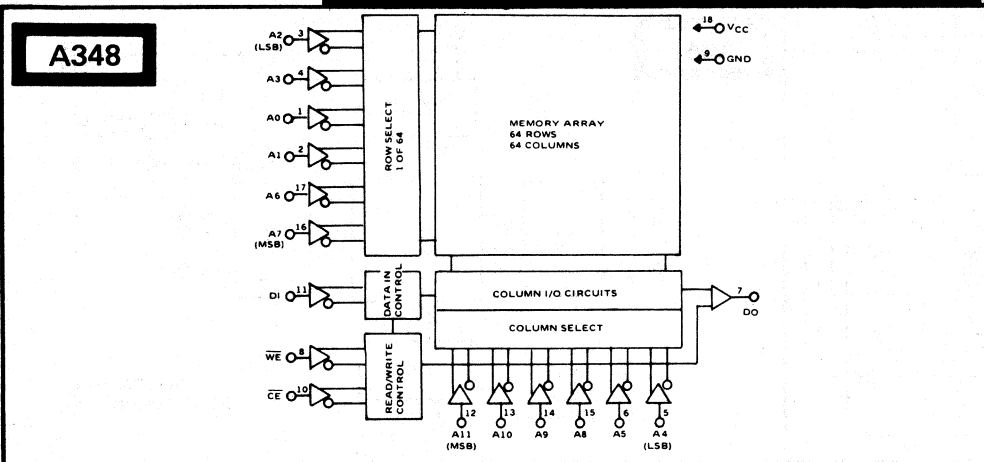
A347



A347 See PN 22ae

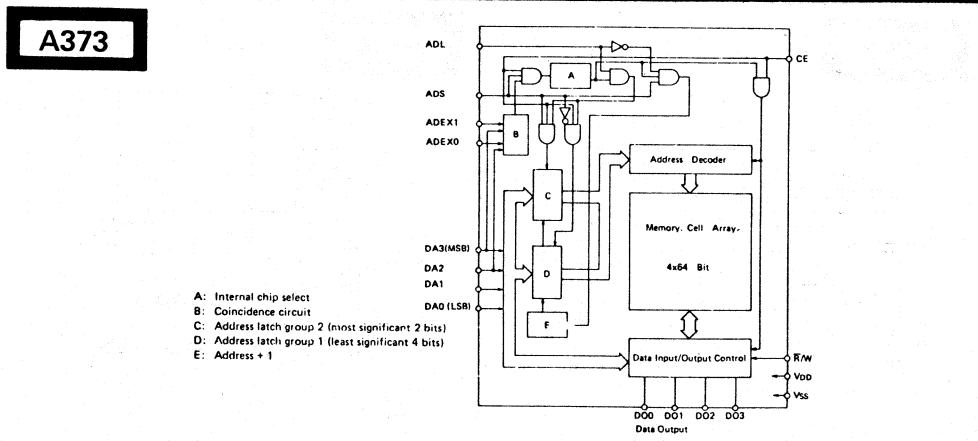
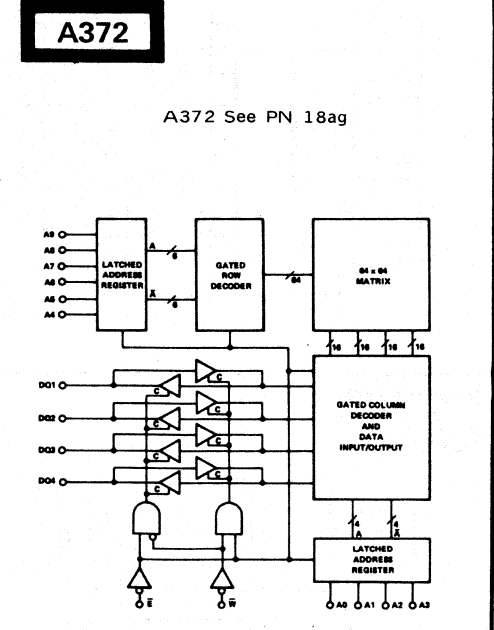
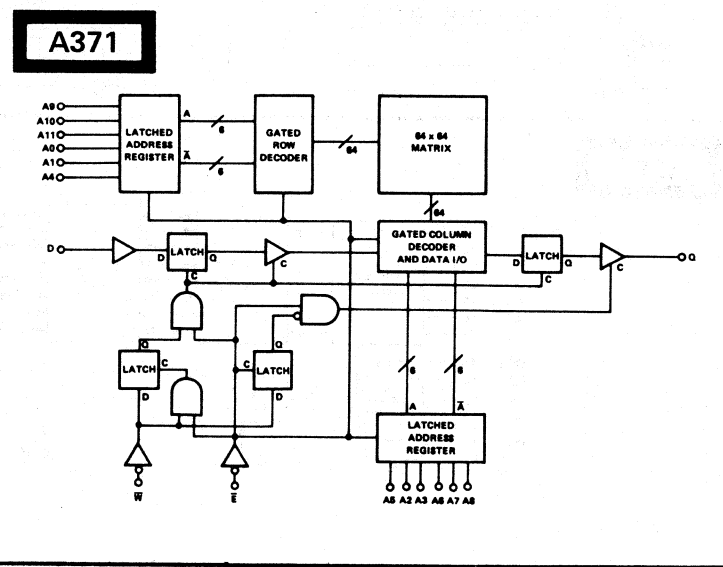
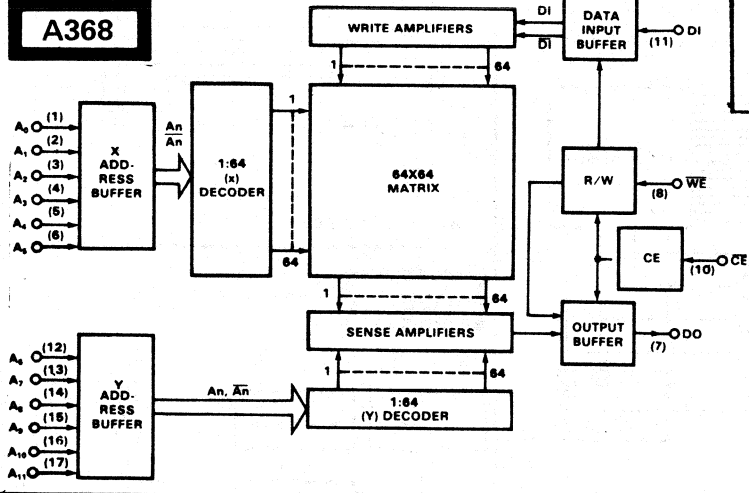
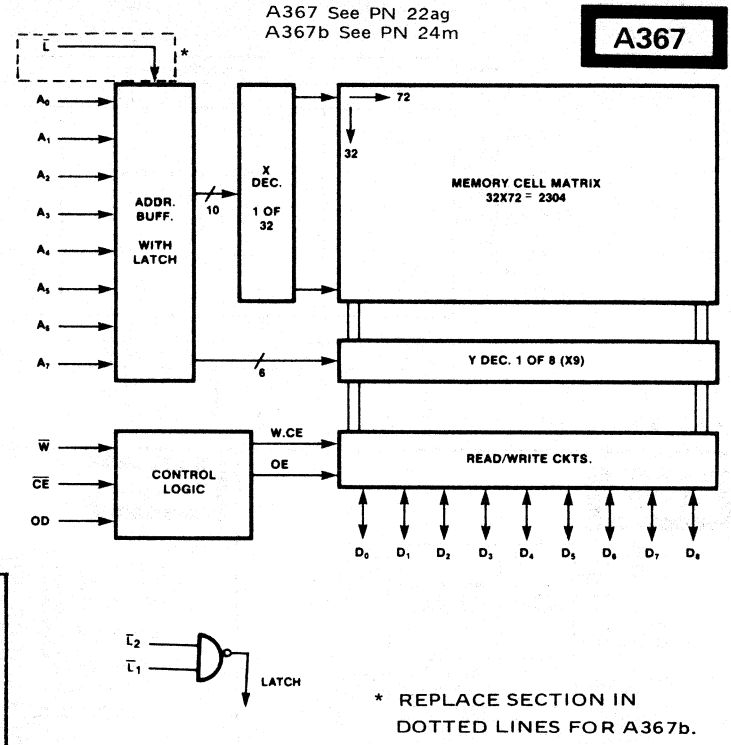
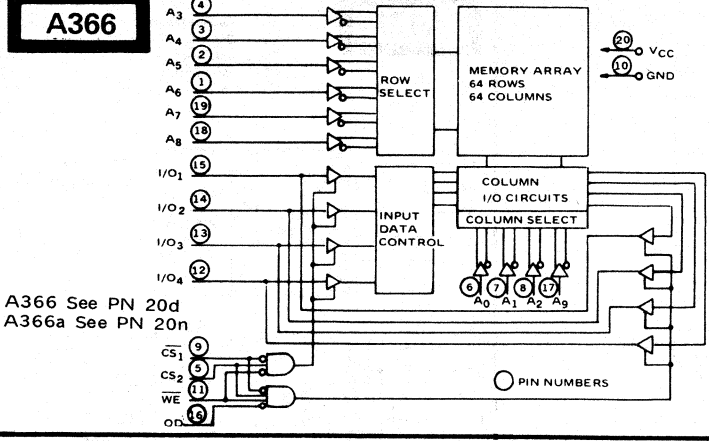
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE



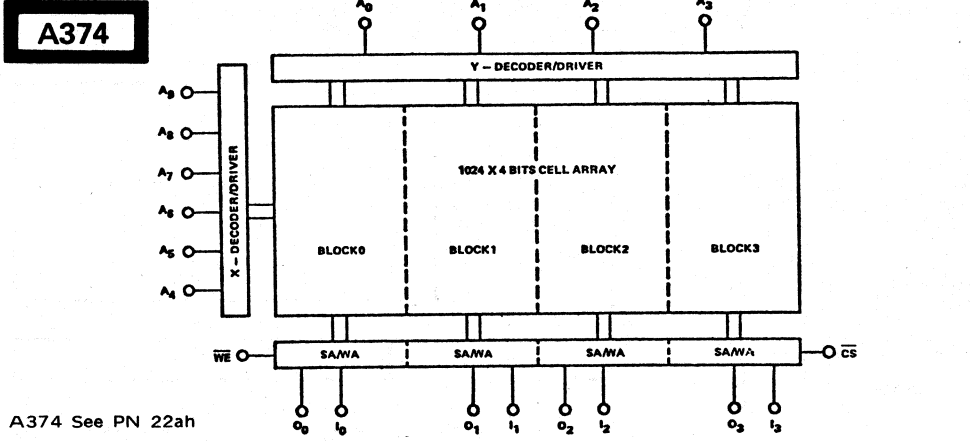
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

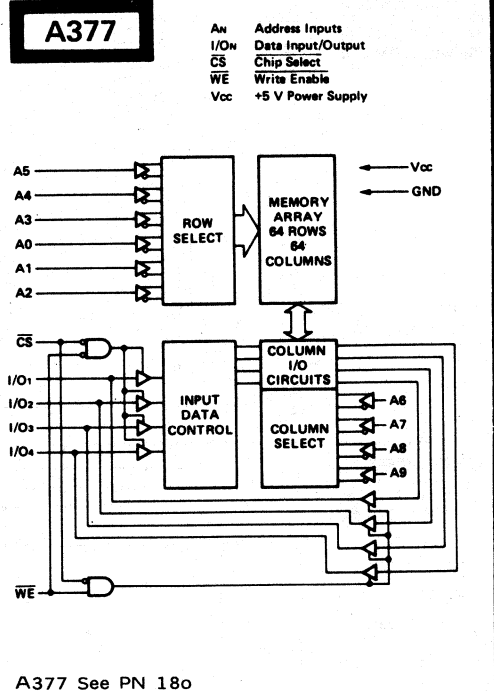


22. LOGIC/BLOCK DRAWINGS

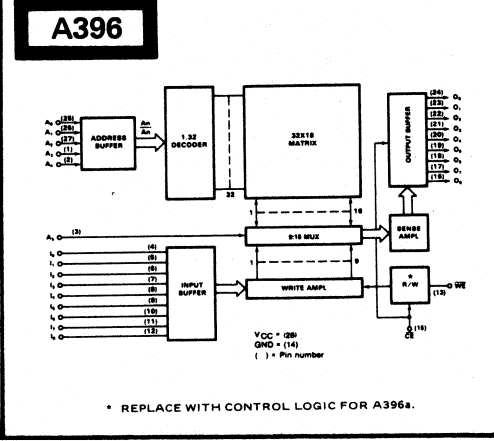
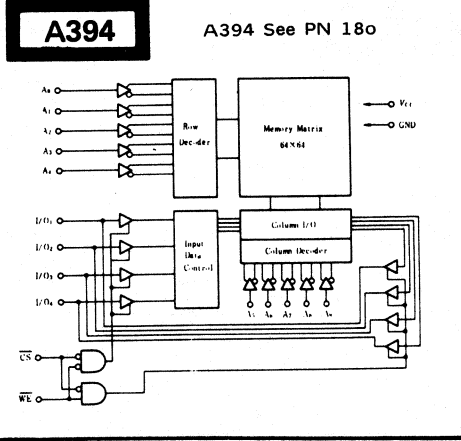
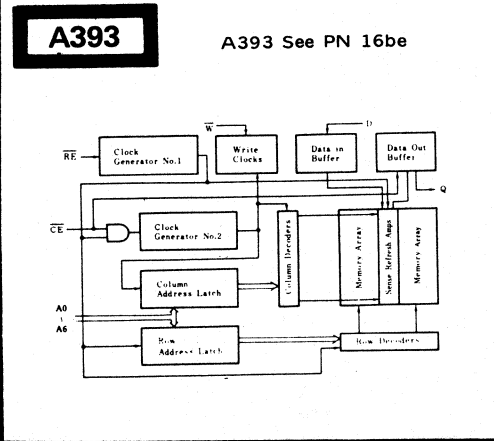
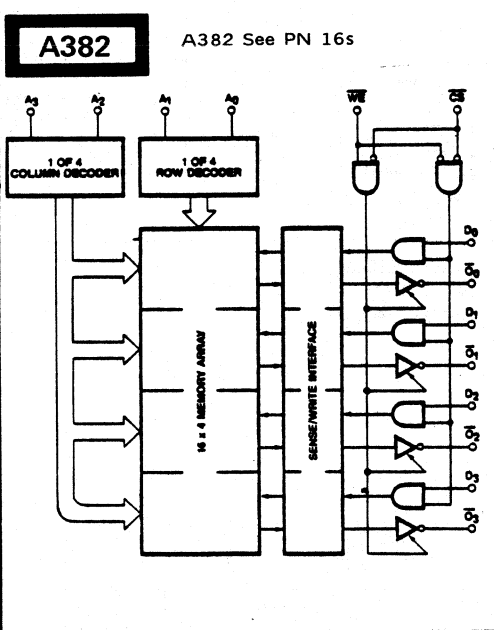
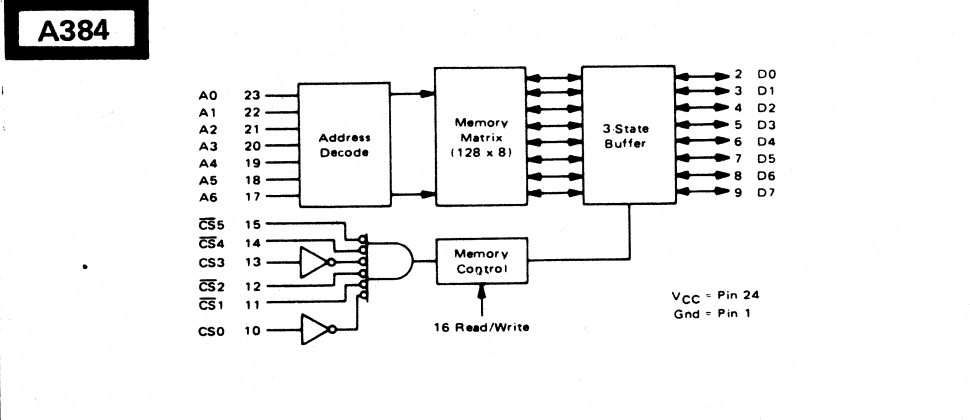
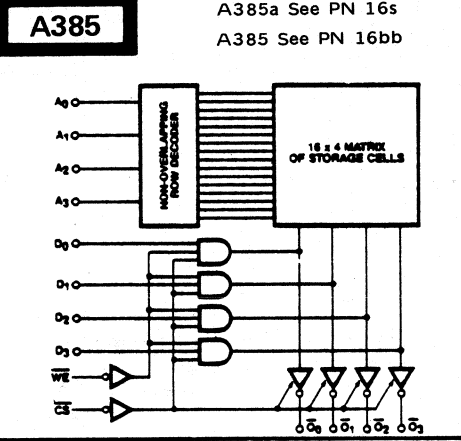
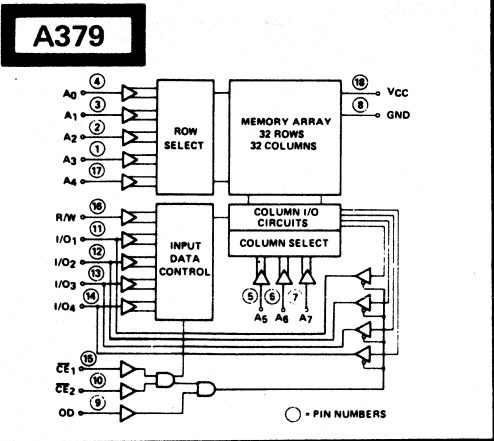
IN DRAWING NUMBER SEQUENCE



A374 See PN 22ah



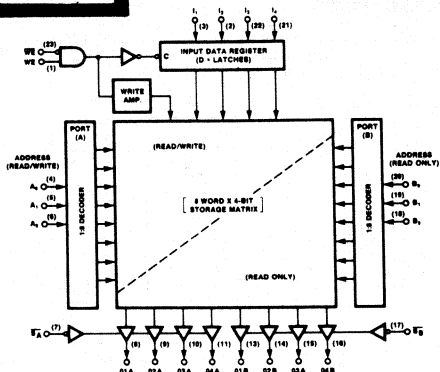
A377 See PN 180



22. LOGIC/BLOCK DRAWINGS

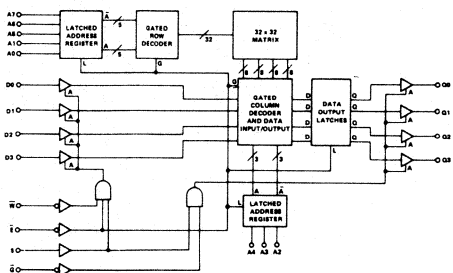
IN DRAWING NUMBER
SEQUENCE

A397



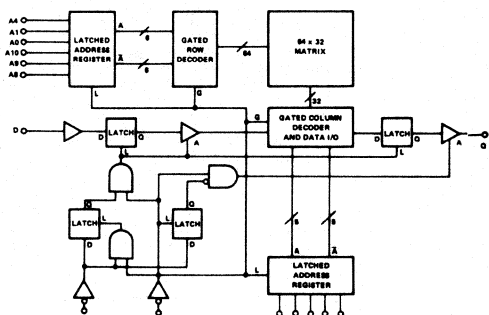
A399

A399 See PN 22aj



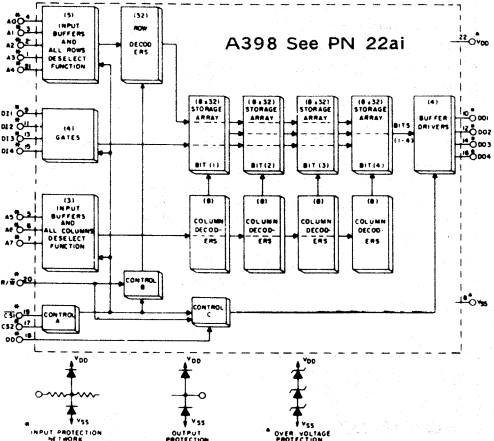
A400

A400 See PN 18ai



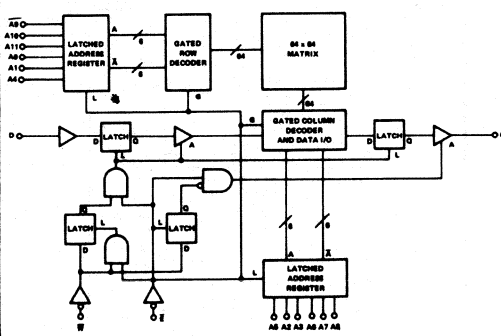
A398

A398 See PN 22ai



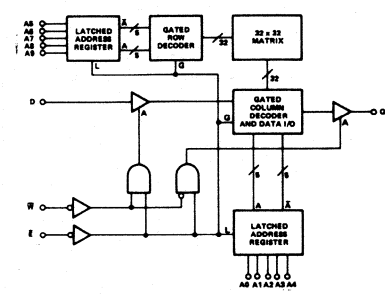
A401

A401 See PN 18aj



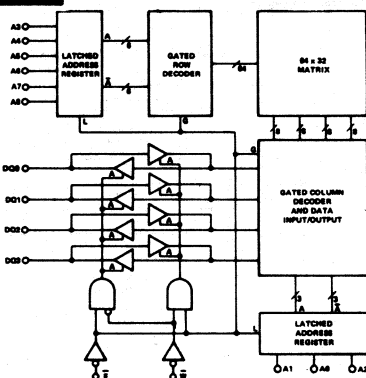
A402

A402 See PN 16bg



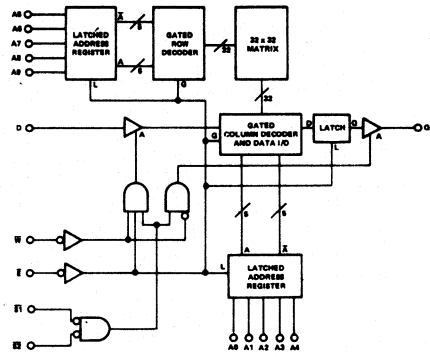
A404

A404 See PN 18ak



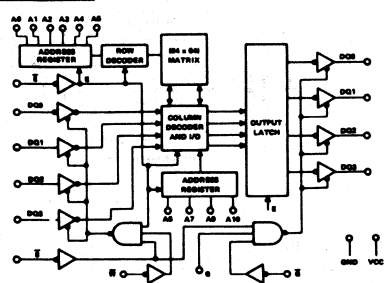
A405

A405 See PN 18am



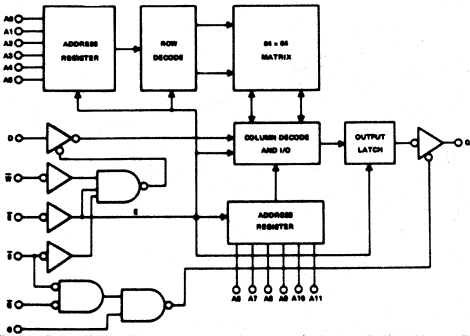
A406

A406 See PN 22ak



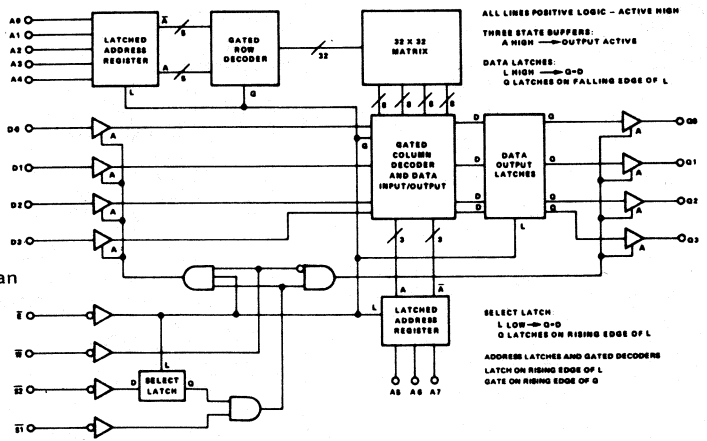
A407

A407 See PN 22am



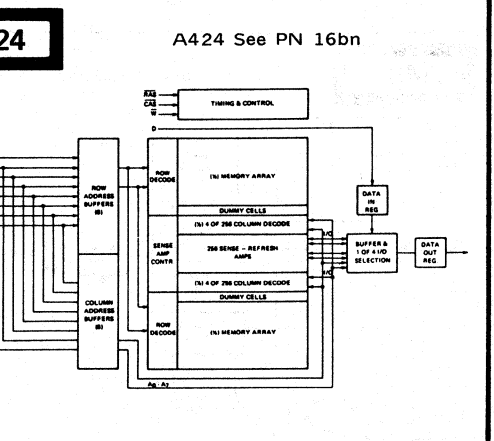
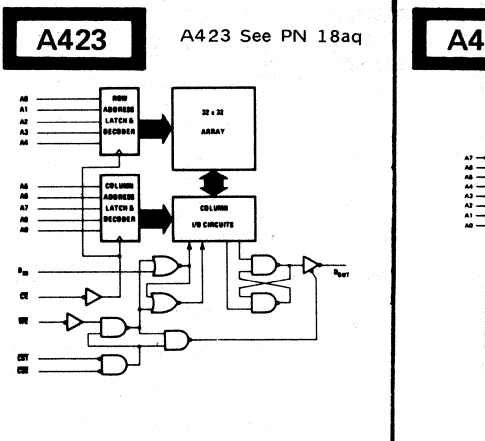
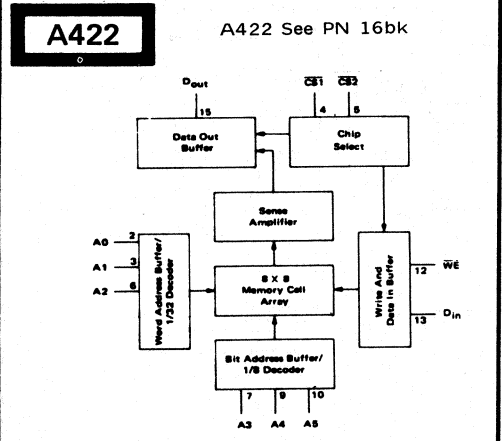
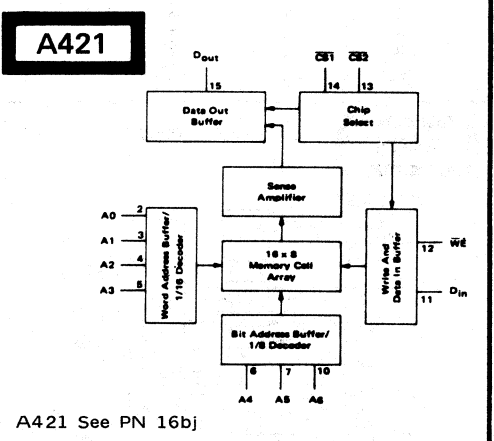
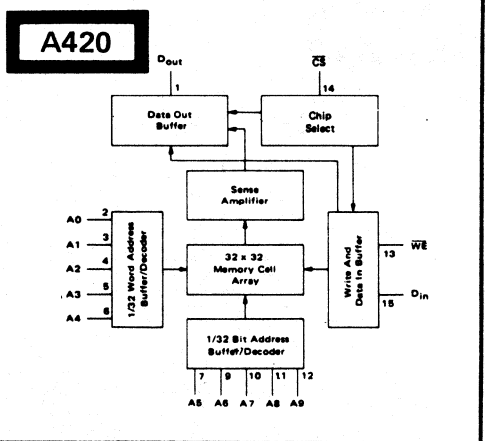
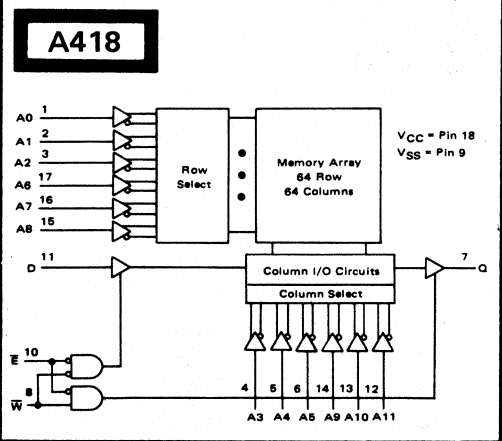
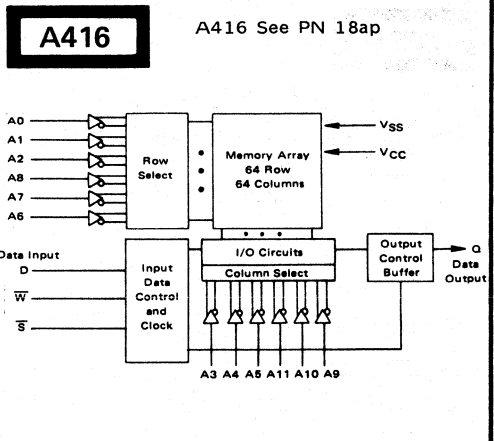
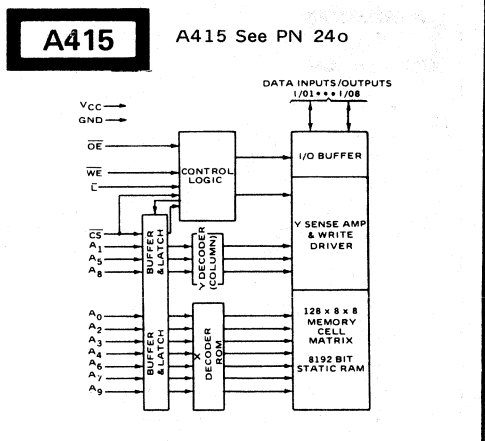
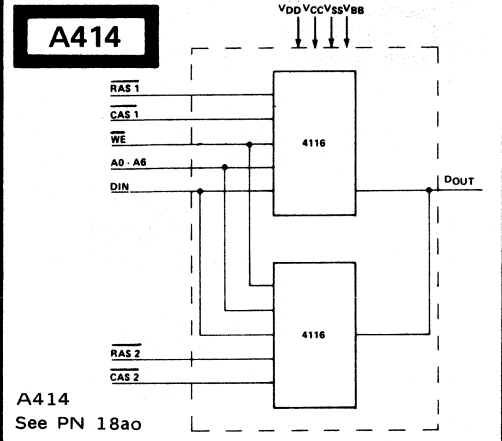
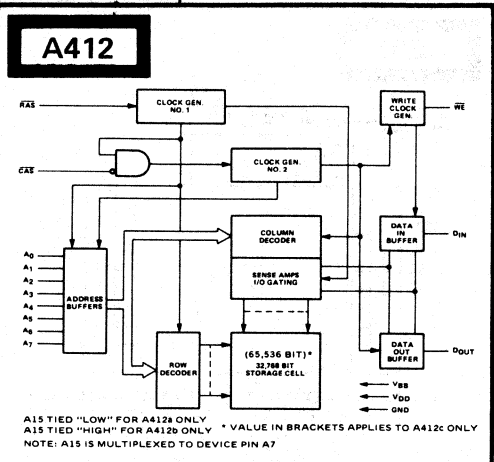
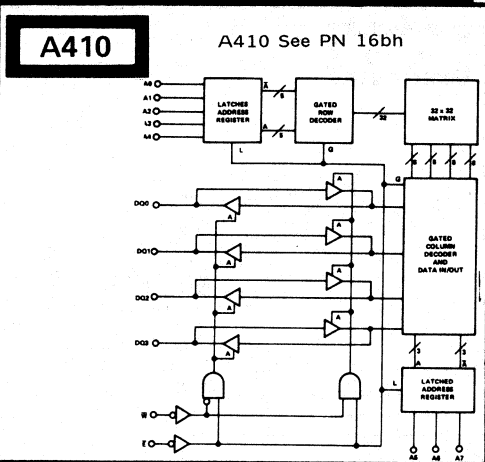
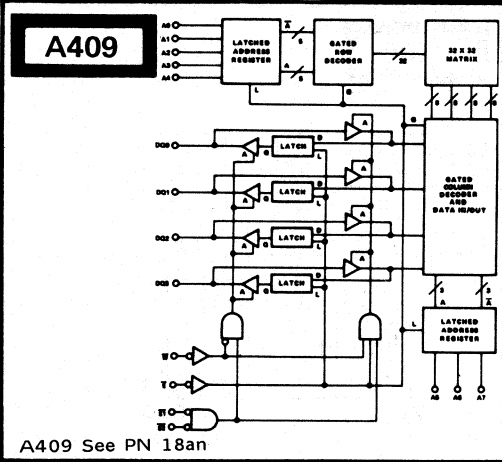
A408

A408 See PN 22an



22. LOGIC/BLOCK DRAWINGS

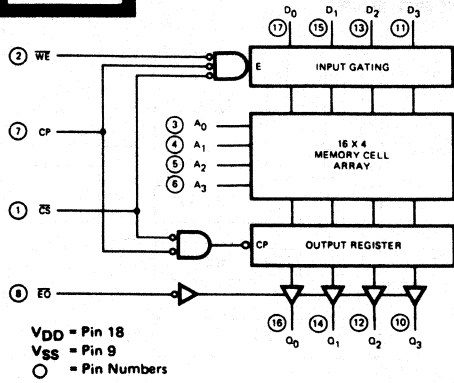
IN DRAWING NUMBER SEQUENCE



22. LOGIC/BLOCK DRAWINGS

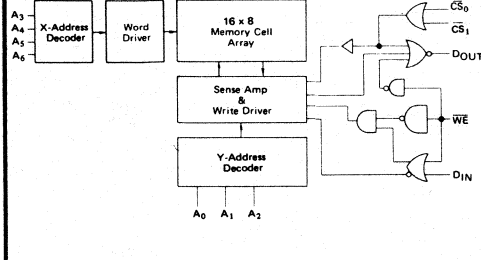
IN DRAWING NUMBER SEQUENCE

A431

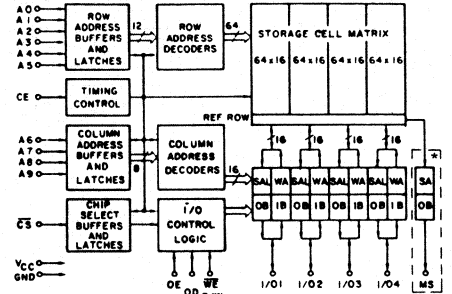


A432

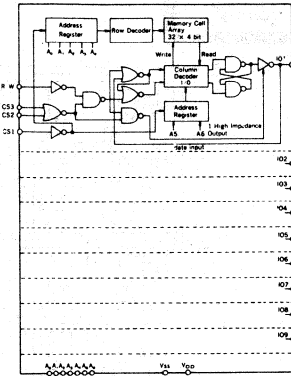
A432 See PN 16bm



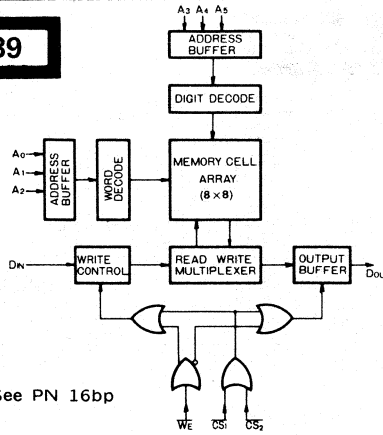
A433



A435

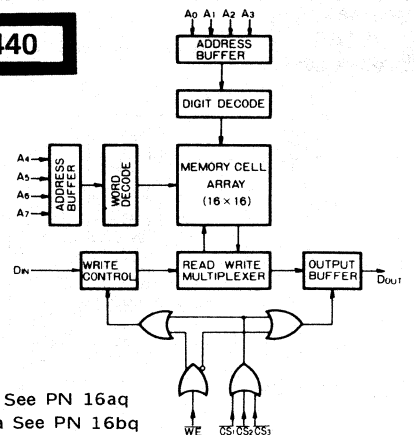


A439



A439 See PN 16bp

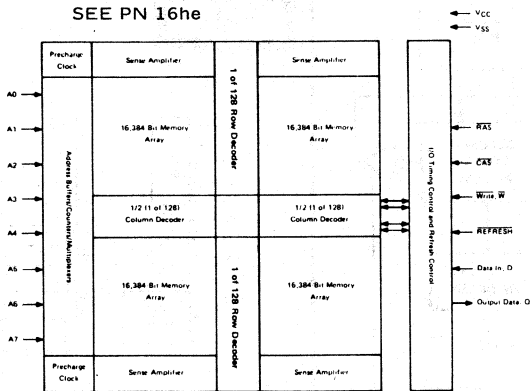
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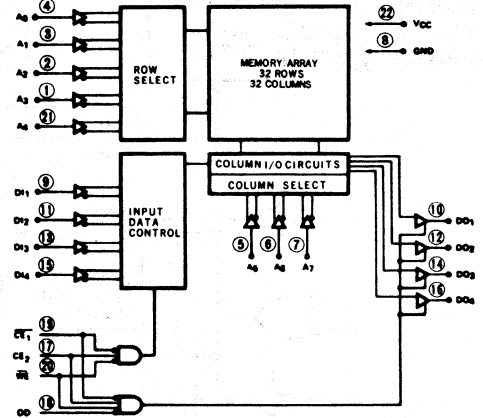
A440 See PN 16aq
A440a See PN 16bq

A437

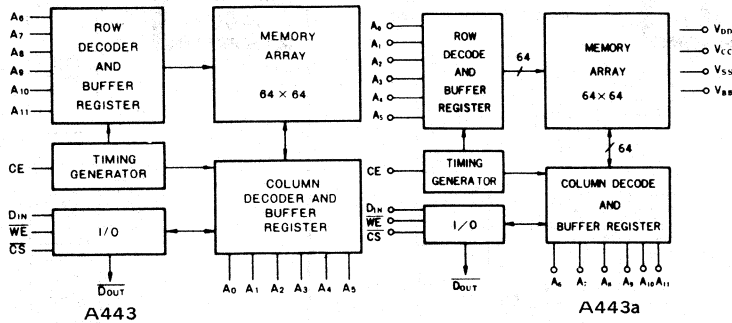
SEE PN 16he



A438



A443

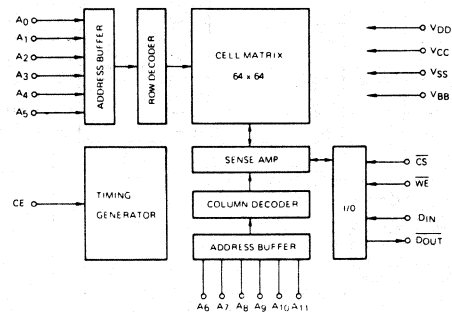


A443

A443a

A444

A444 See PN 22m

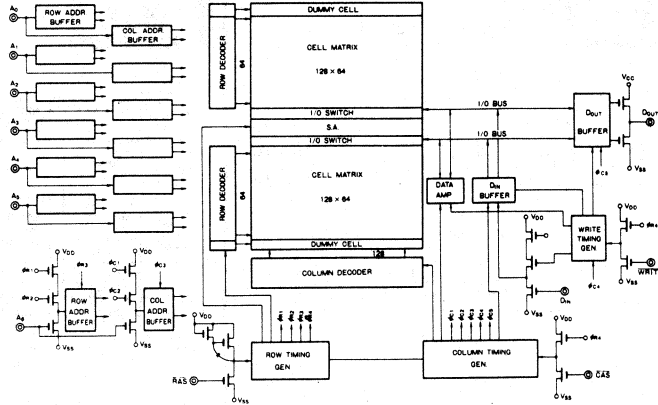


A443 SEE PN 22m
A443a SEE PN 22bk
A443b SEE PN 18br

22. LOGIC/BLOCK DRAWINGS

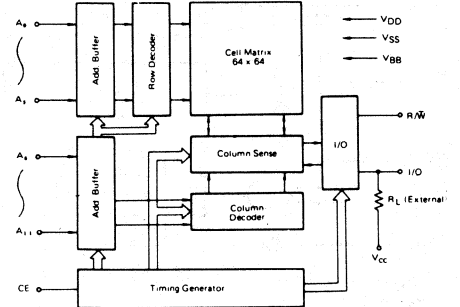
IN DRAWING NUMBER SEQUENCE

A445



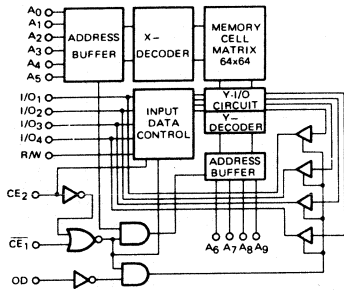
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A446 See PN 18e

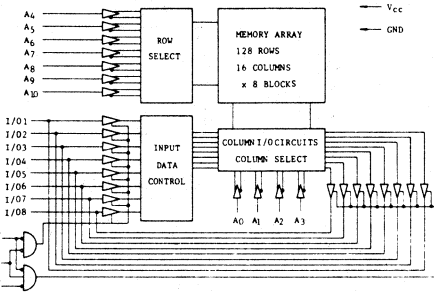


A448

A448 See PN 16e

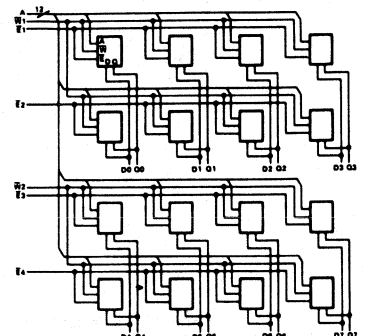


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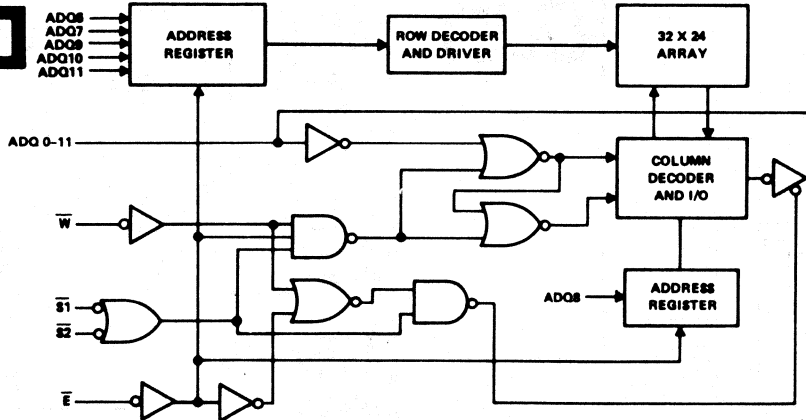


SEE PN 24n

A455

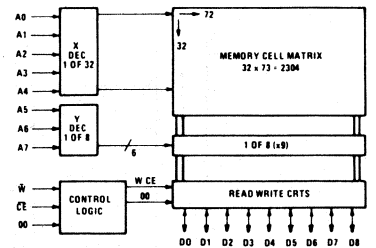


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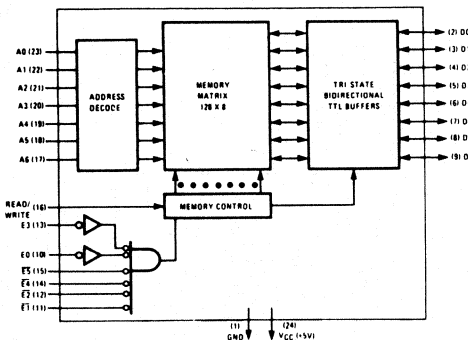


A456

A456 See PN 22at

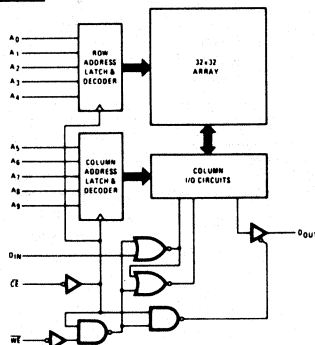


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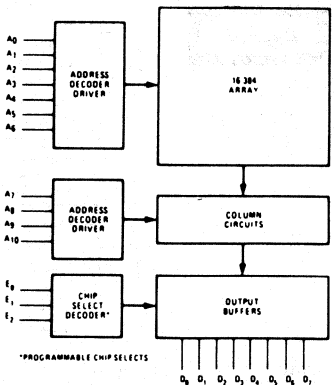


A461

A461 See PN 16ad



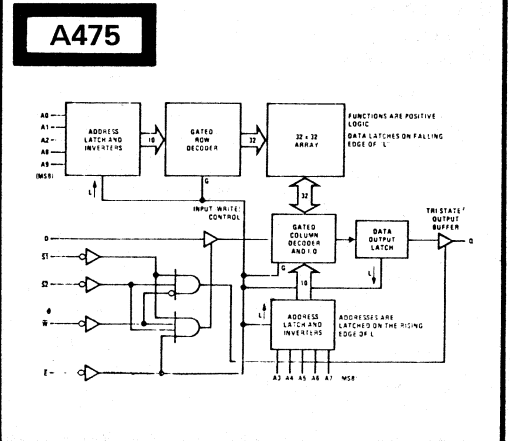
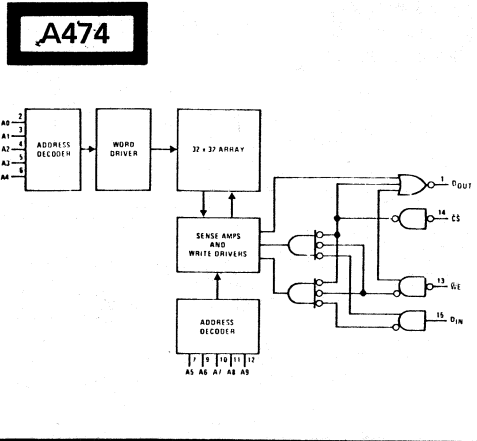
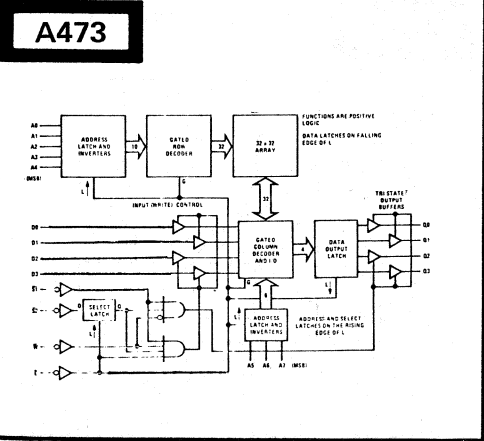
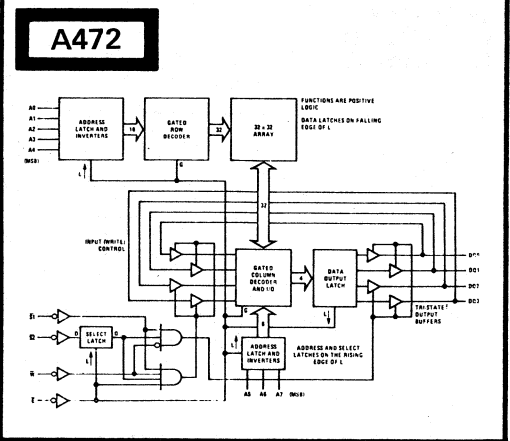
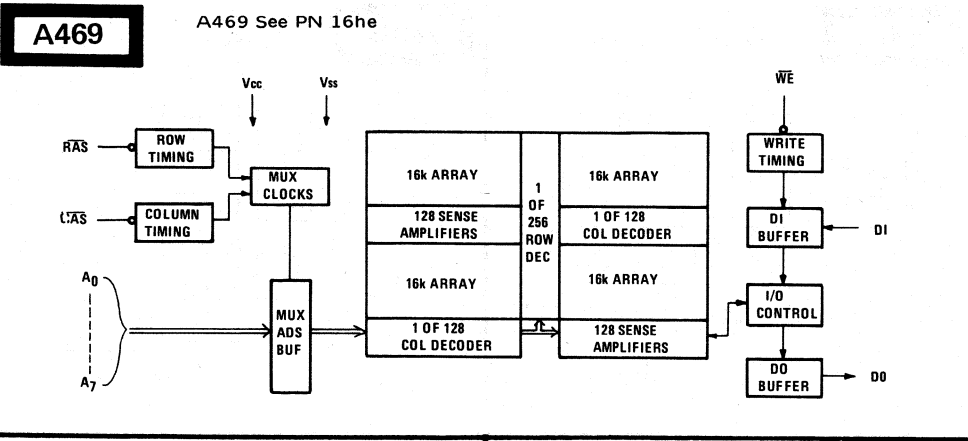
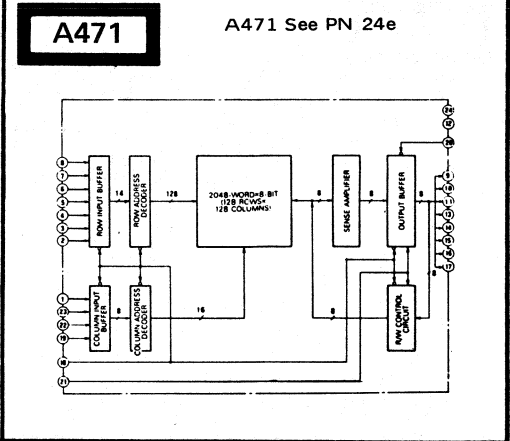
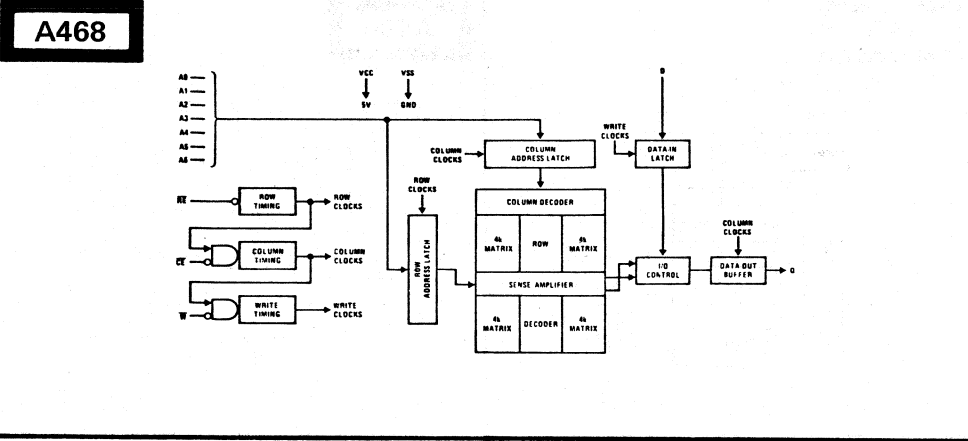
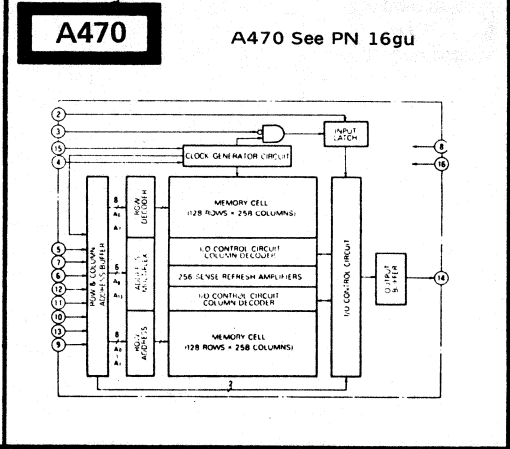
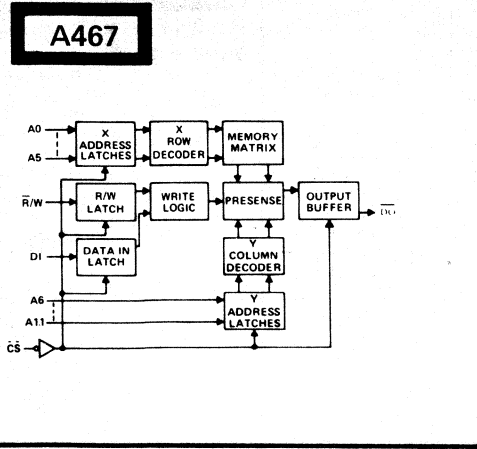
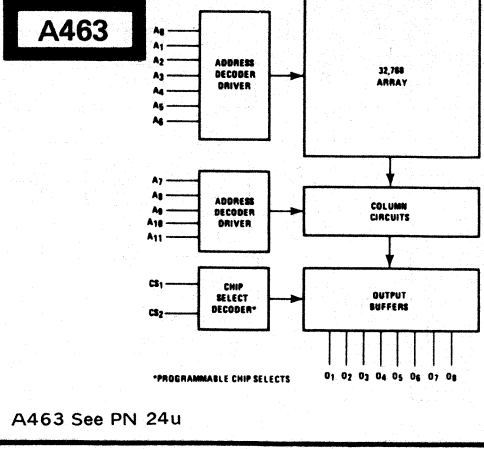
A462



A462 See PN 24s
A462a See PN 24t

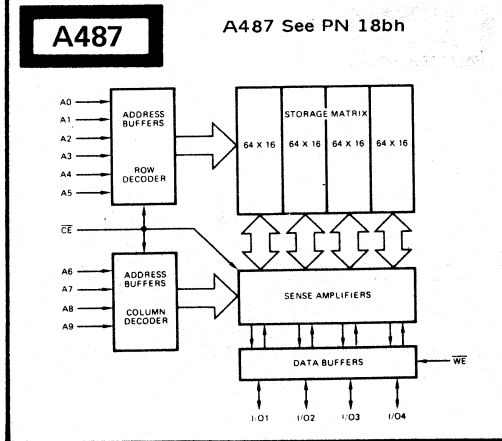
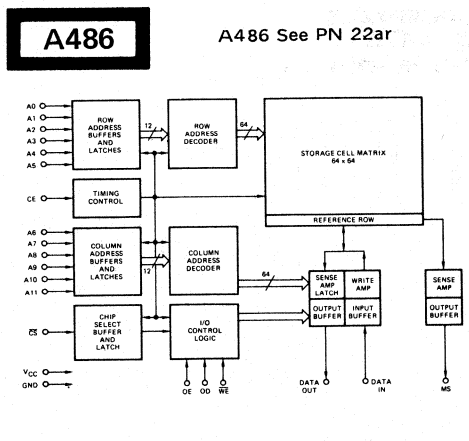
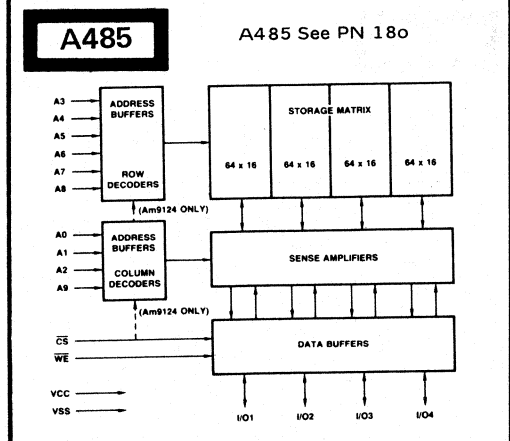
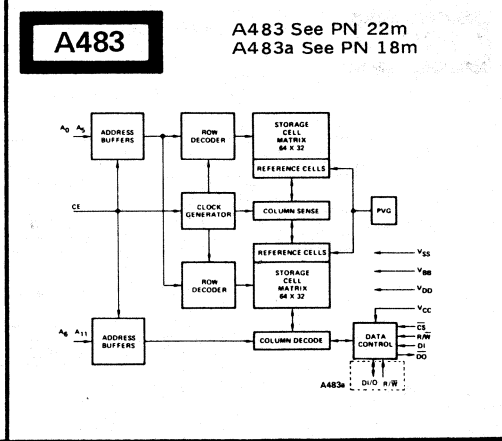
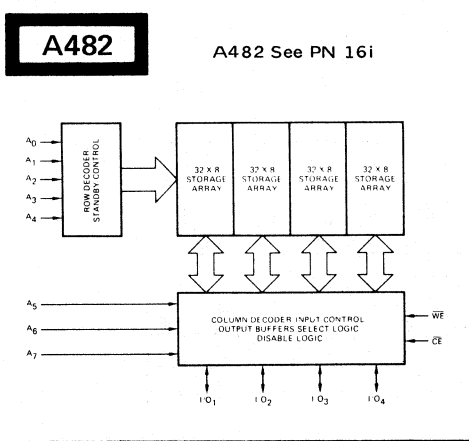
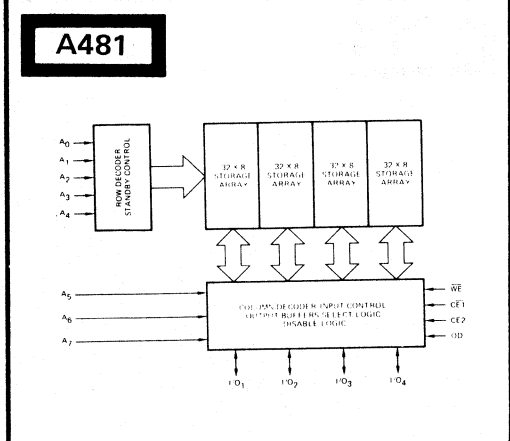
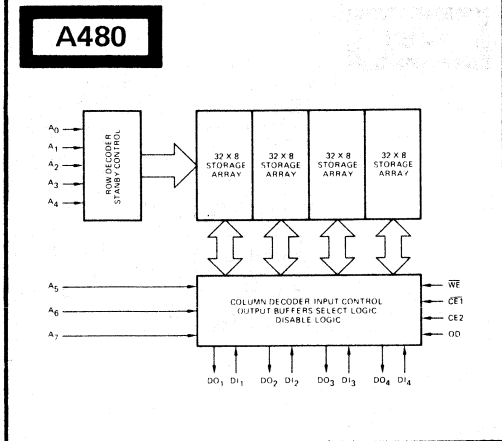
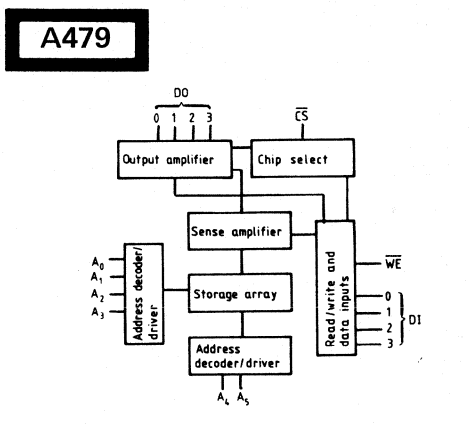
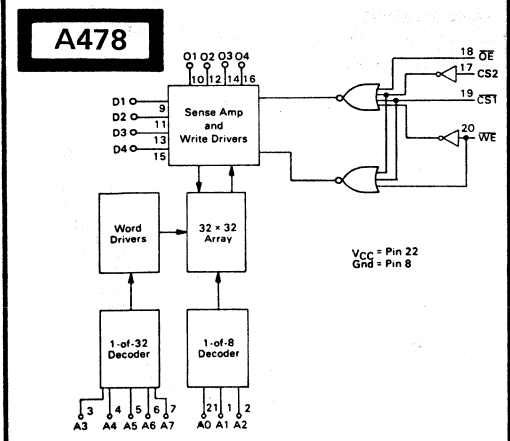
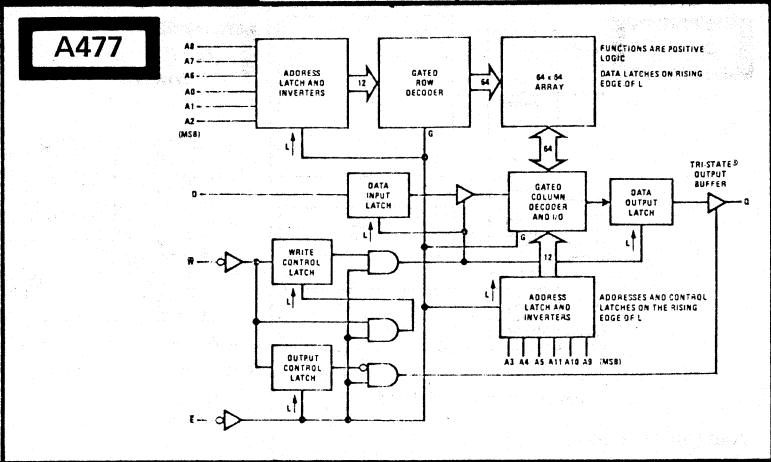
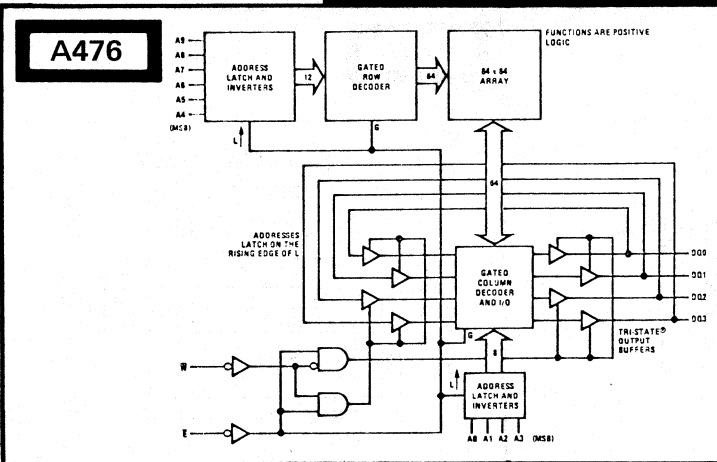
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE



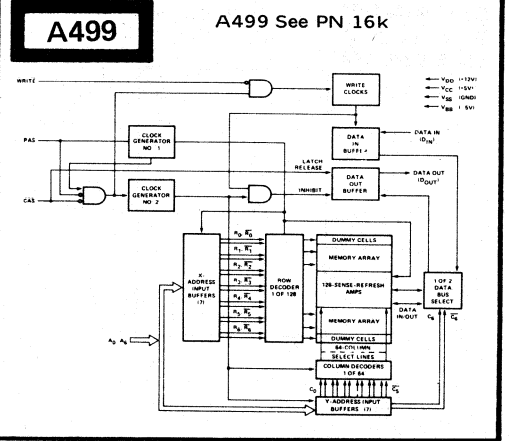
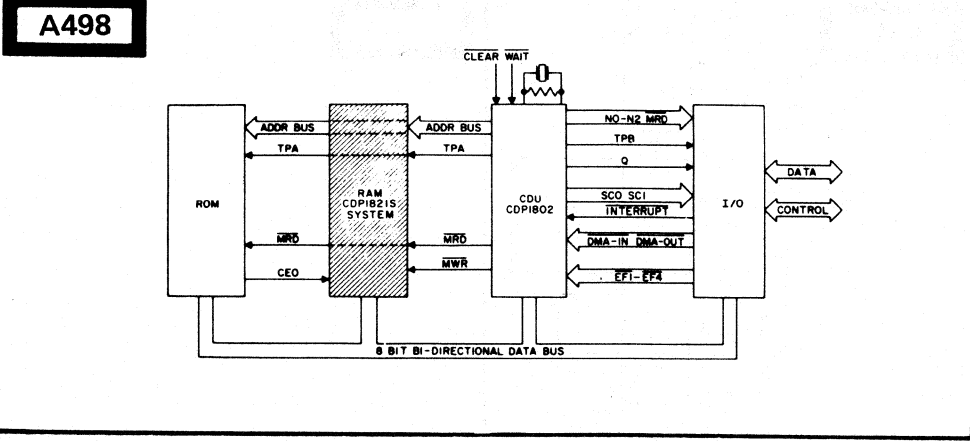
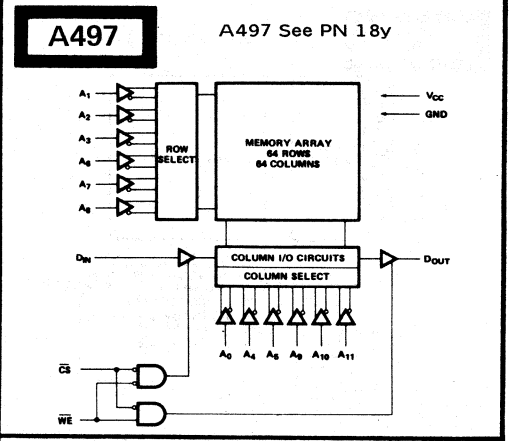
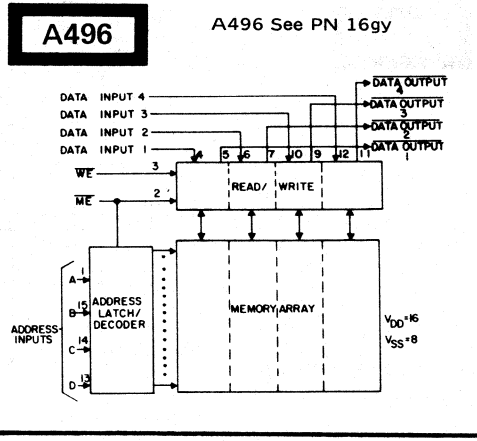
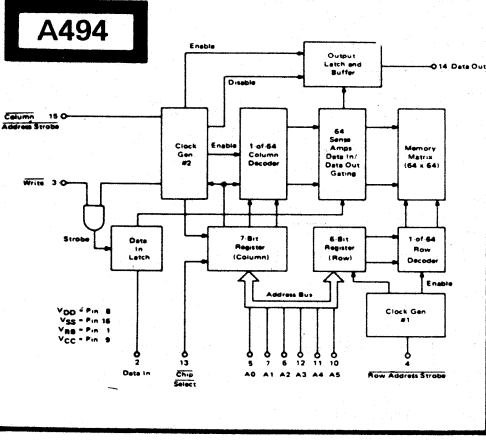
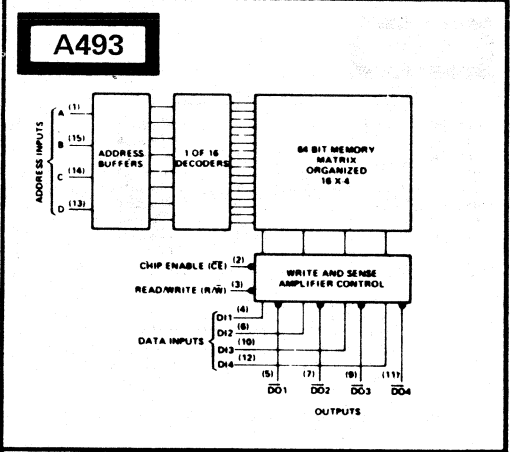
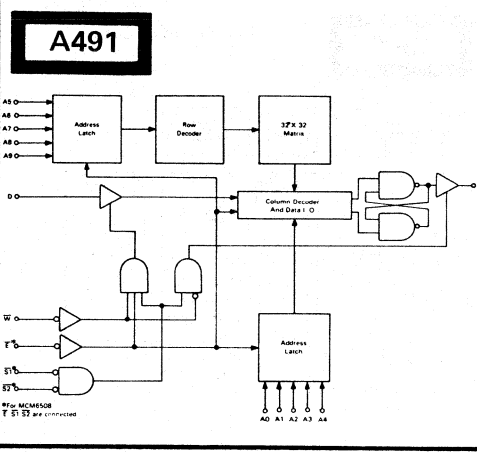
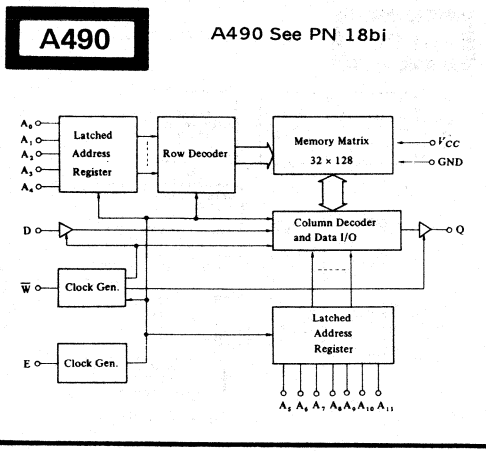
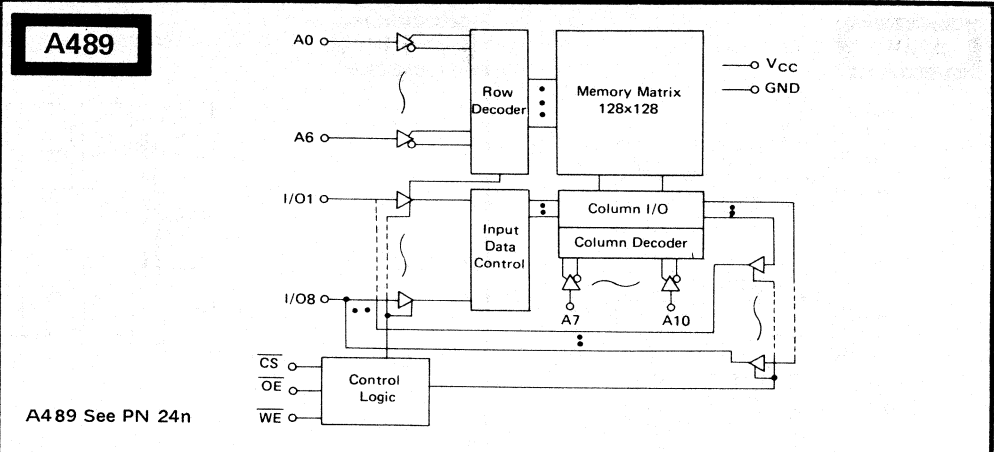
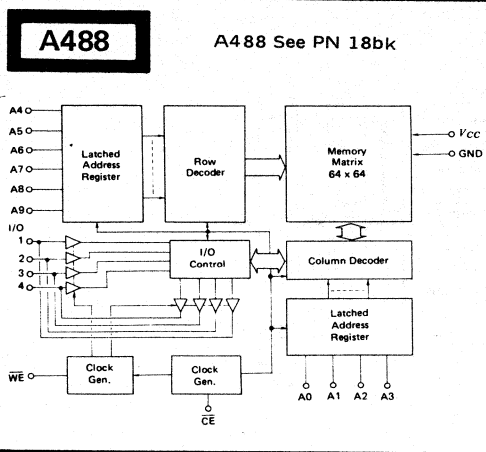
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE



22. LOGIC/BLOCK DRAWINGS

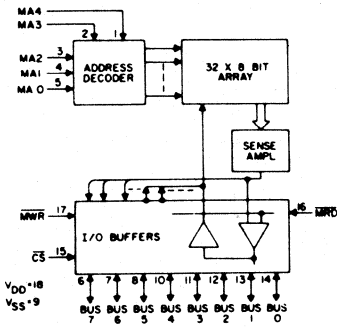
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22. LOGIC/BLOCK DRAWINGS

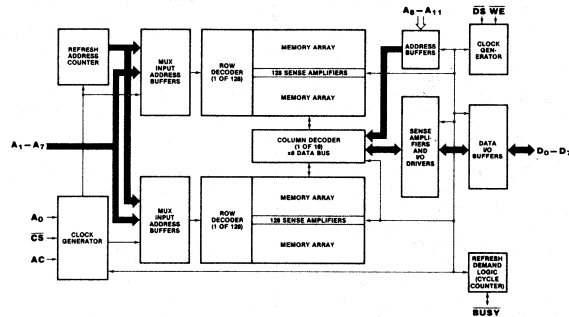
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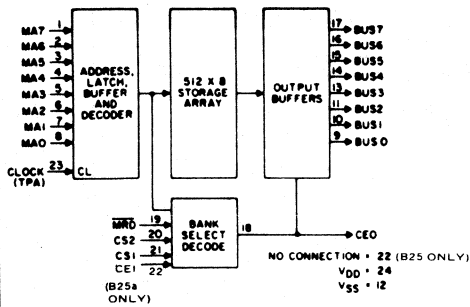


A502

A502 See PN 28ae

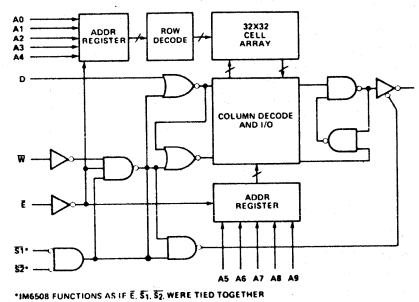


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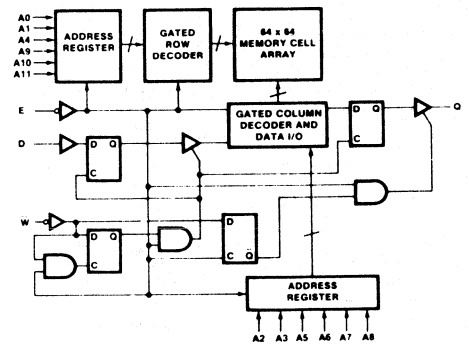
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A505 See PN 18am



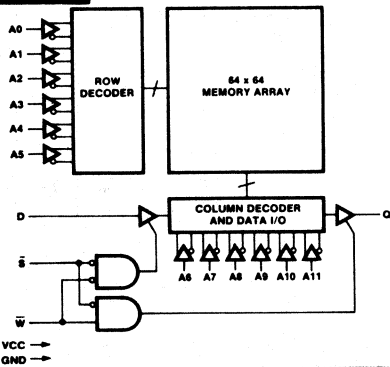
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A506 See PN 18af



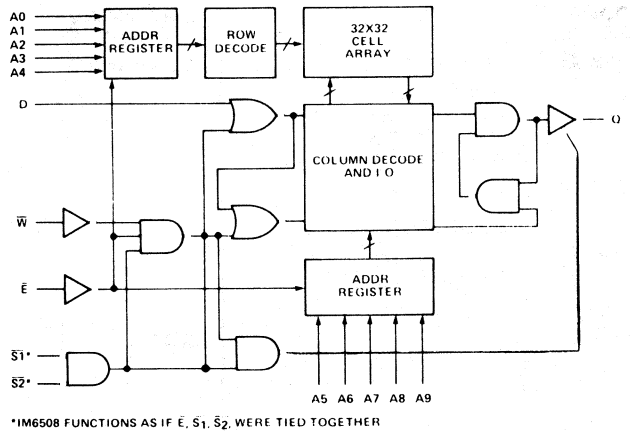
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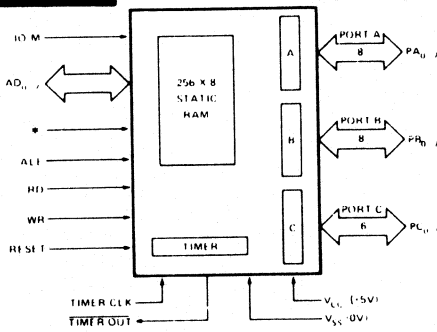
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For A509 See PN 18am
For Note See PN 16ak



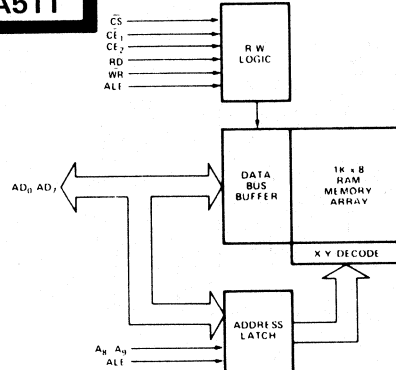
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For CE See PN 40i
For CE See PN 40j



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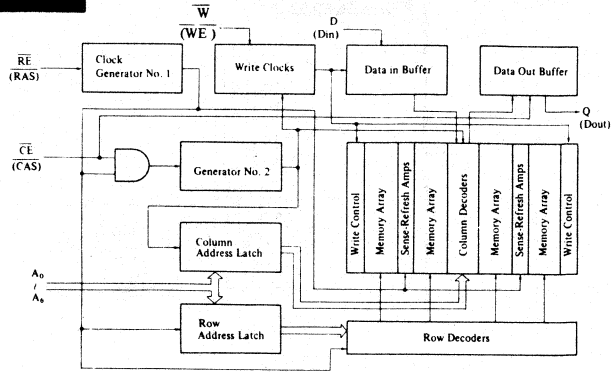
A511 See PN 18bq



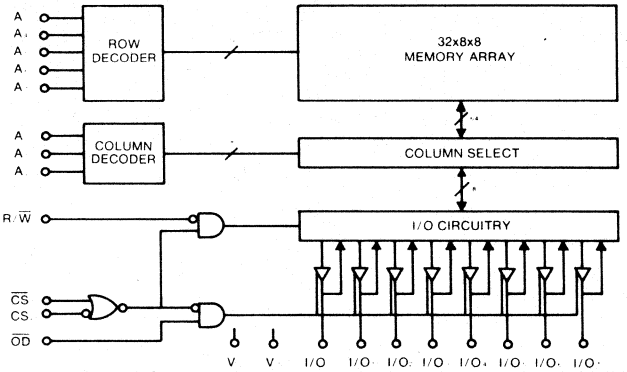
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

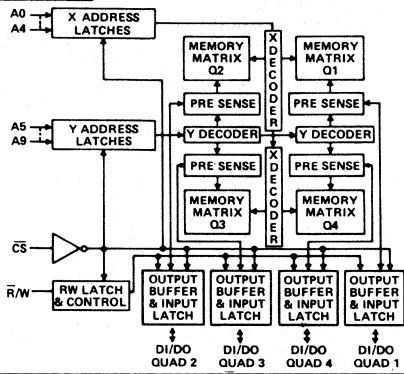
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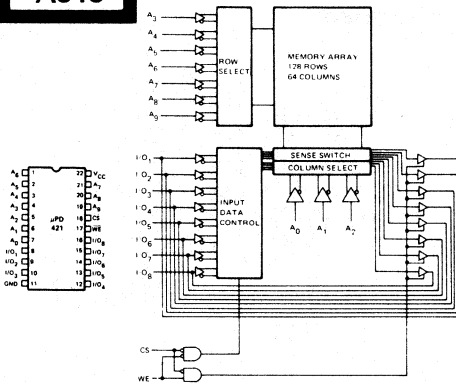
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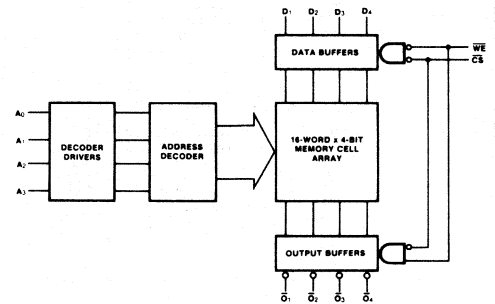
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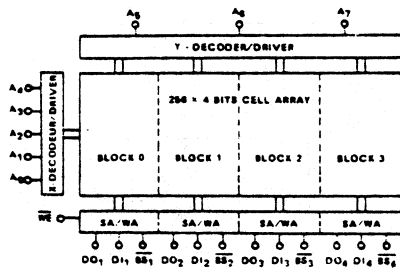
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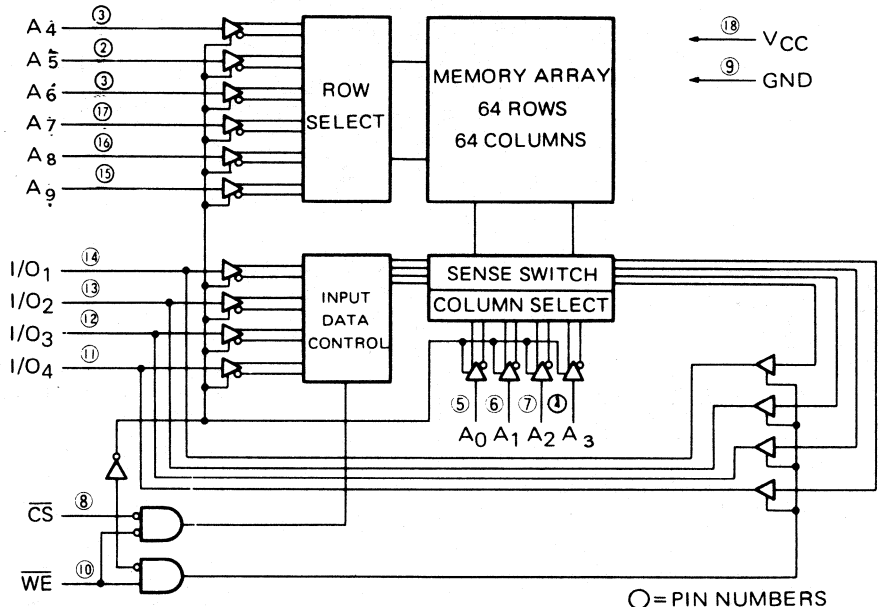


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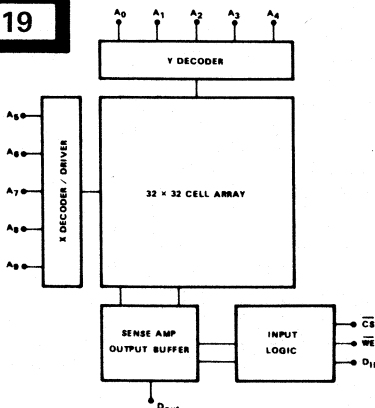
A517 See PN24ig
A517a See PN24ih

A518



○ = PIN NUMBERS

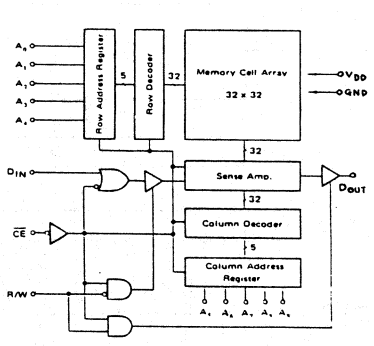
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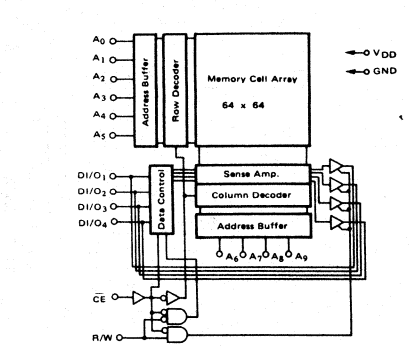
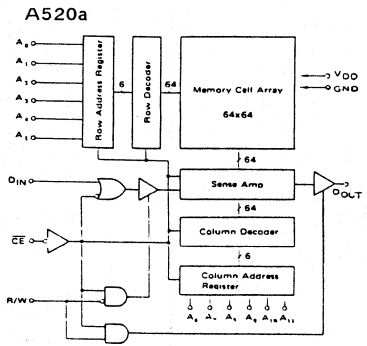
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

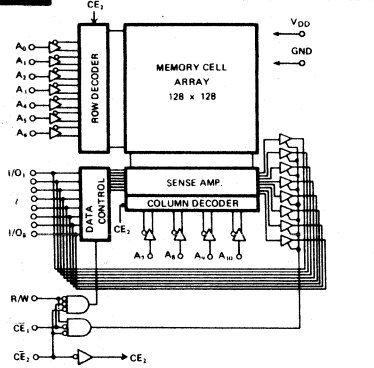
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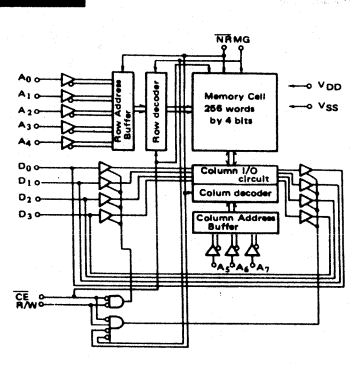
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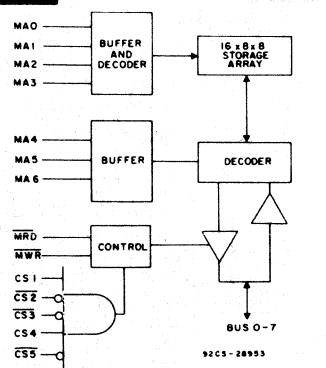
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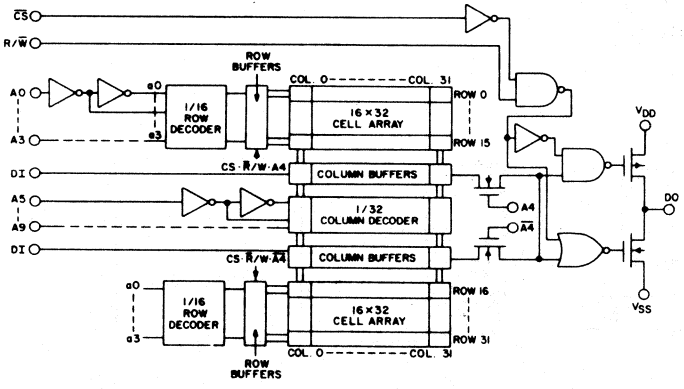
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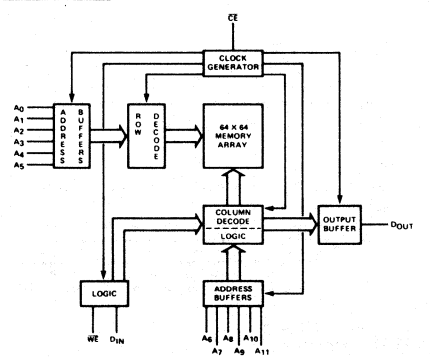
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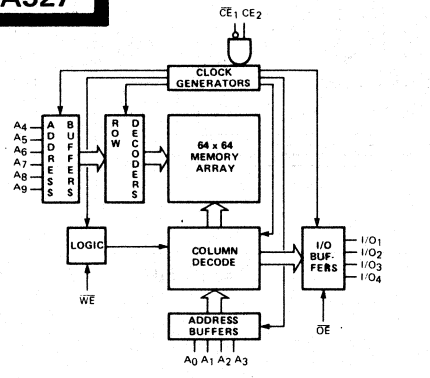
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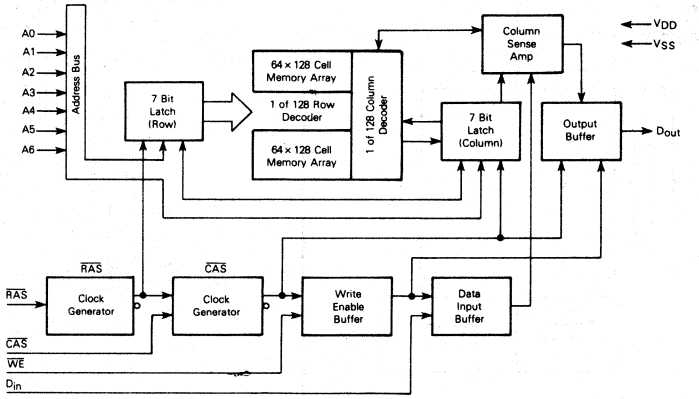
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A527



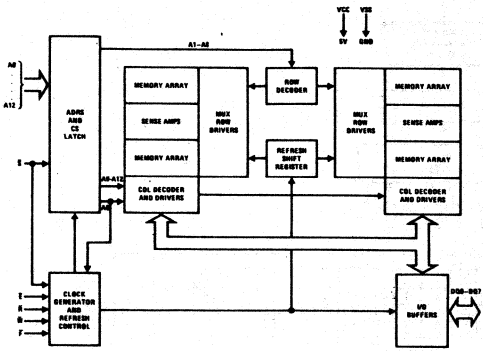
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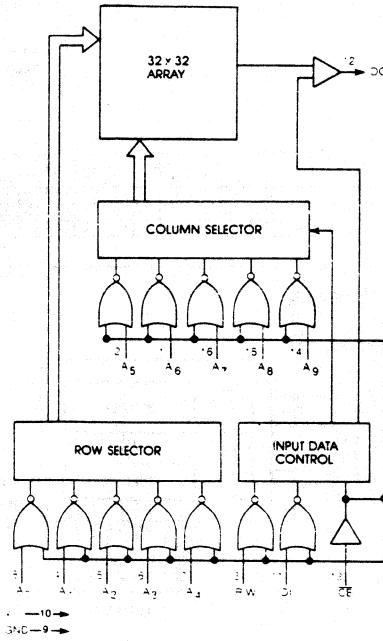
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

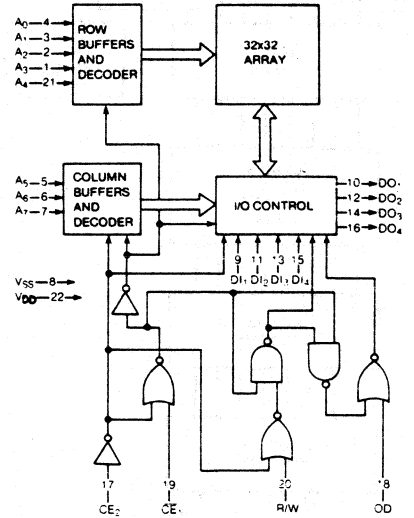
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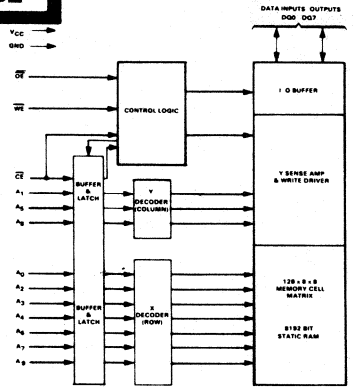
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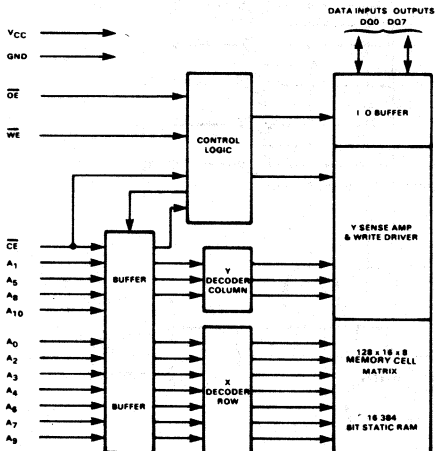
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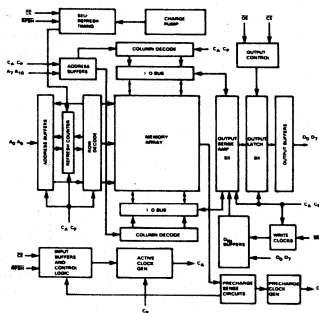
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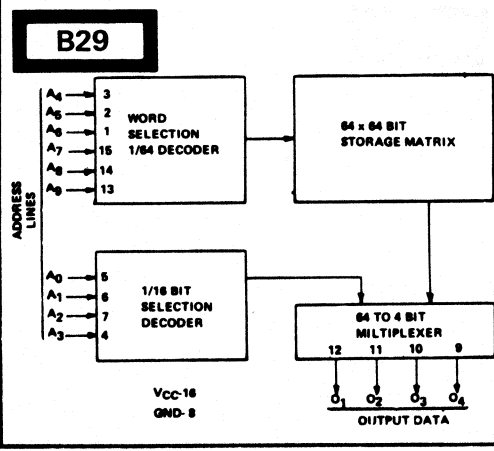
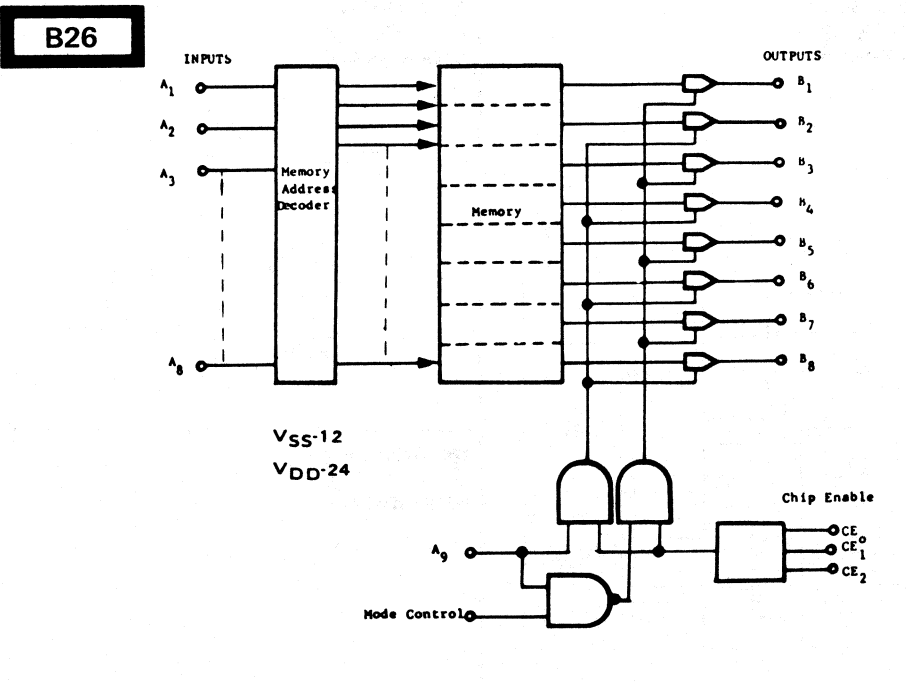
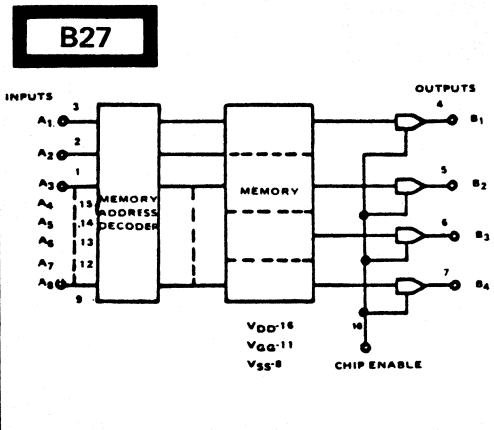
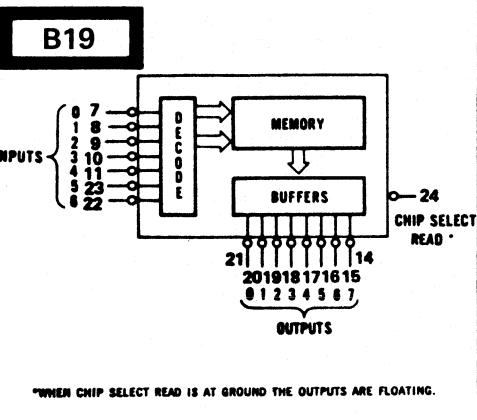
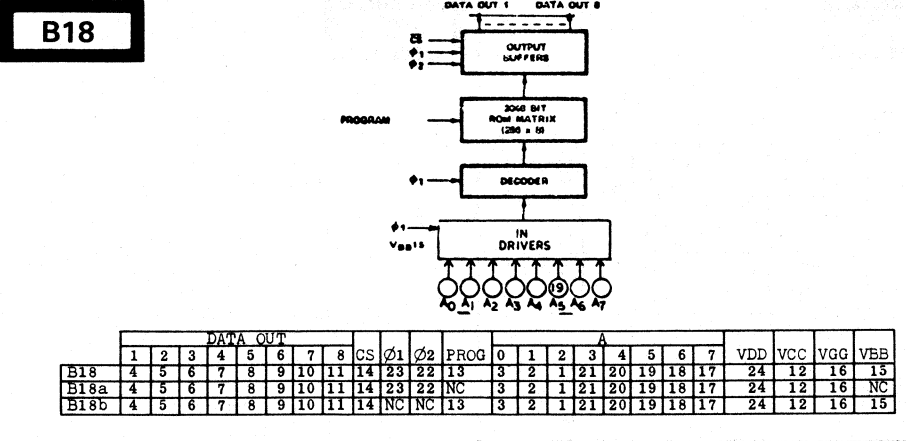
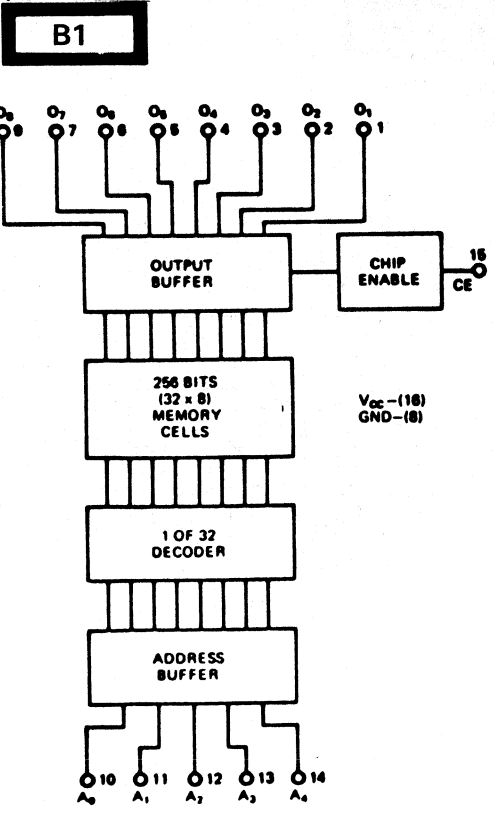


A534



22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

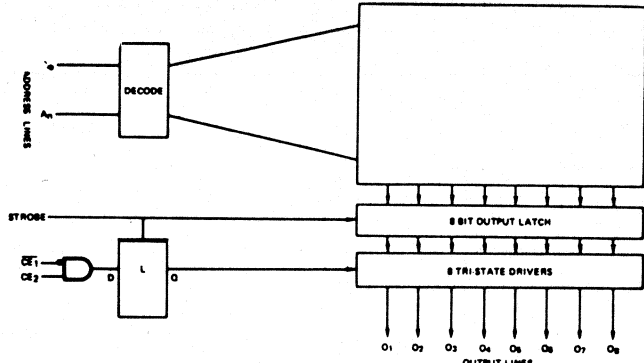


	A								CHI ENABLE				V DD				VGG					
	1	2	3	4	5	6	7	8	1	2	3	4	15	16	17	18	17					
B26	3	2	1	21	20	19	18	17	13	4	5	6	7	8	9	10	11	14	NC	NC	15	16
B26a	3	2	1	21	20	19	18	14	NC	4	5	6	7	8	9	10	11	15	NC	NC	16	17
B26b	3	2	1	21	20	19	18	17	13	4	5	6	7	8	9	10	11	14	22	23	15	16
B26c	3	2	1	21	20	19	18	14	NC	4	5	6	7	8	9	10	11	15	22	23	16	17

22. LOGIC/BLOCK DRAWINGS

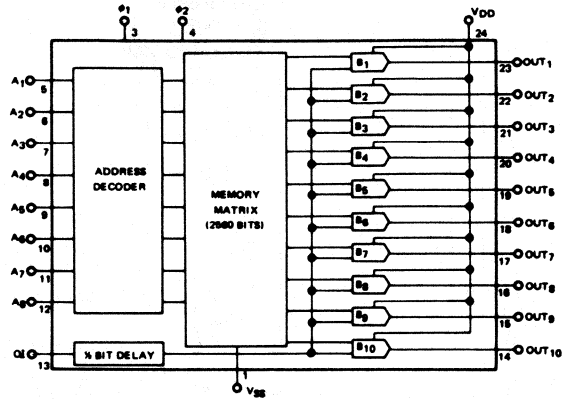
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B32

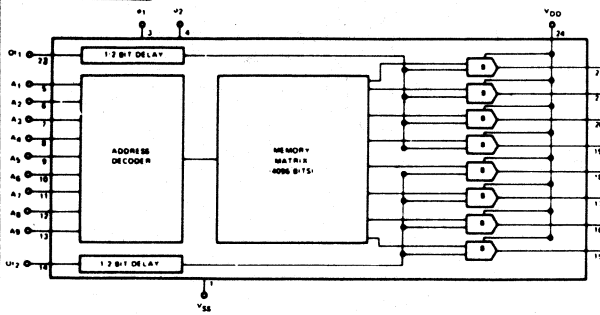


ADDRESS								OUT								CE	CE	STROBE	VCC	GND		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	18	24	12
B32	21	22	23	1	2	3	4	5	6	7	8	9	10	14	15	16	17	20	19	18	24	12
B32a	21	22	23	1	2	3	4	5	6	7	8	9	10	14	15	16	17	20	19	18	24	12

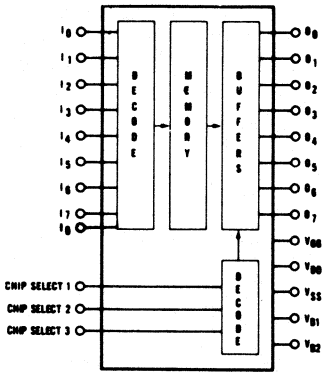
B35



B36

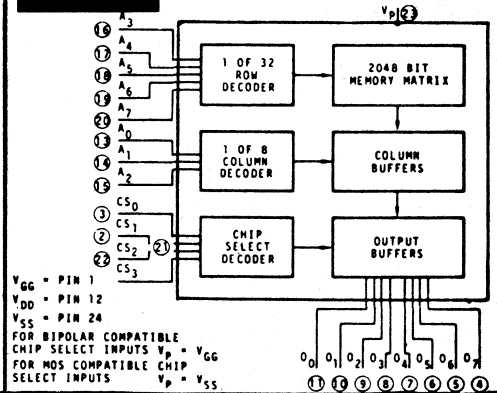


B45



Y								O								CHIP SELECT									
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1	2	3	VCC	VDD	VSS	VB1	VB2
B45	15	16	17	18	19	24	23	22	11	10	9	8	7	6	5	4	3	1	2	3	20	21	12	13	14
B45a	3	2	1	21	20	19	18	17	14	5	7	9	10					4	23	22	18	24	12	13	15

B46

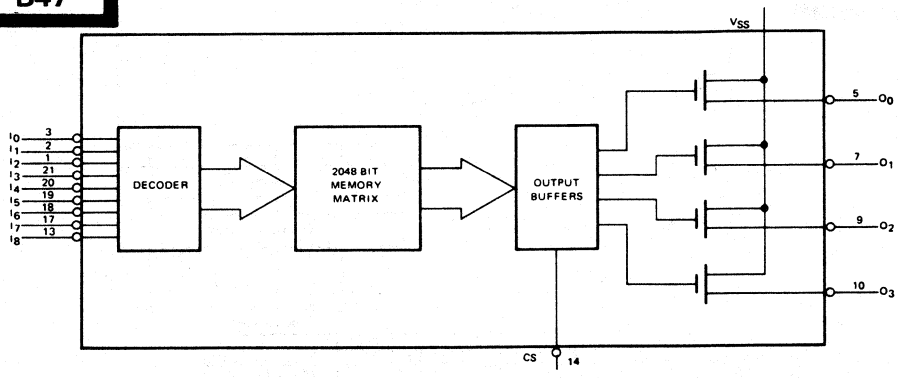


V_{CC} = PIN 1
V_{DD} = PIN 12
V_{SS} = PIN 24
FOR BIPOLAR COMPATIBLE
CHIP SELECT INPUTS V_p = V_{CC}
FOR MOS COMPATIBLE CHIP
SELECT INPUTS V_p = V_{SS}

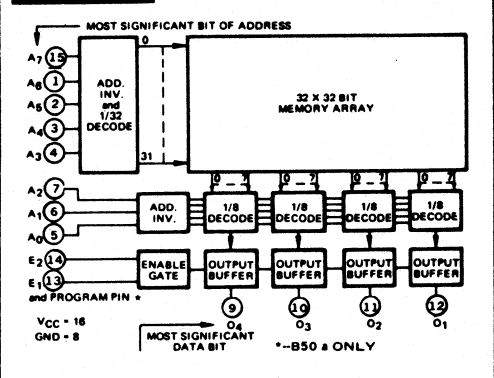
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

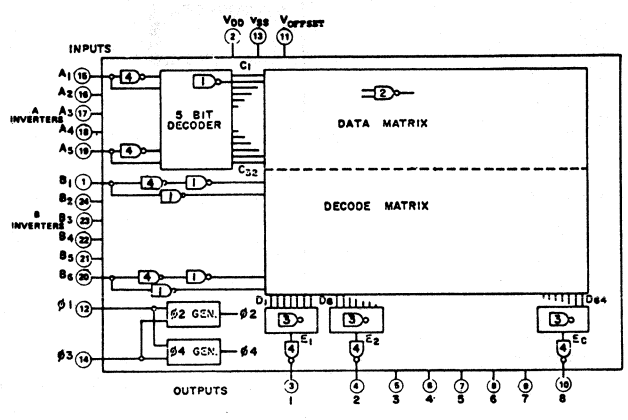
B47



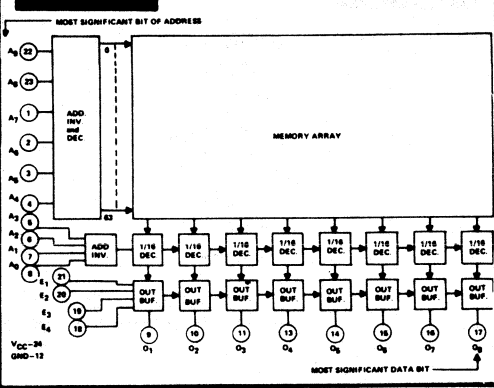
B50



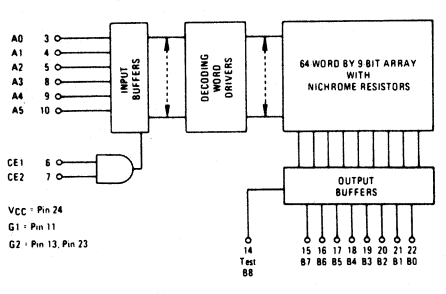
B49



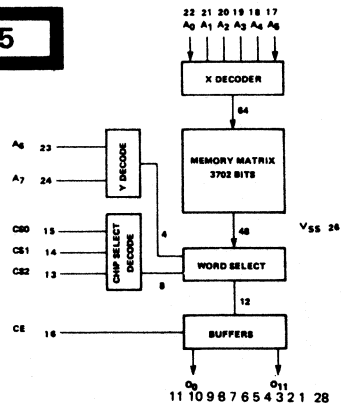
B53



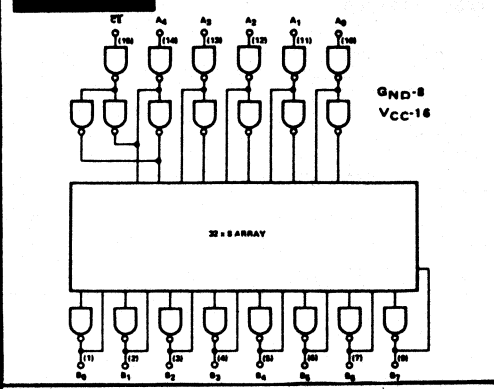
B61



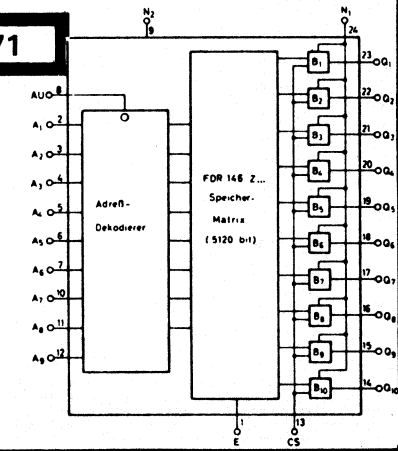
B65



B67

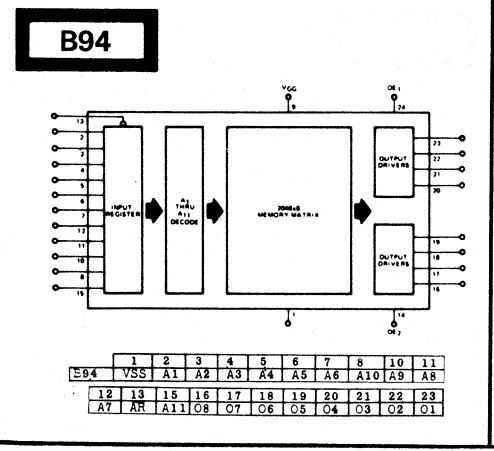
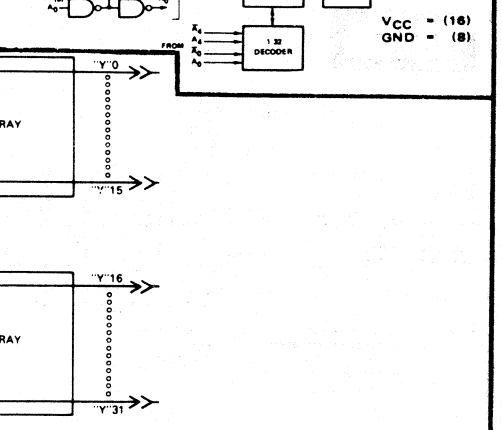
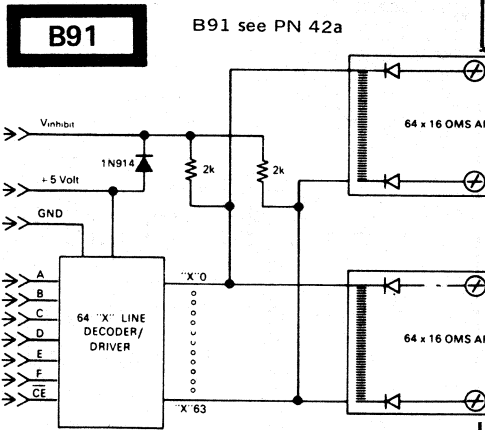
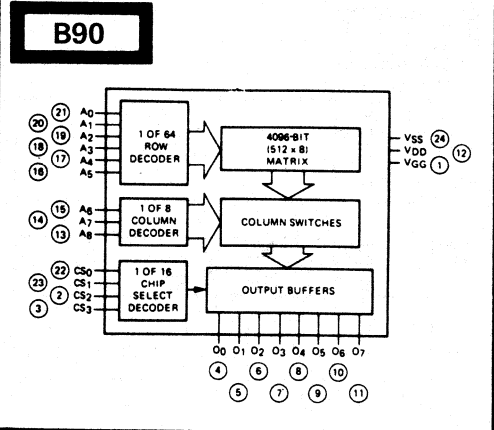
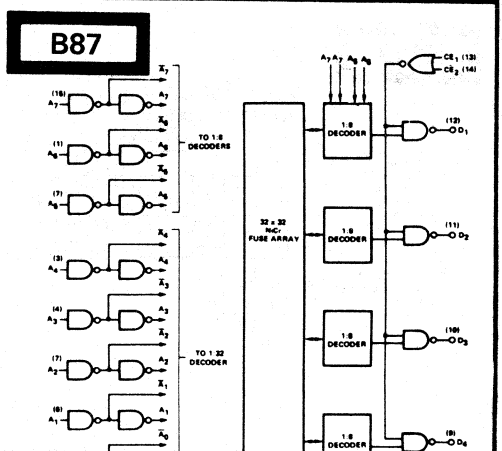
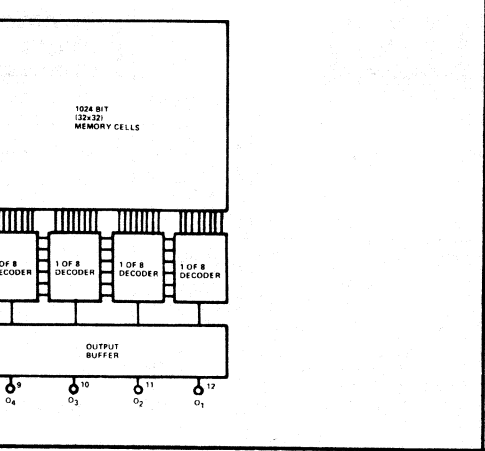
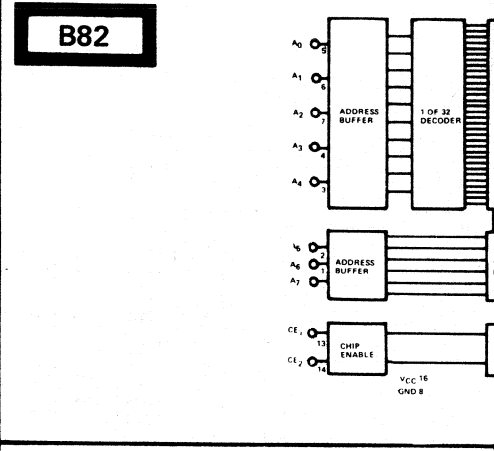
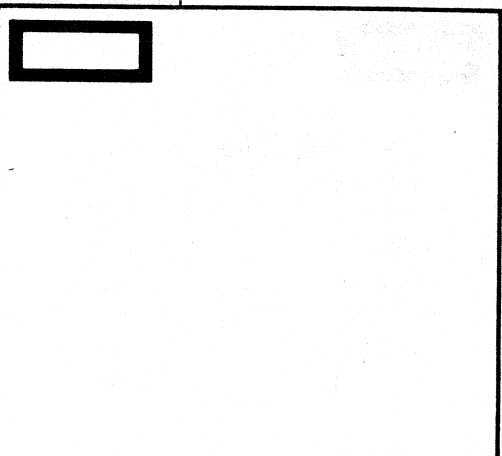
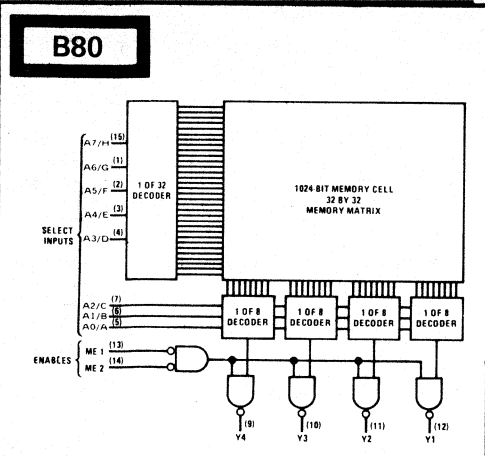
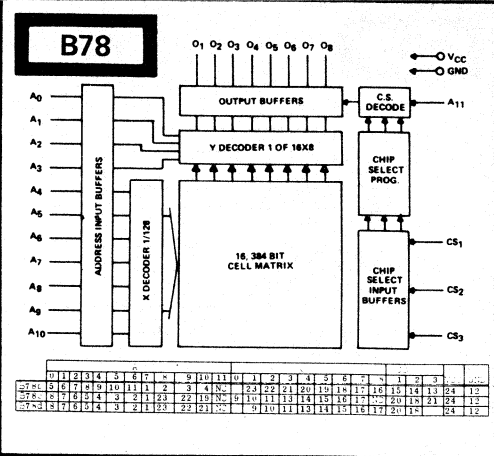


B71



22. LOGIC/BLOCK DRAWINGS

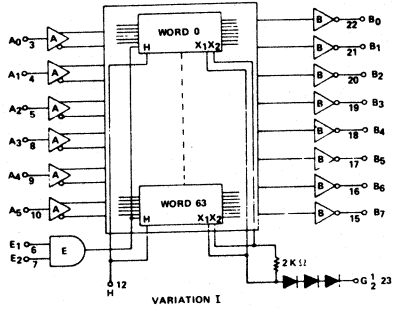
IN DRAWING NUMBER SEQUENCE



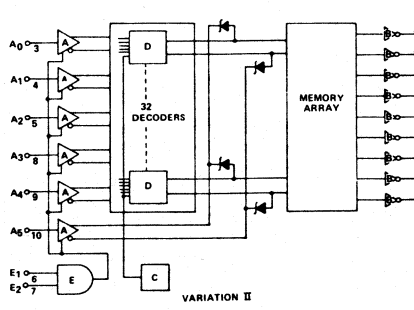
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

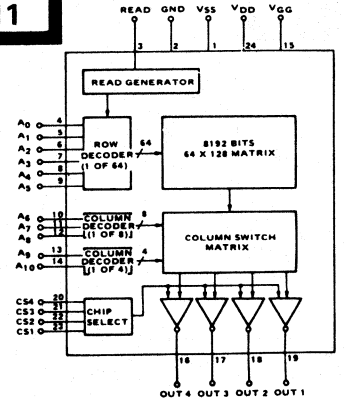
B105



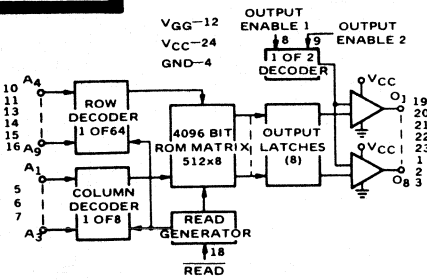
CIRCUIT VARIATION
B105 I and II



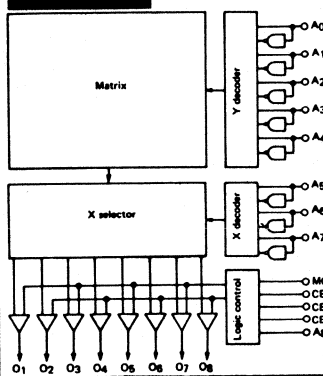
B111



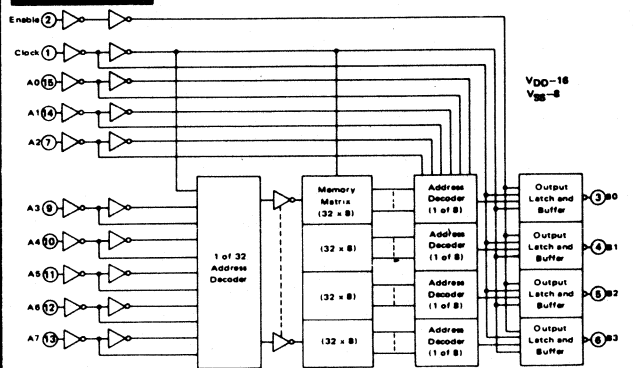
B112



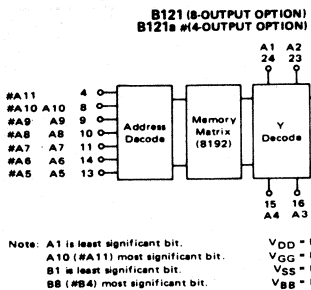
B119



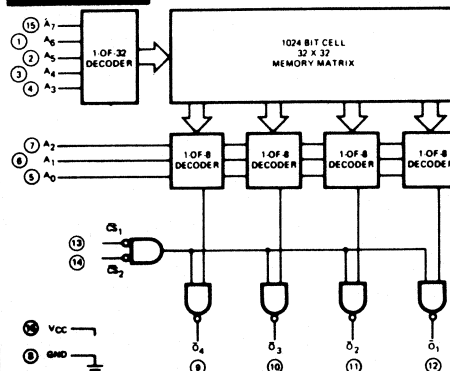
B120



B121

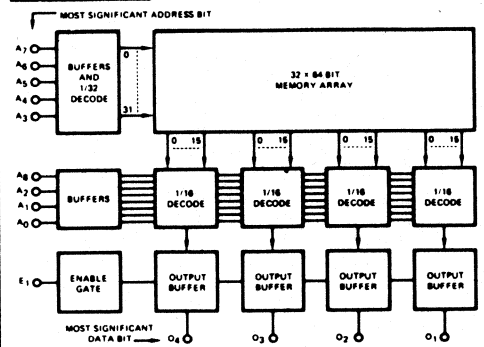


B123

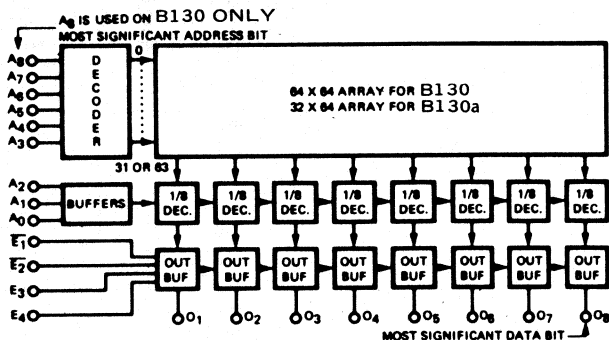


B129

See PN 16b



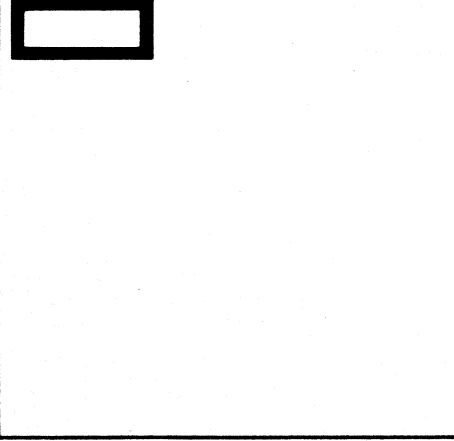
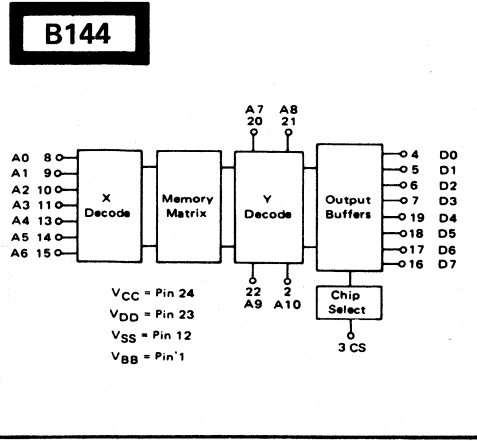
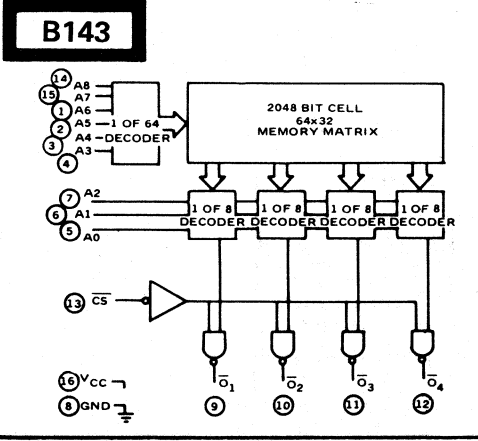
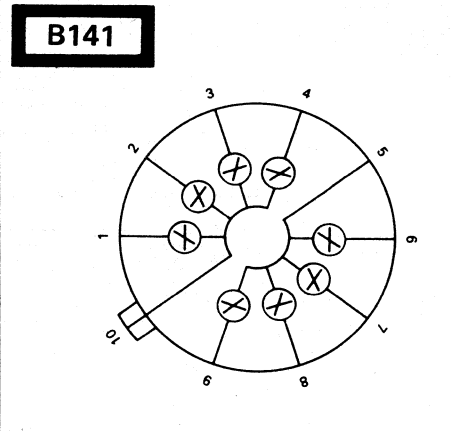
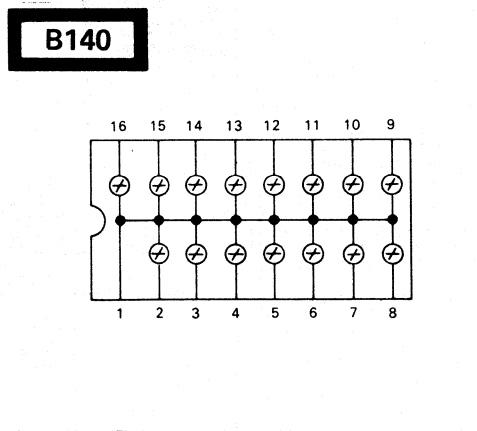
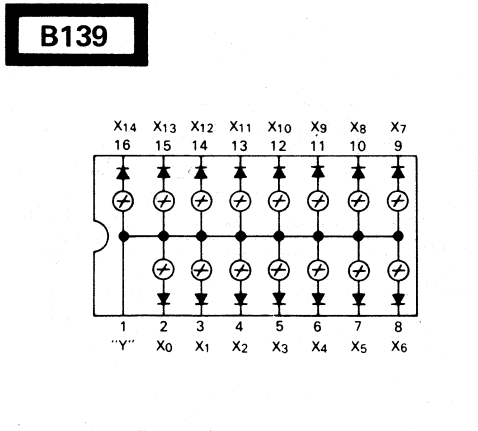
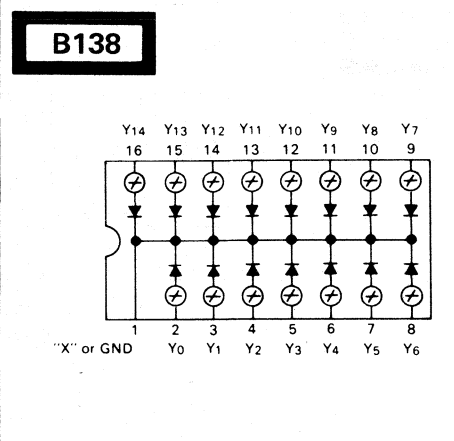
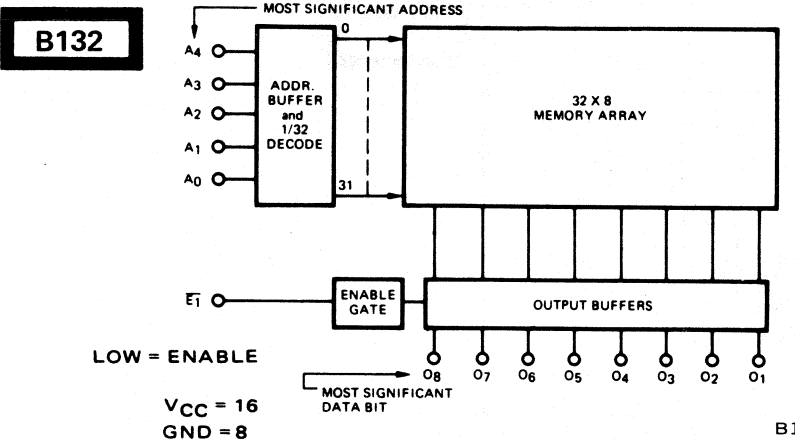
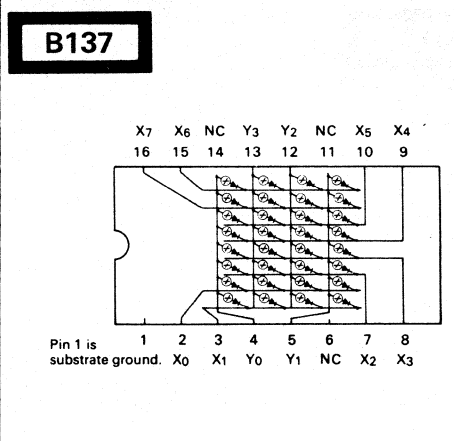
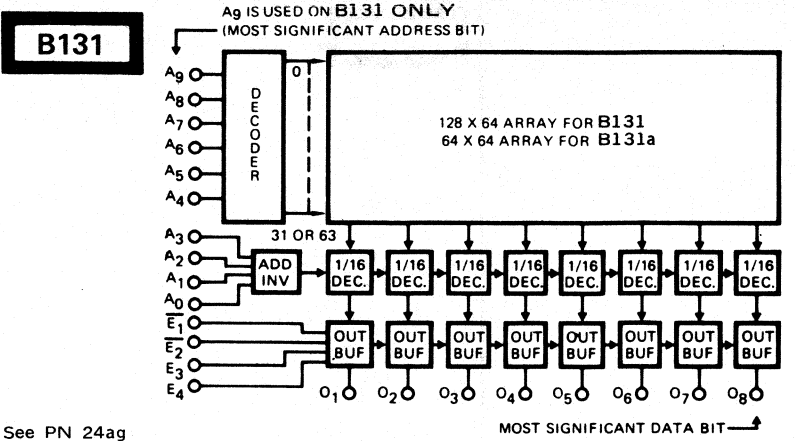
B130



See PN 24ap

22. LOGIC/BLOCK DRAWINGS

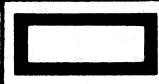
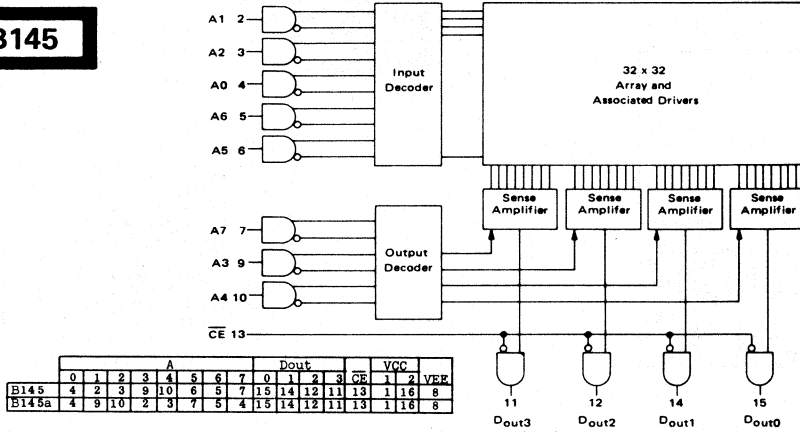
IN DRAWING NUMBER SEQUENCE



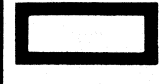
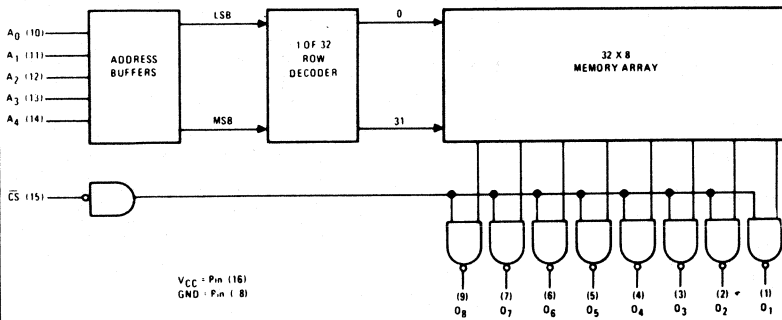
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

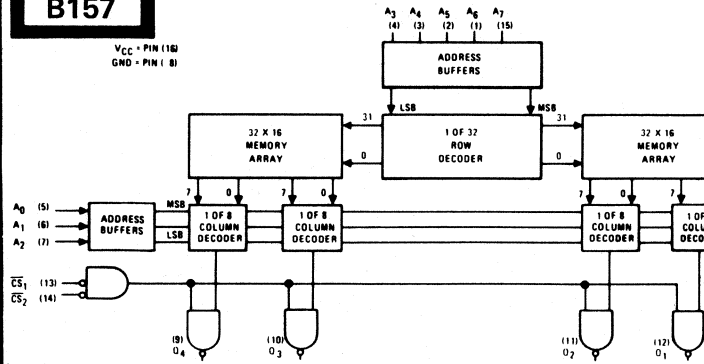
B145



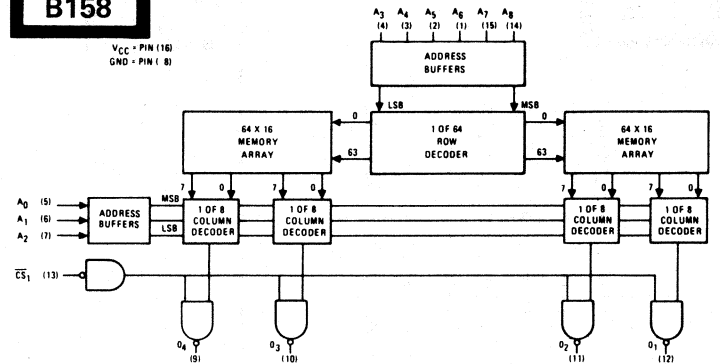
B156



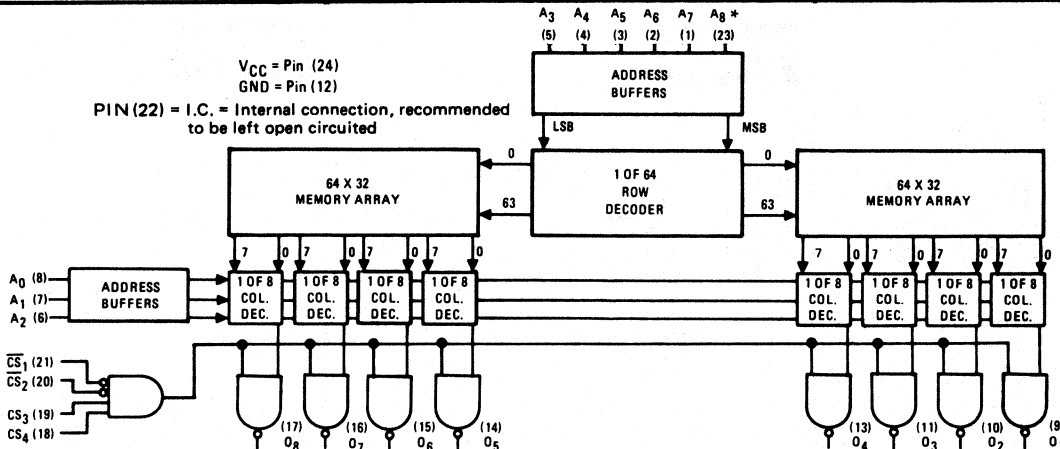
B157



B158



B159

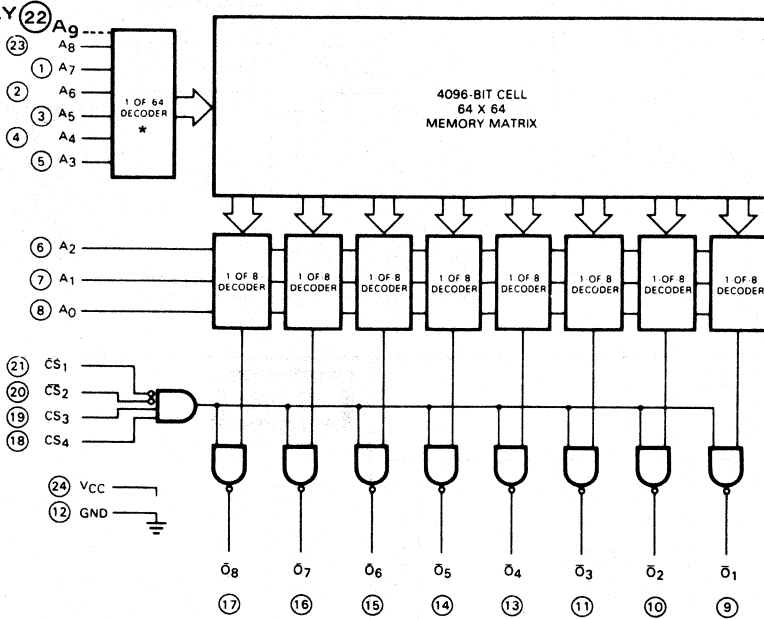


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

B161

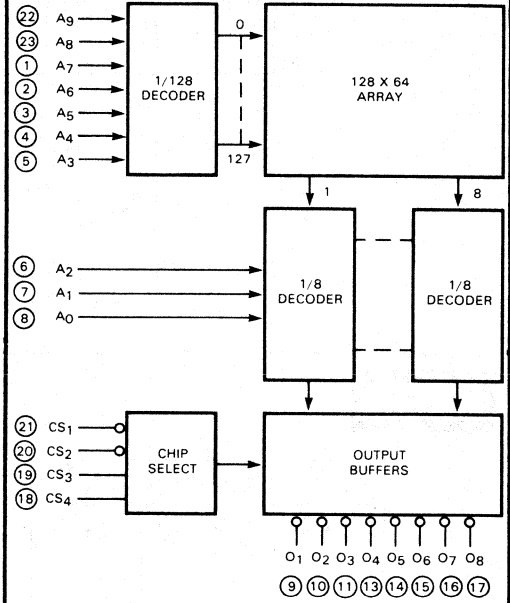
B161a ONLY



FOR B161a ONLY: 8192 BIT CELL MEMORY MATRIX 128x64

○ = Pin Numbers * B161a DECODER 1 OF 128
PIN 22=A9.

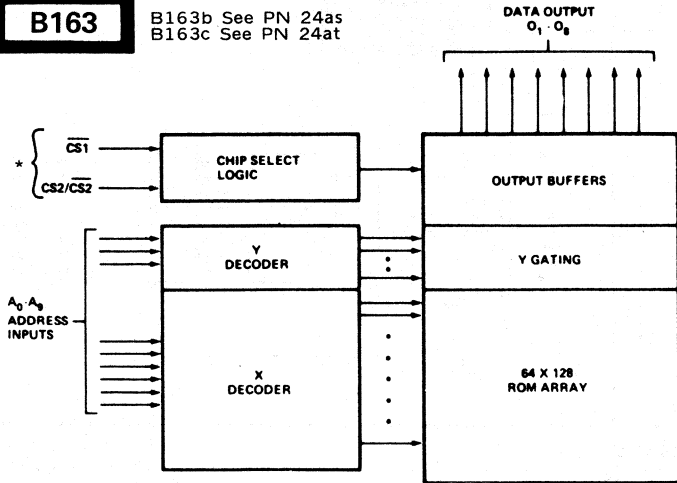
B162



V_{CC} = Pin 24
GND = Pin 12

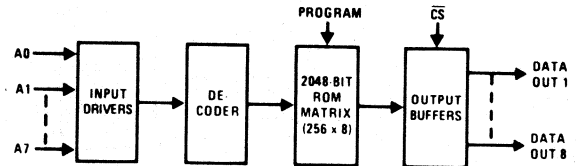
B163

B163b See PN 24as
B163c See PN 24at



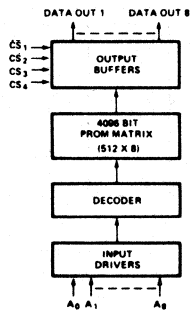
B170

See PN 24ay



Note: In the read mode a logic "1" at the address inputs and data outputs is a high and logic "0" is a low.

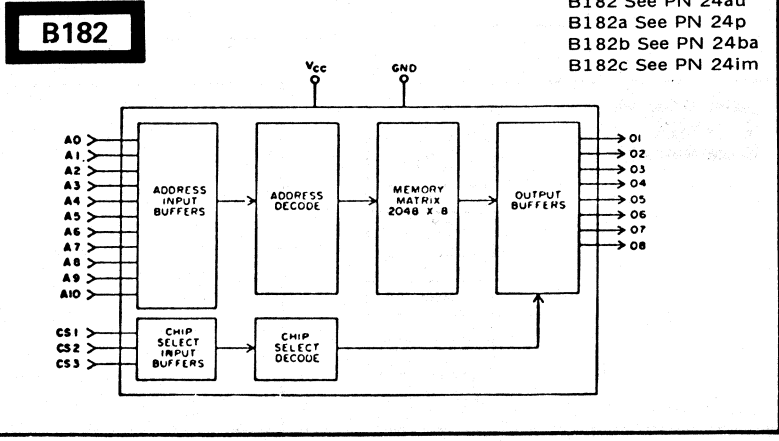
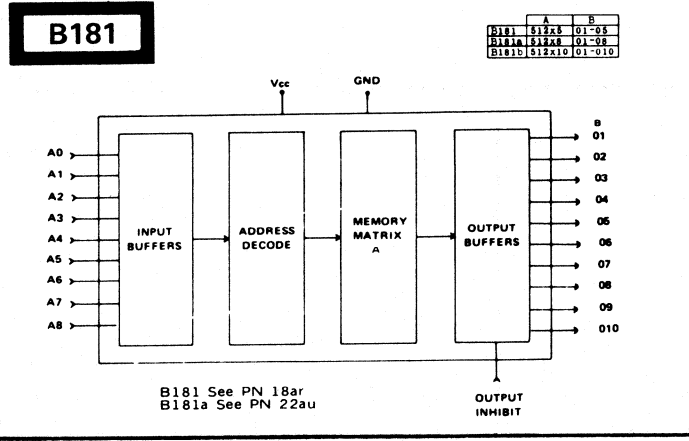
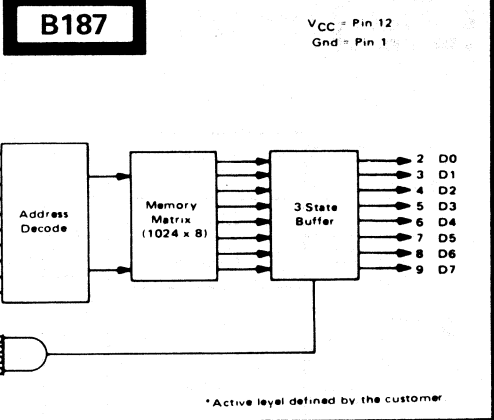
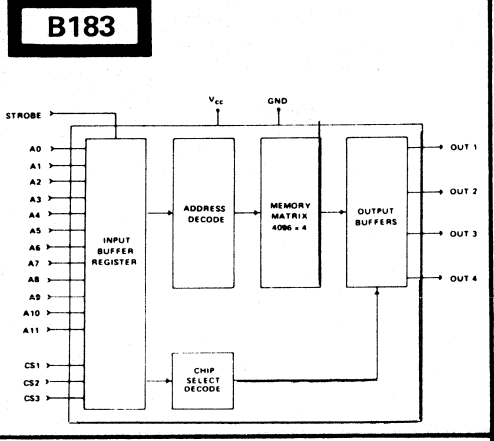
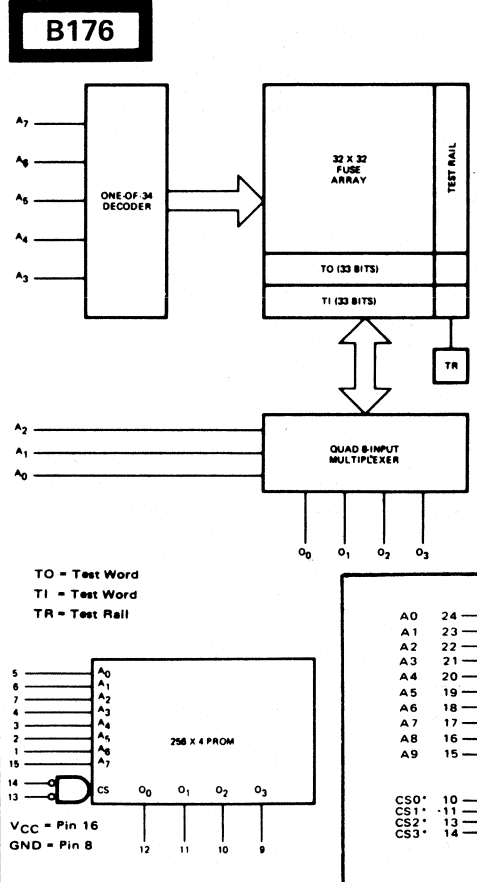
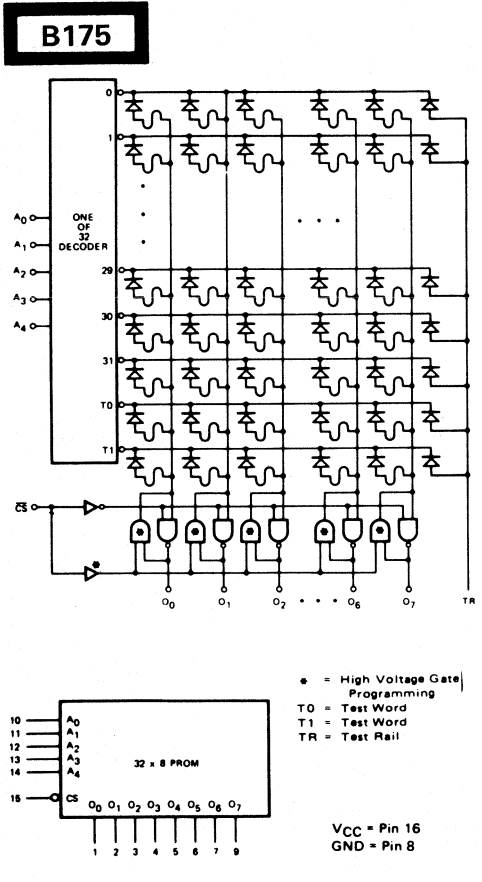
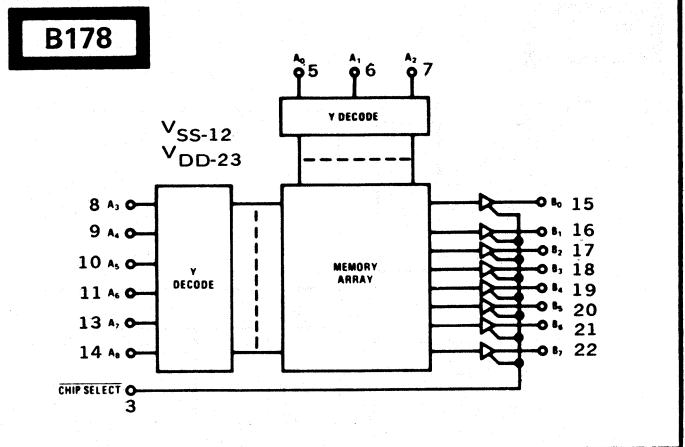
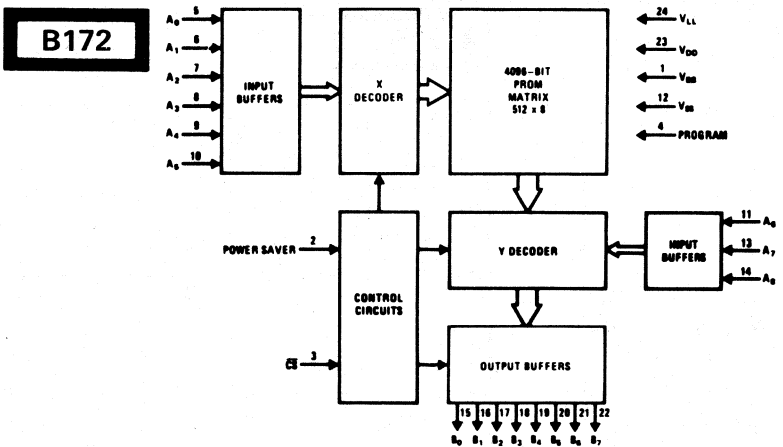
B165



See PN 24aw

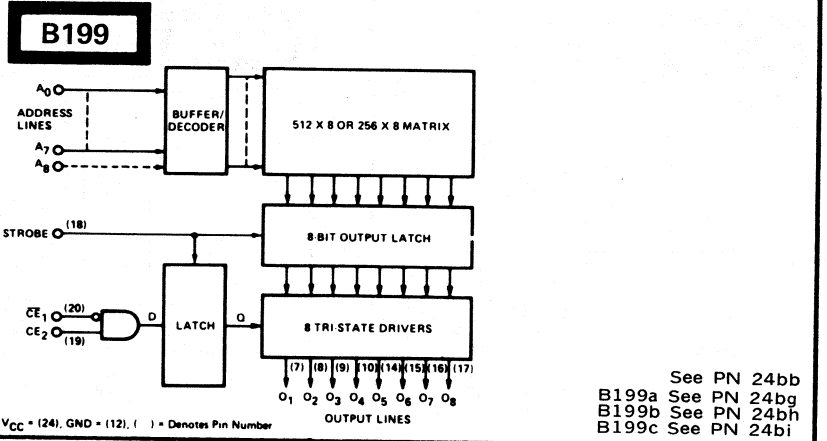
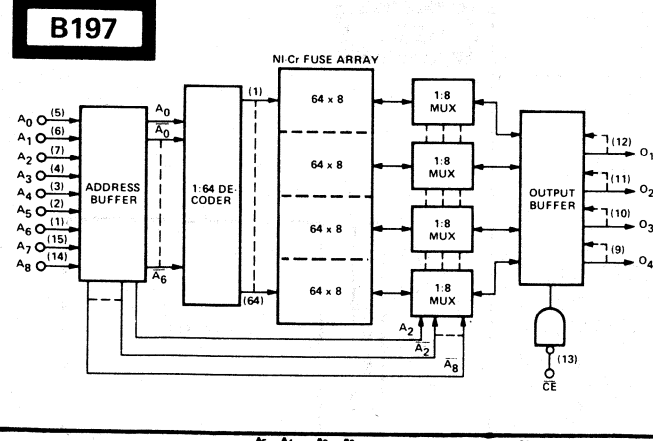
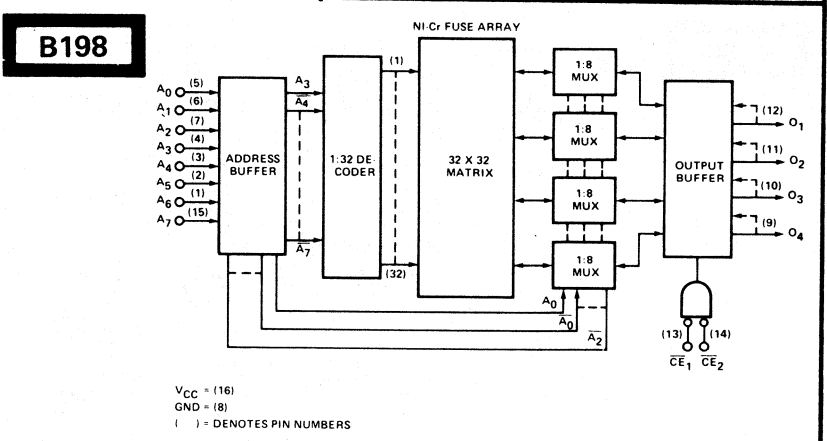
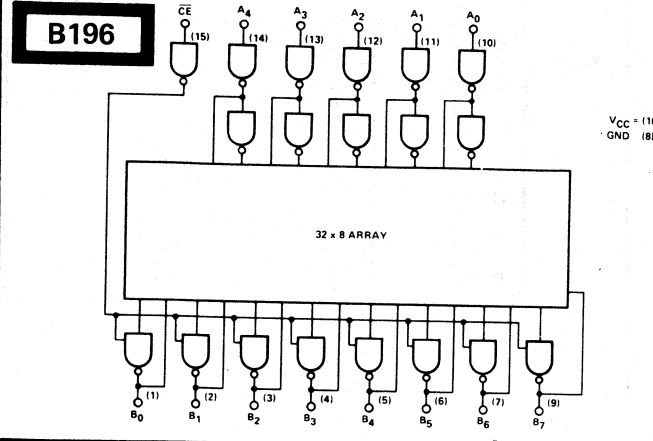
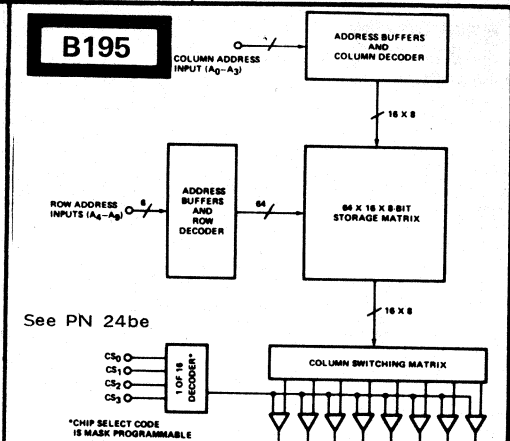
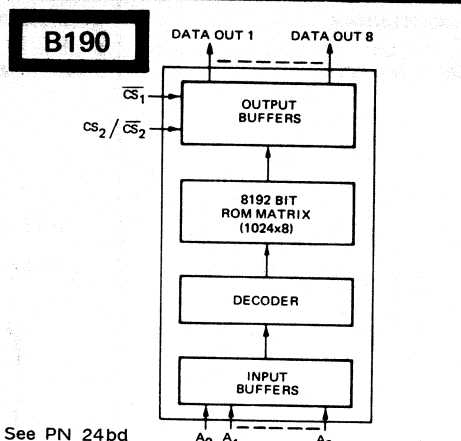
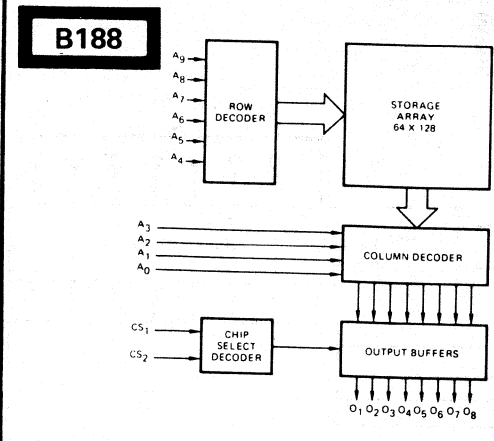
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

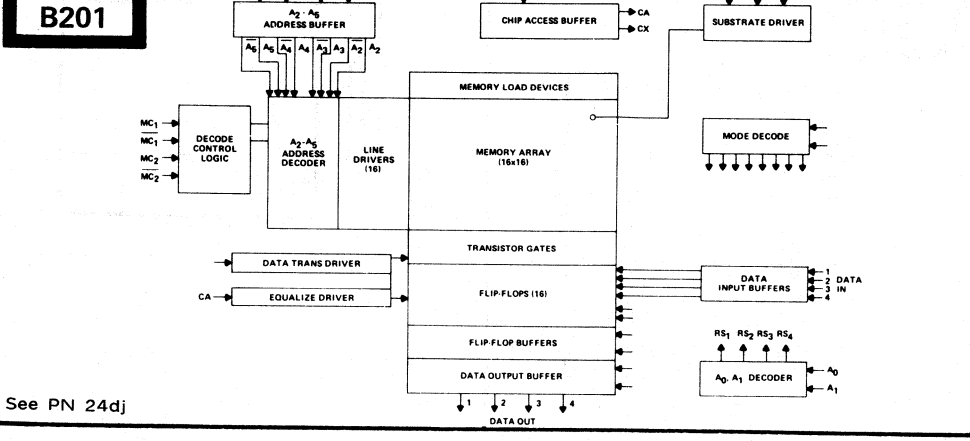


22. LOGIC/BLOCK DRAWINGS

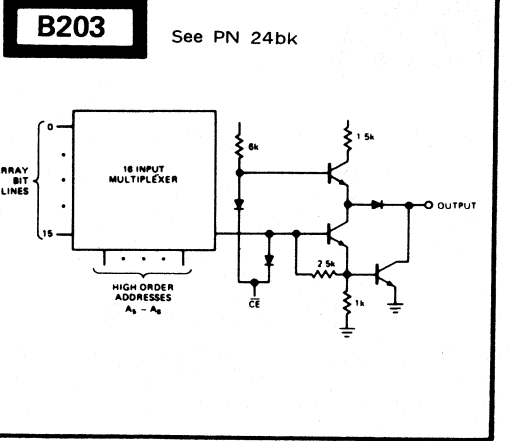
IN DRAWING NUMBER SEQUENCE



See PN 24bb
B199a See PN 24bg
B199b See PN 24bh
B199c See PN 24bi



See PN 24dj

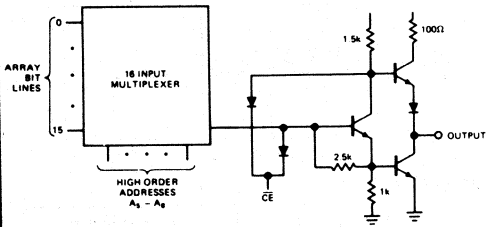


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

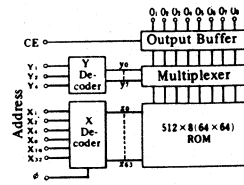
B204

See PN 16cd



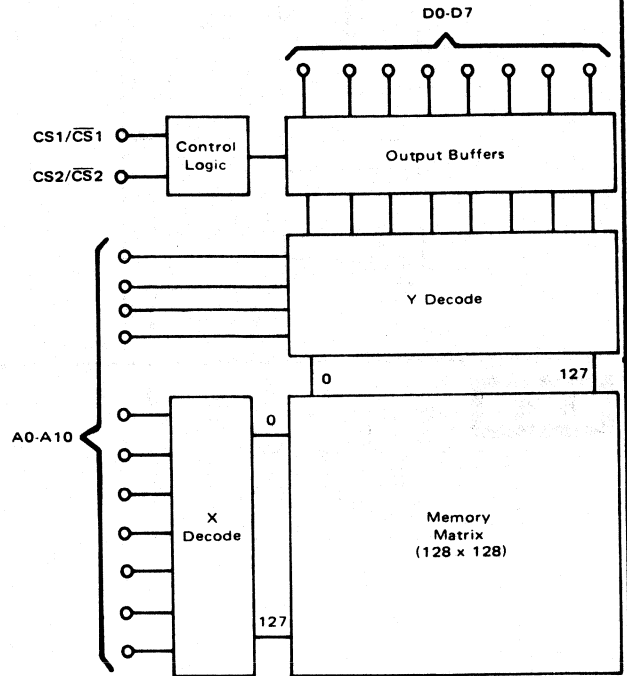
B205

See PN 24bk

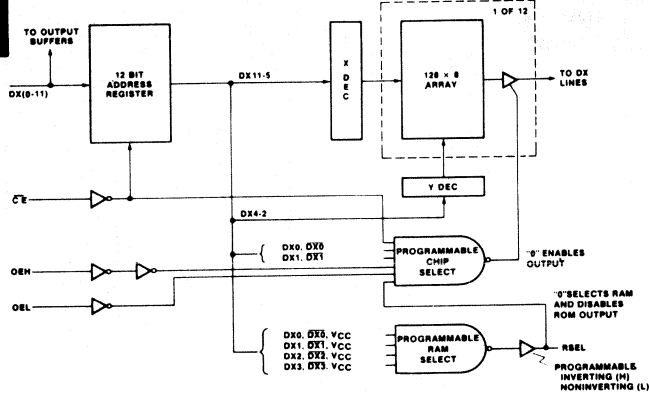


B211

See PN 24bm



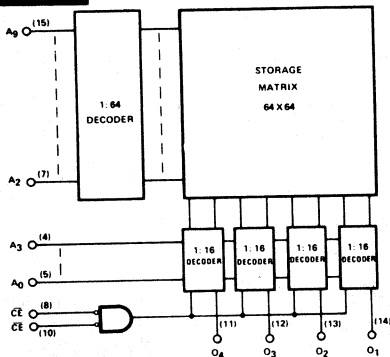
B206



See PN 18 aw

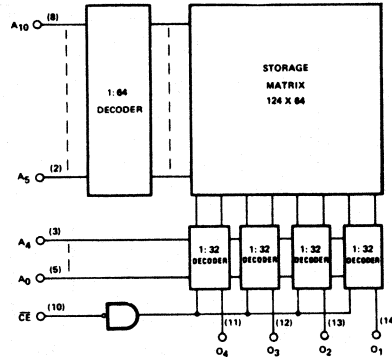
B212

See PN 18av

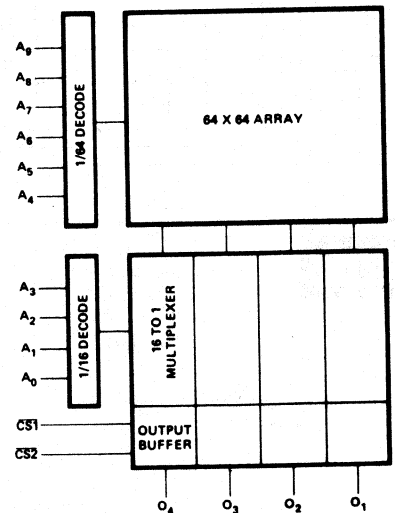


B213

See PN 18av

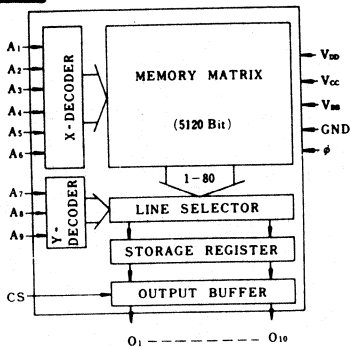


B214



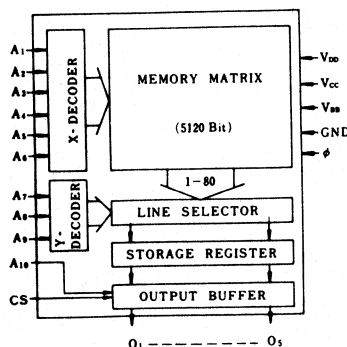
B215

See PN 28j



B216

See PN 28K

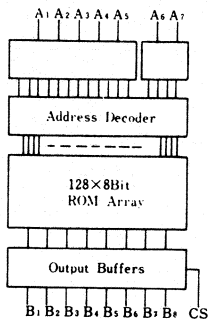


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

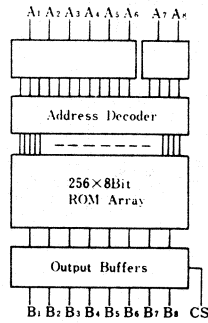
B217

See PN 24bn

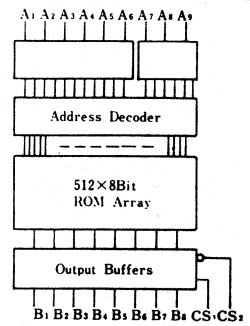


B218

See PN 24bo

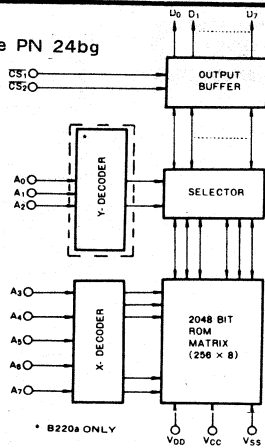


B219



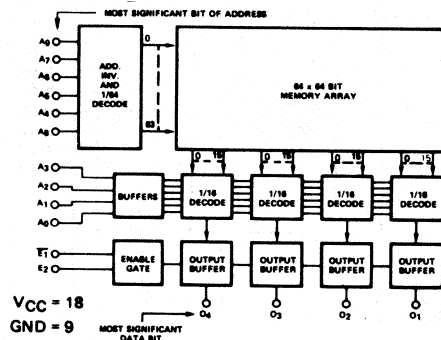
B220

See PN 24bg



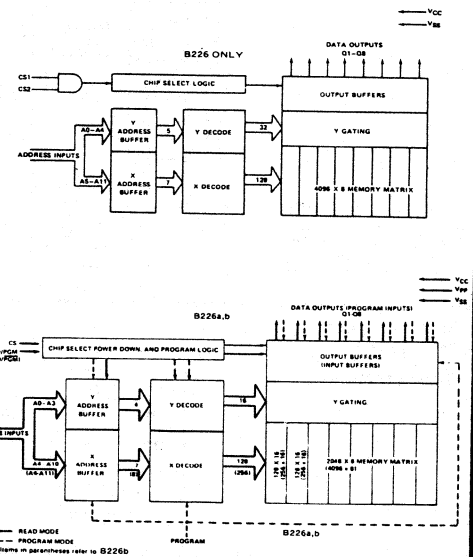
B222

222a PN 18ay
B222 See PN 18ax



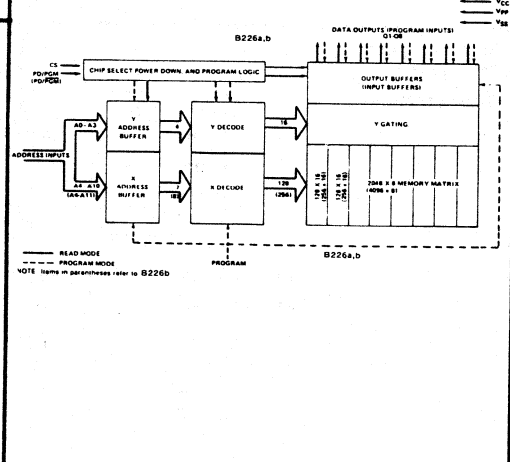
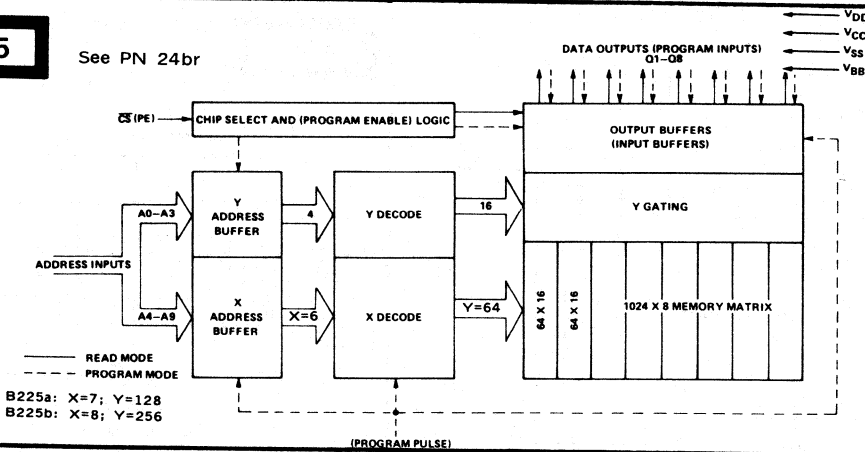
B226

B226 See PN 24bs
B226a See PN 24bt
B226b See PN 24ba

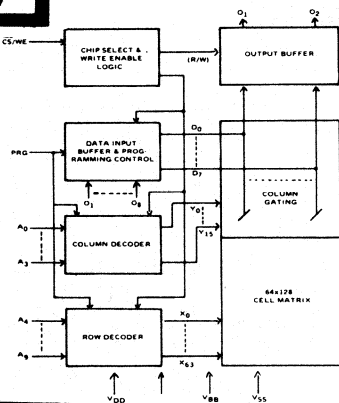


B225

See PN 24br



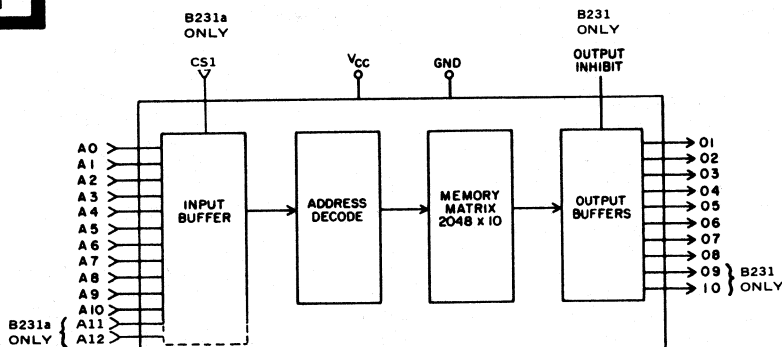
B227



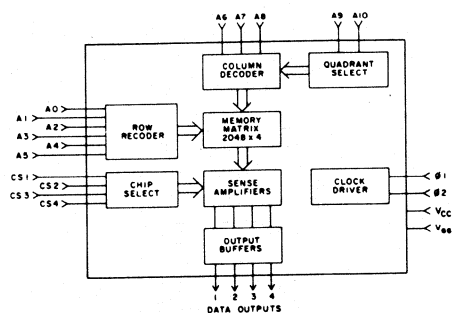
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

B231

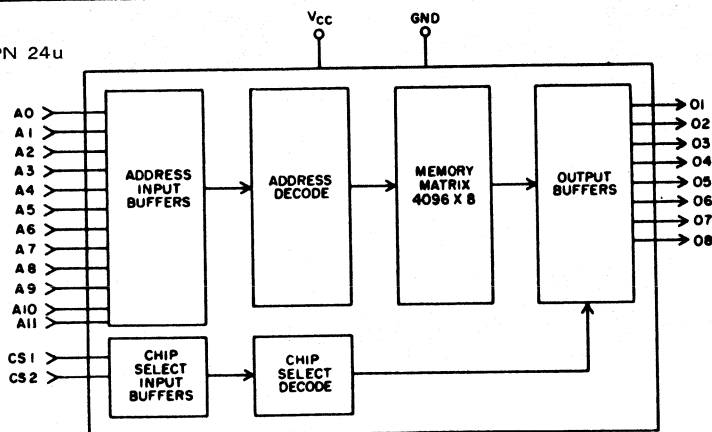


B234



B232

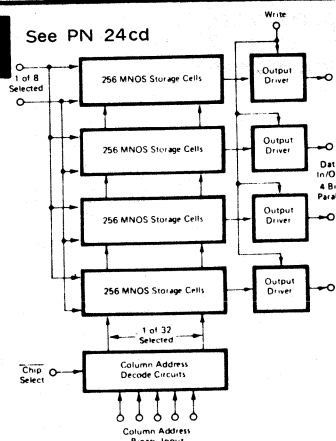
See PN 24u



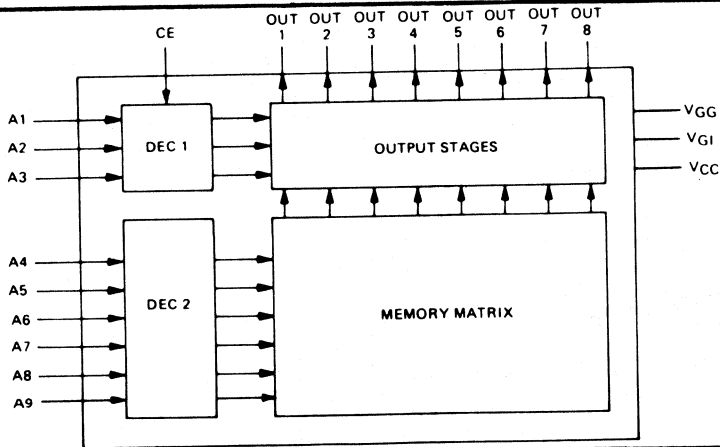
B233 See PN 24by
B233a See PN16ca
B233b See PN 24bz
B233c See PN 24ca
B233d See PN 24cb

B235

See PN 24cd

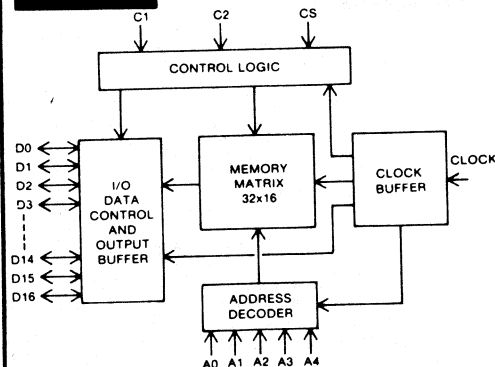


B233



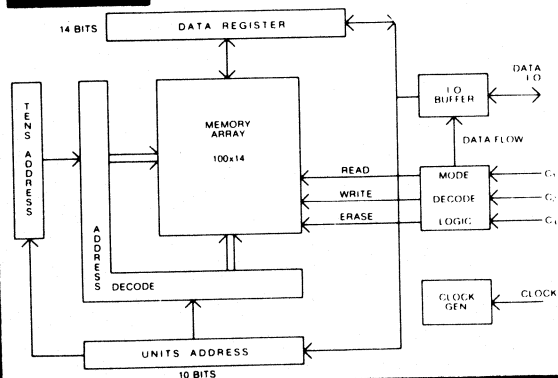
B237

B237 See PN 28m



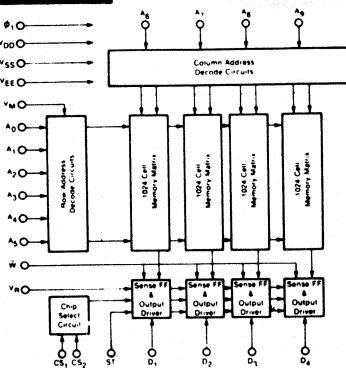
B236

B236a: NO PIN CONNECTIONS SPECIFIED



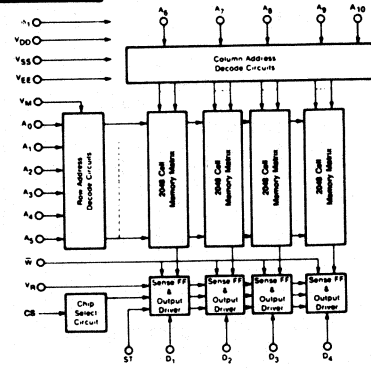
B238

B238 See PN 24ce, cf



B239

B239 See 24cg

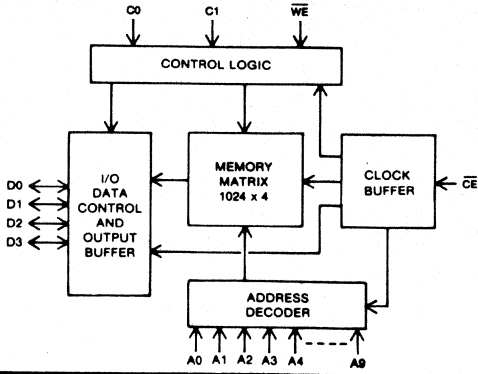


22. LOGIC/BLOCK DRAWINGS

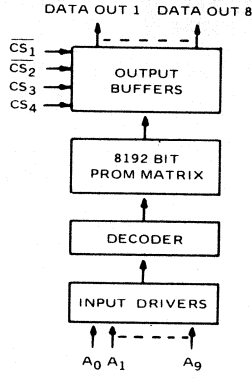
IN DRAWING NUMBER SEQUENCE

B240

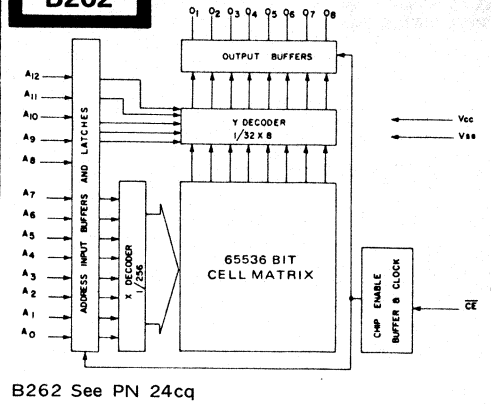
B240 See PN 22av



B246

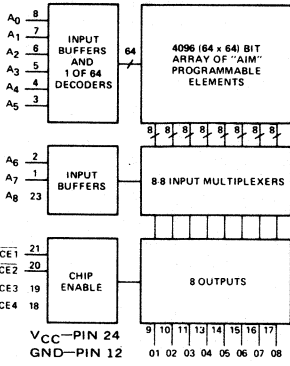


B262

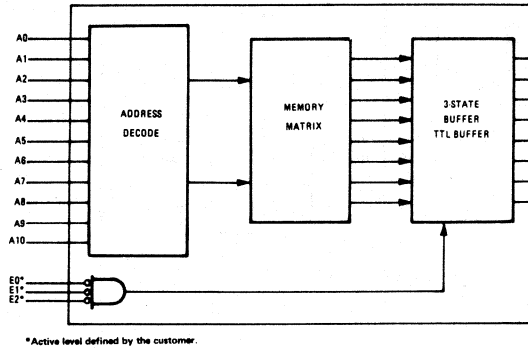


B262 See PN 24cq

B250



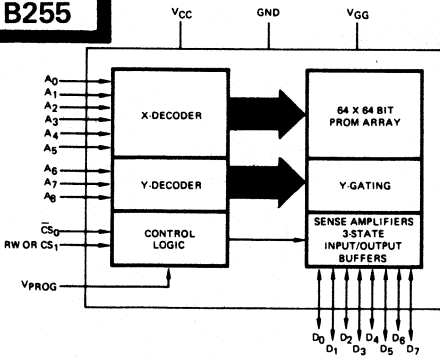
B254



B254 See PN 24ci
B254a See PN 24s
B254b See PN 24t
B254c See PN 24cj

*Active level defined by the customer.

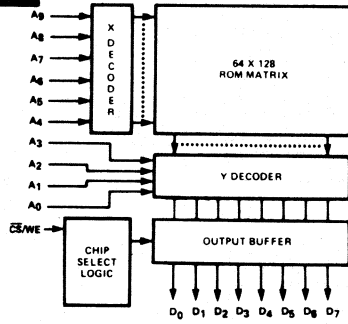
B255



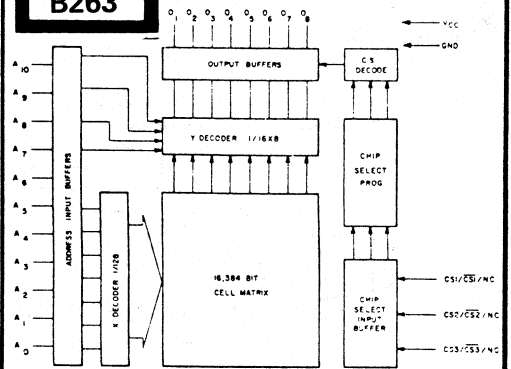
B255 See PN 24ck
B255 See PN 24cm

B256

B256 See PN 24cn
B256a See PN 24co



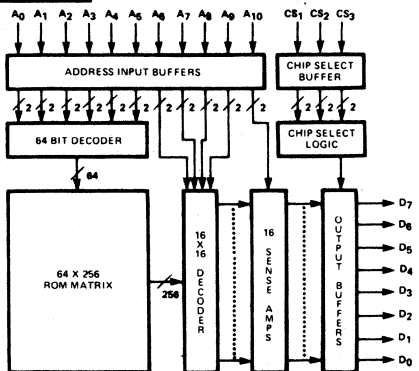
B263



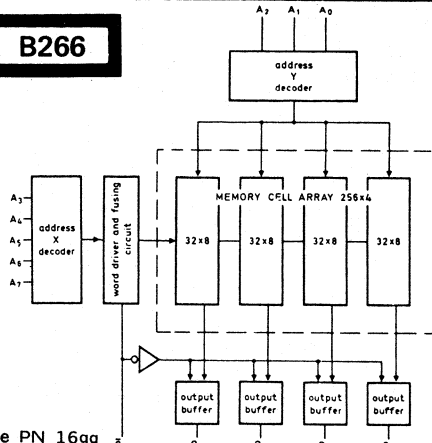
B263 See PN 24cr

B258

B258 See PN 24av



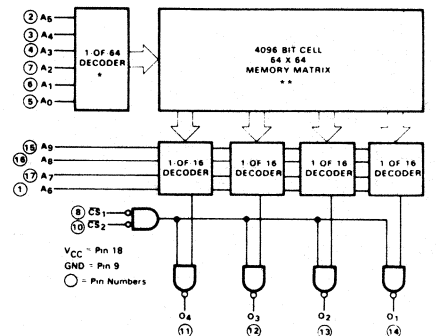
B266



See PN 16gg

B267

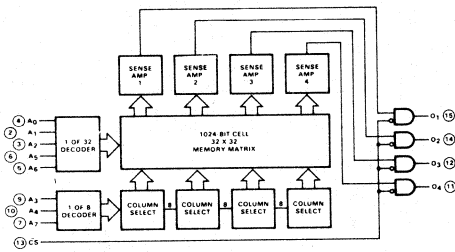
* B267a - 1 OF 128 DECODER
** B267a - 8192-BIT CELL 128x64



22. LOGIC/BLOCK DRAWINGS

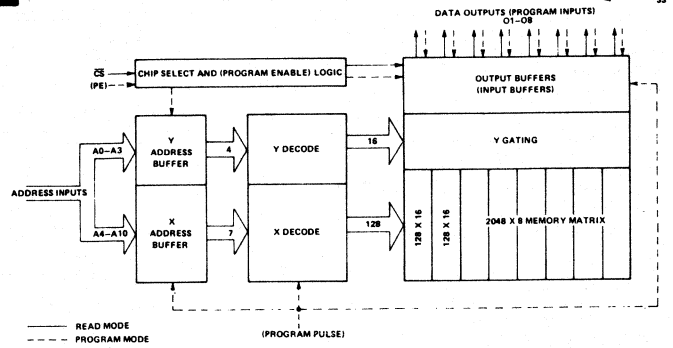
IN DRAWING NUMBER SEQUENCE

B268



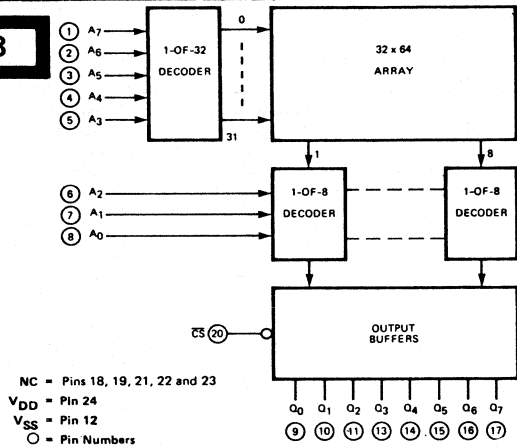
V_{CP} GND (Read only) - Pin 1
 V_{CP} +12 V (Programming only) - Pin 1
 V_{CC} GND Pin 16
 V_{EE} Pin 8
 Pin Numbers

B269



See PN 24cs

B273

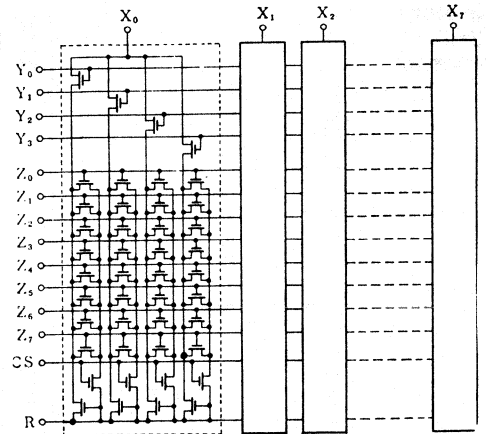


NC = Pins 18, 19, 21, 22 and 23
 V_{DD} = Pin 24
 V_{SS} = Pin 12
 Pin Numbers

B274

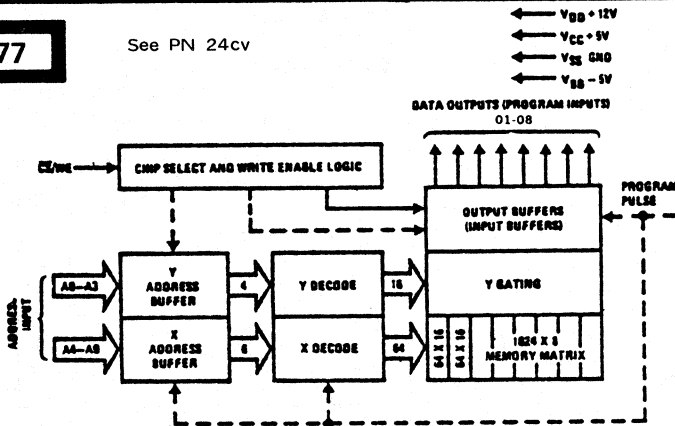
See PN 24cu

* CONNECT SUBSTRATE EXTERNALLY TO GROUND



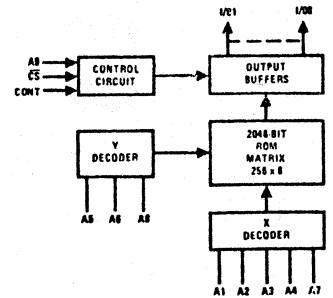
B277

See PN 24cv



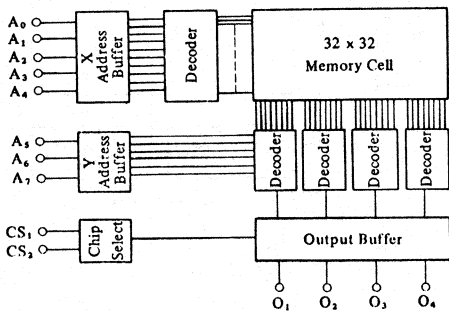
B279

B279 See PN 16b



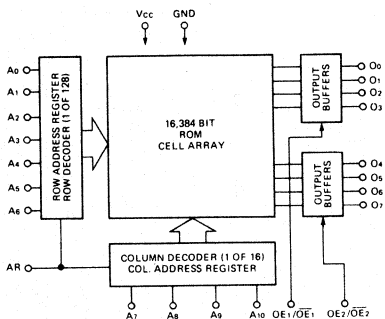
B282

B282 See PN 24cc



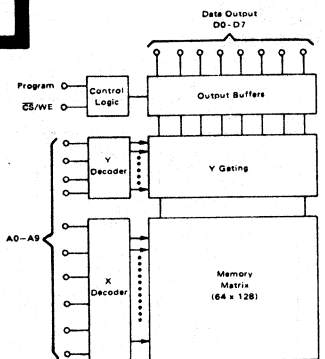
B287

B287 See PN 24db



B288

B288 See PN 24dc

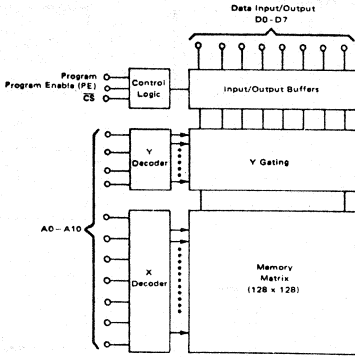


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

B289

B289 See PN 24dd
B289a See PN 24de



B290

* Active level defined by the customer

VCC = Pin 24
Gnd = Pin 12

B291

B291 See PN 24df
B291a See PN 24dg

* Active level defined by the user.

VCC = Pin 24
VSS = Pin 12

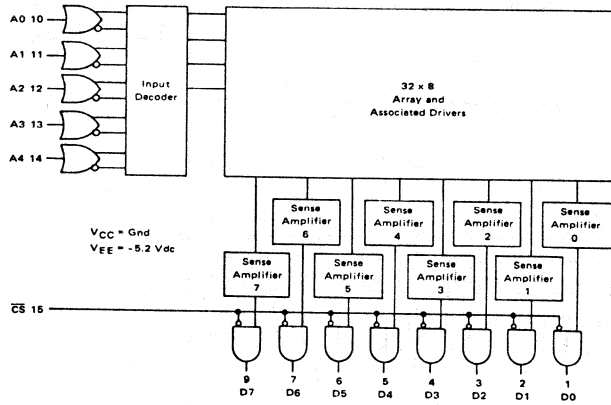
B292

* Active level defined by the user.

VCC = Pin 24
Gnd = Pin 12

B293

B293 See PN 16ck

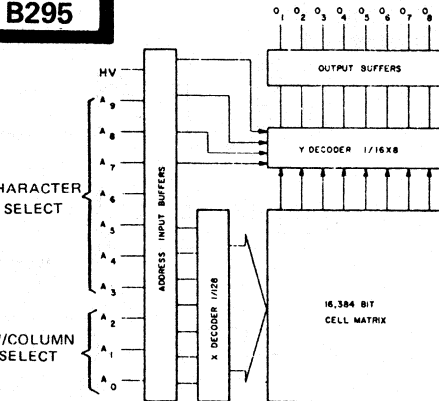


B295

CHARACTER SELECT
ROW/COLUMN SELECT

B296

B296a See PN 24di
B296b See PN 24dj

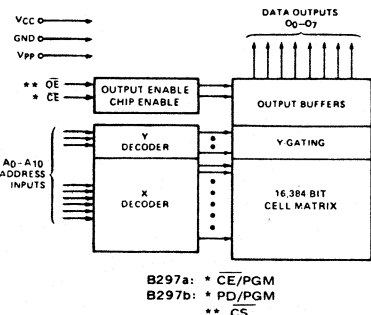


B297

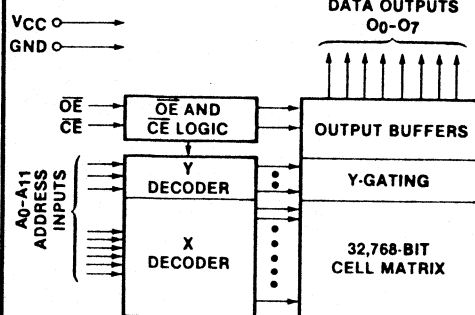
B297 See PN 24dk

B299

B299 See PN 24dn

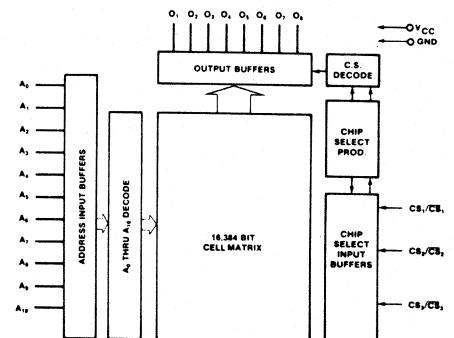


B297a: * CE/PGM
B297b: * PD/PGM
** CS



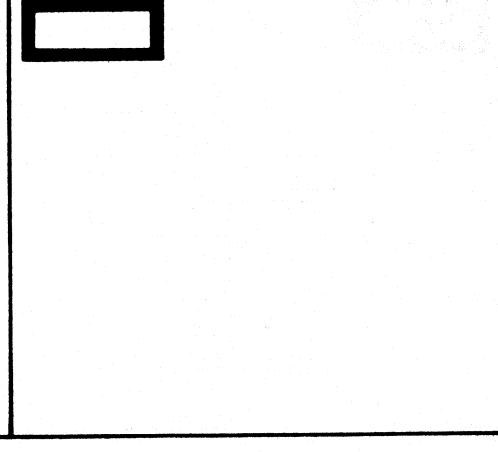
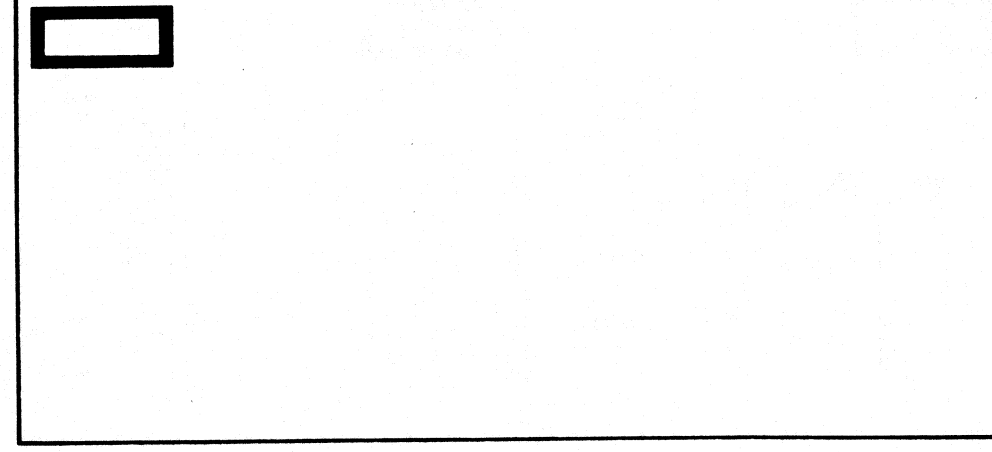
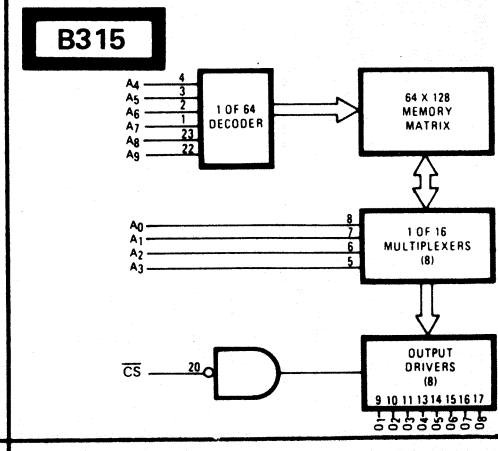
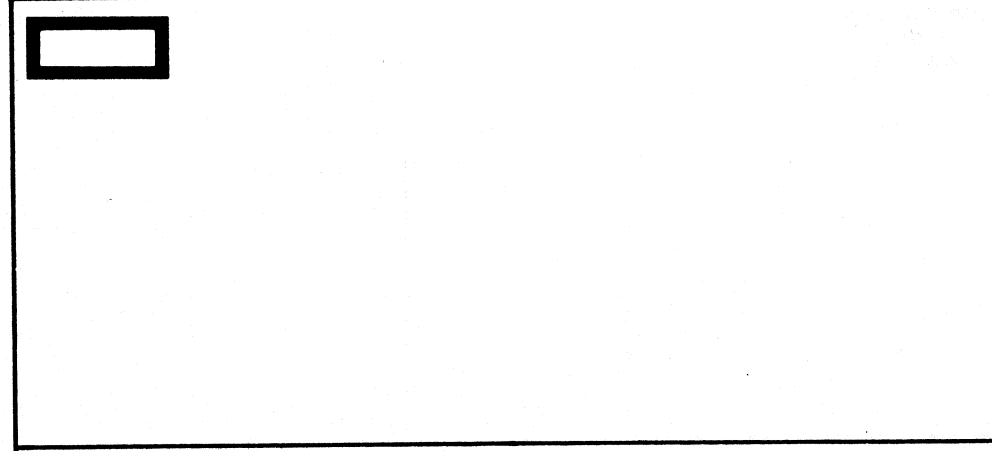
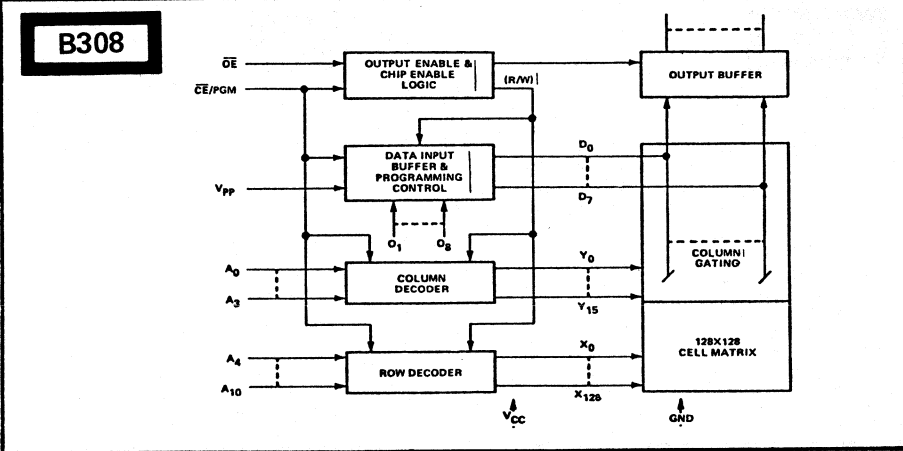
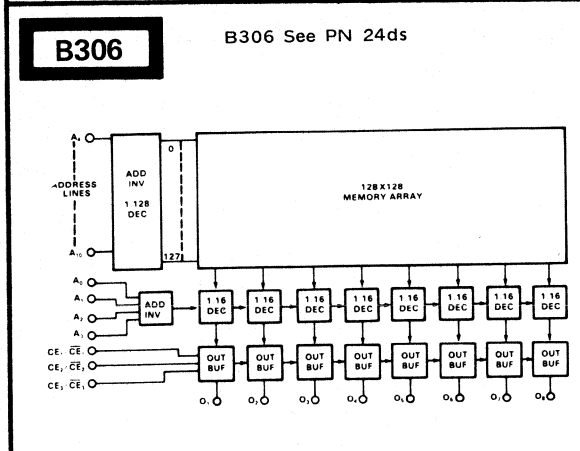
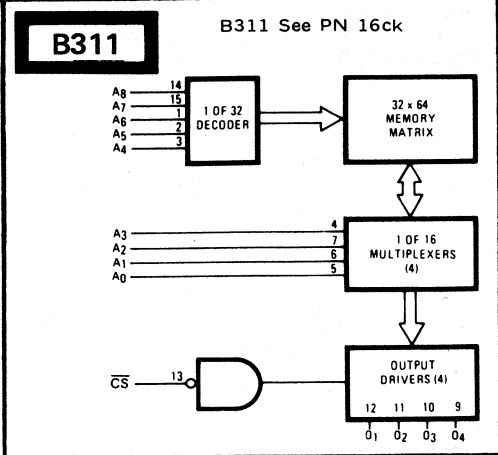
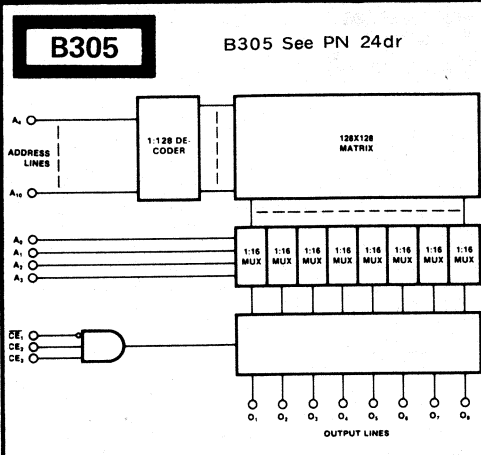
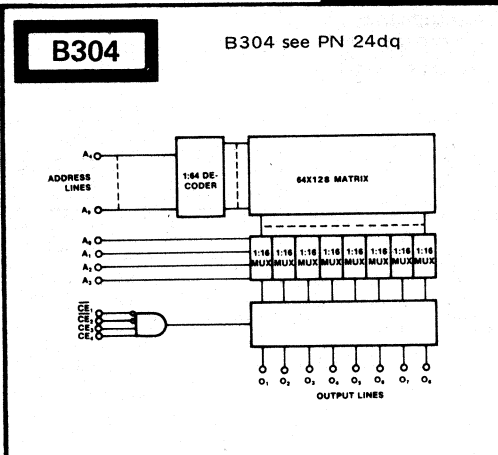
B302

B302 See PN 24do



22. LOGIC/BLOCK DRAWINGS

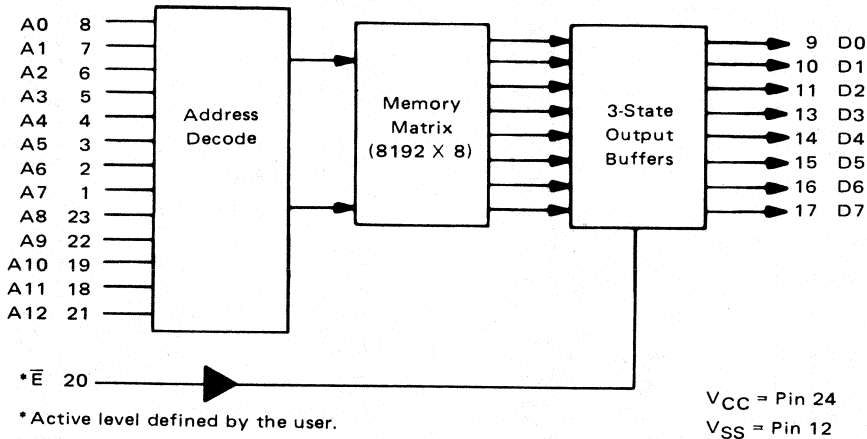
IN DRAWING NUMBER SEQUENCE



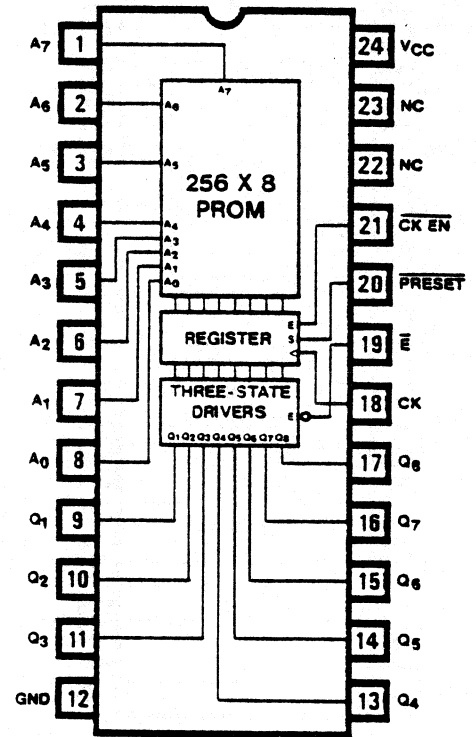
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

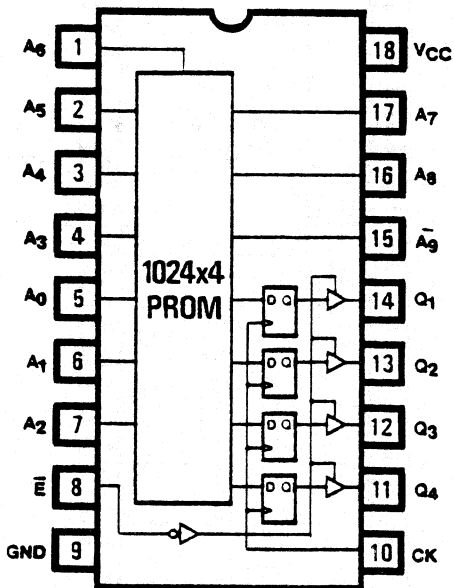
B328



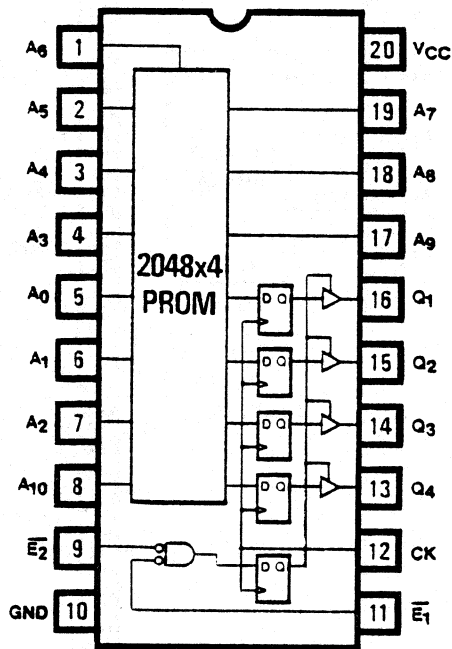
B329



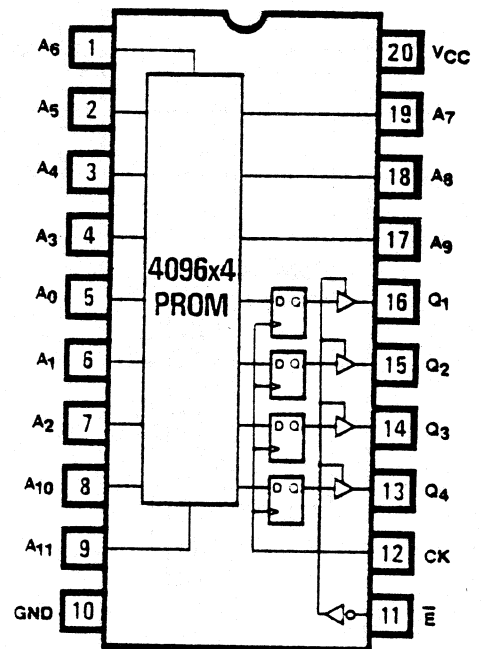
B330



B331



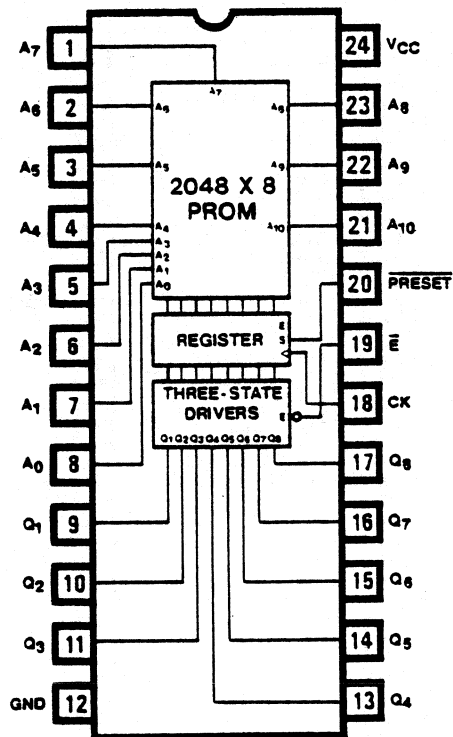
B332



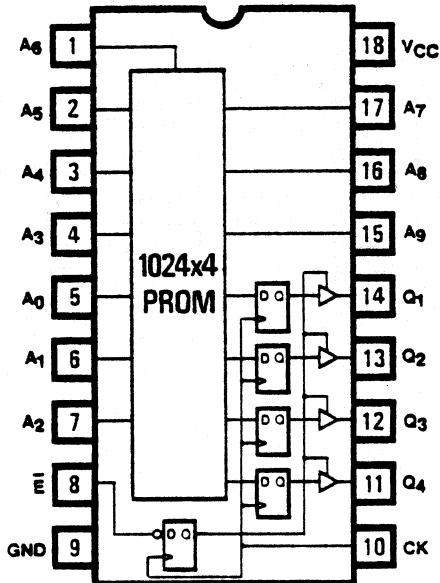
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

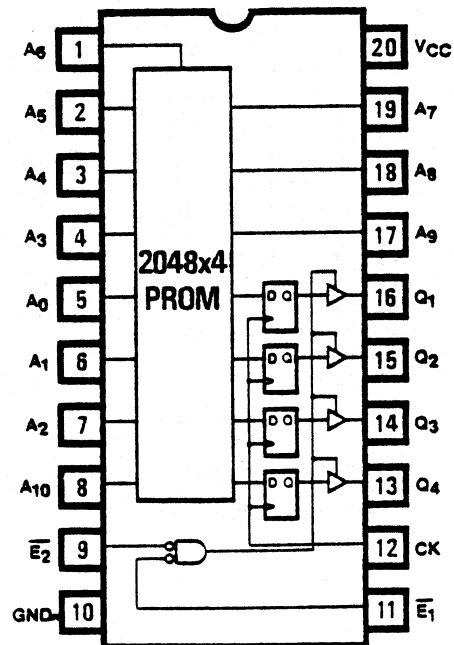
B333



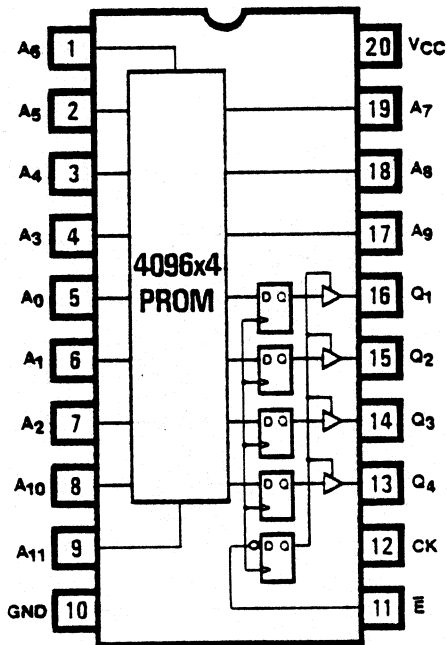
B334



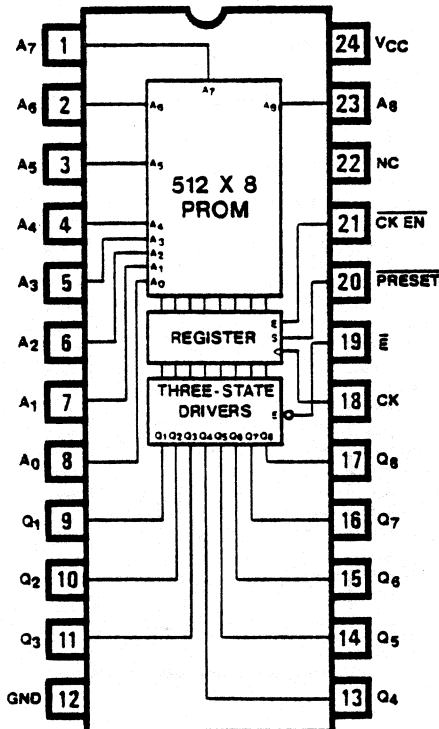
B335



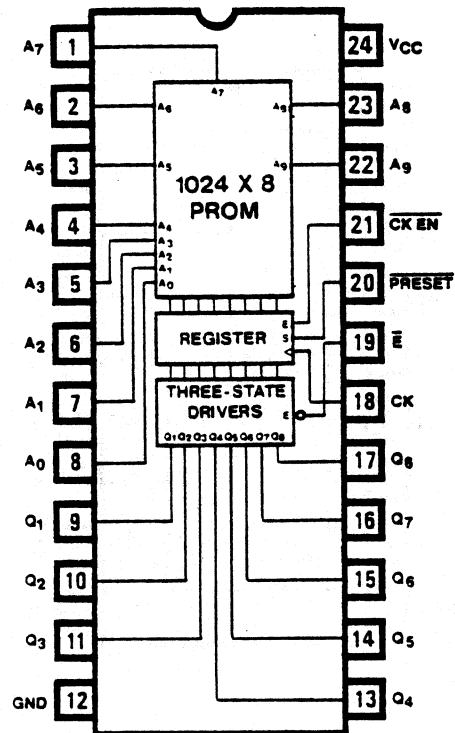
B336



B337



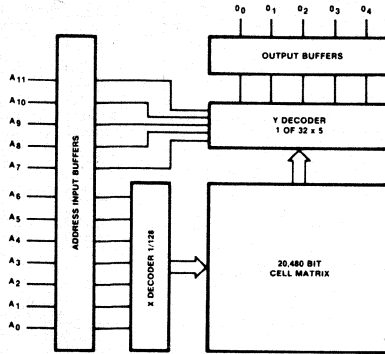
B338



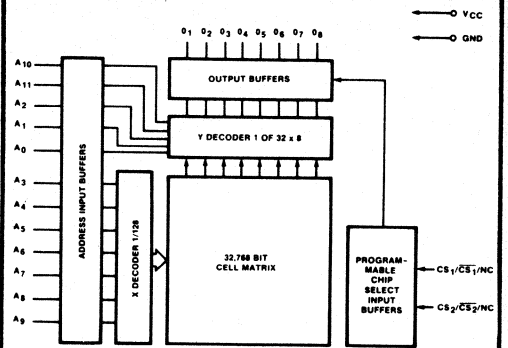
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

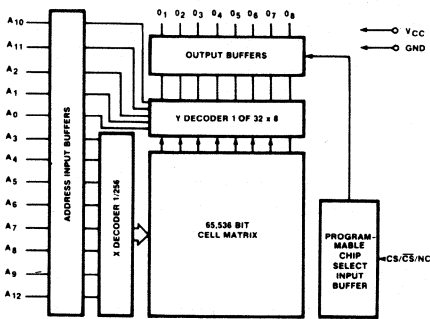
B349



B350

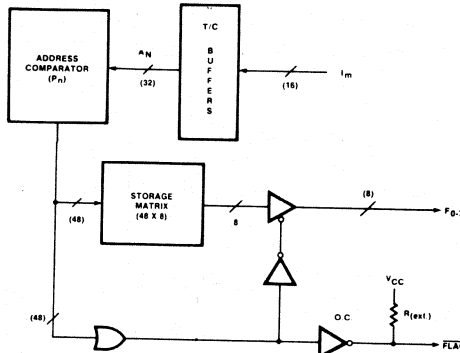


B351



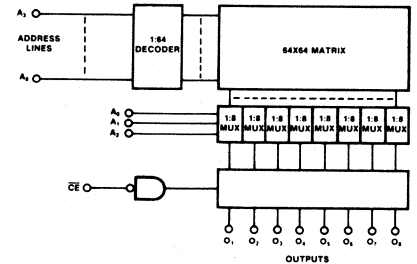
B352

B352 See PN 28q

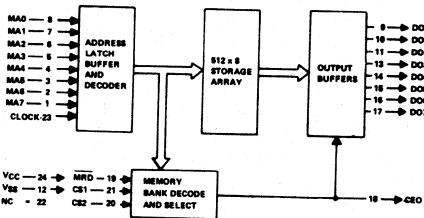


B353

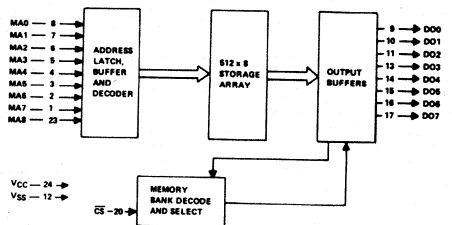
B353 See PN 20q



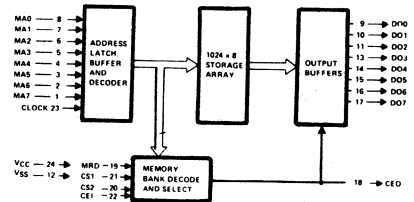
B354



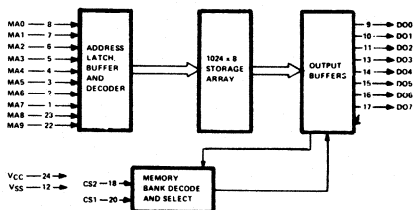
B355



B356



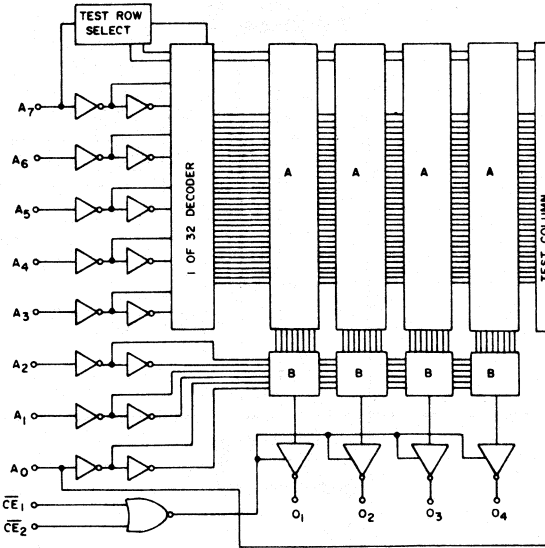
B357



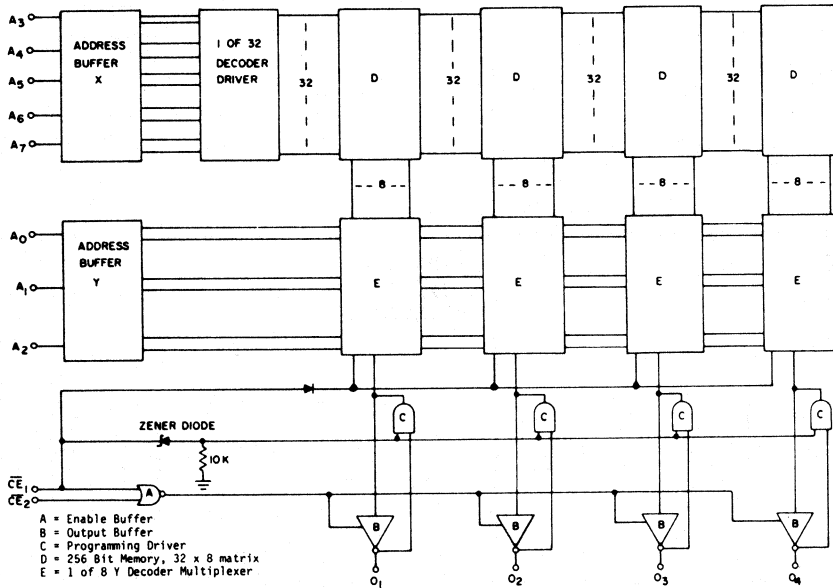
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

B358

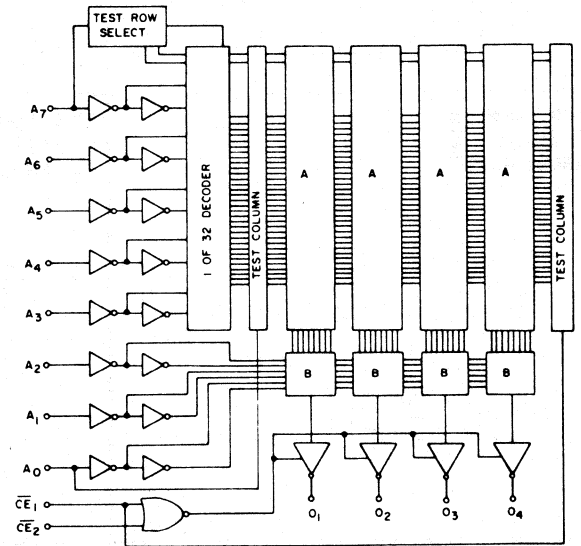


A = 32 x 8 Memory array
B = 1 of 8 Decoder
VARIATION I



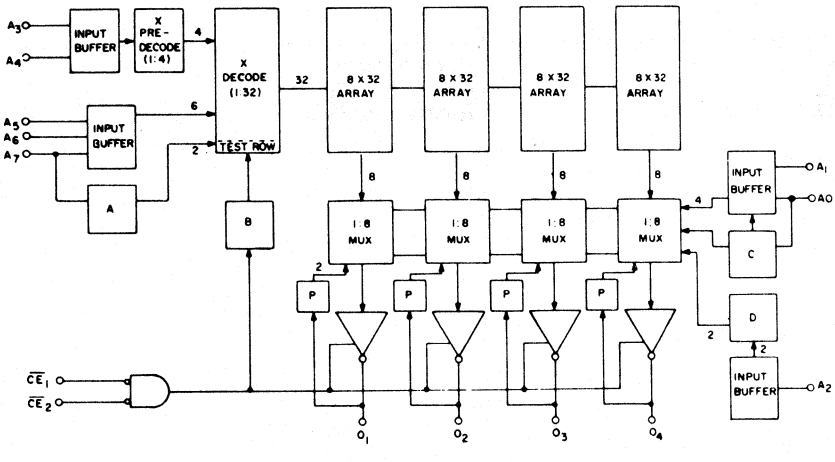
A = Enable Buffer
B = Output Buffer
C = Programming Driver
D = 256 Bit Memory, 32 x 8 matrix
E = 1 of 8 Y Decoder Multiplexer

VARIATION II



VARIATION IV

A = 32 x 8 Memory Array
B = 1 of 8 Decoder

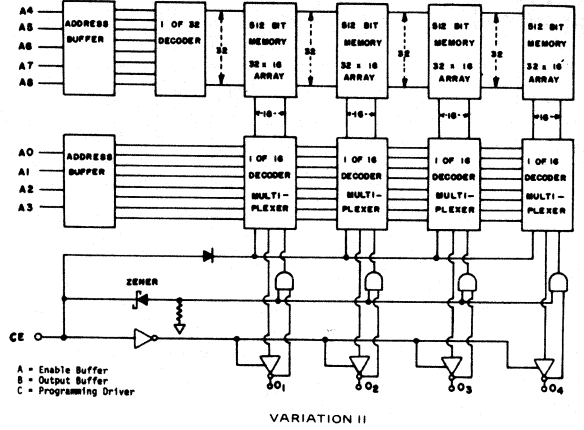
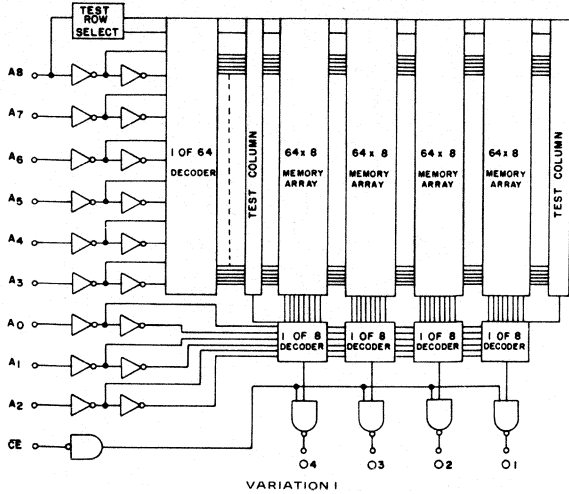


VARIATION III

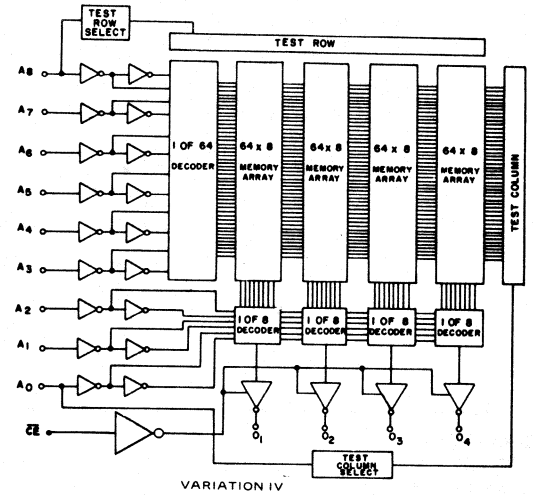
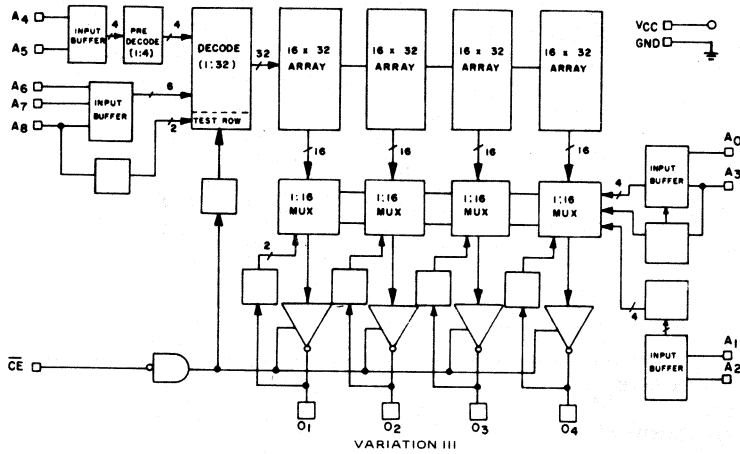
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

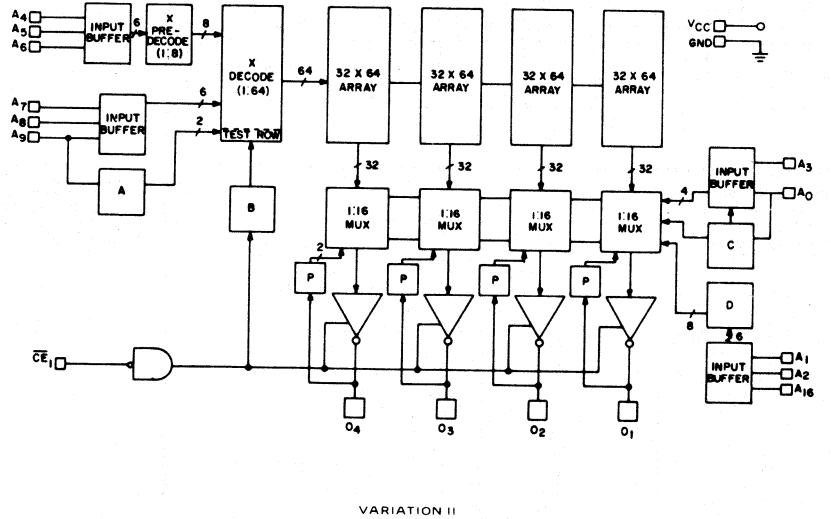
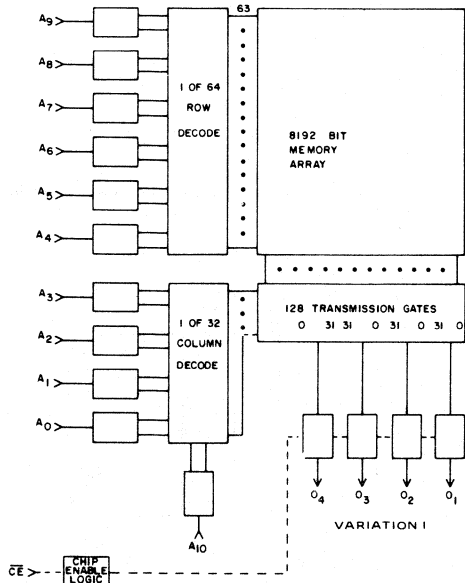
B359



B359 See PN 16cr



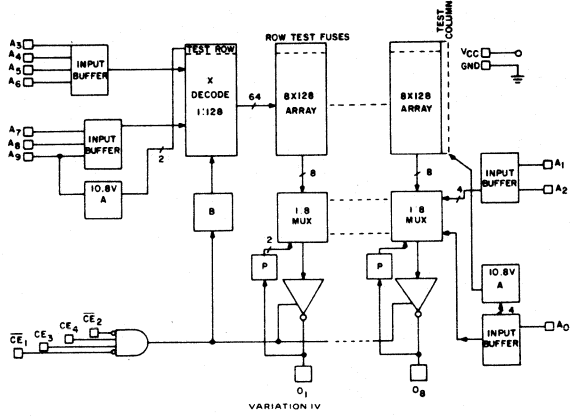
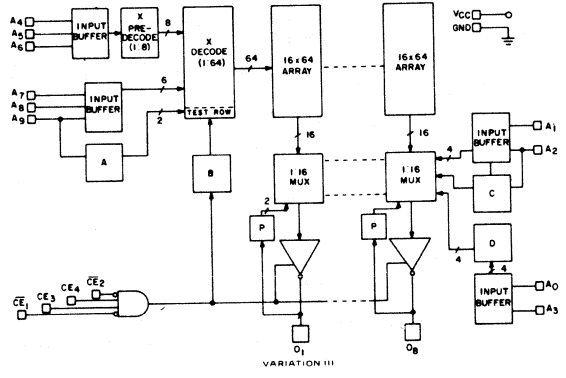
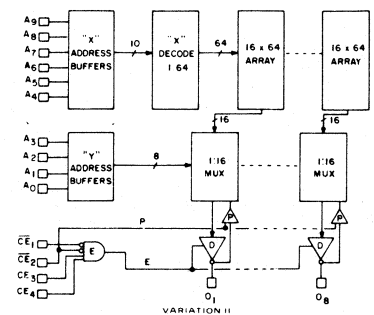
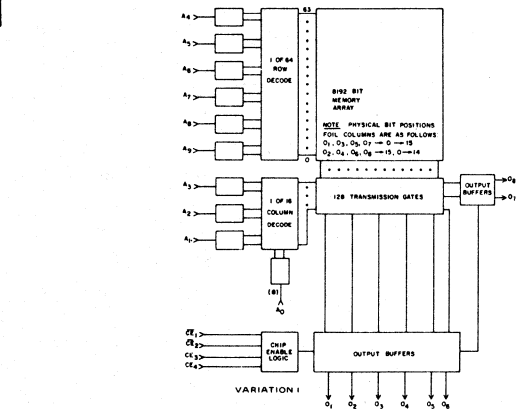
B360



22. LOGIC/BLOCK DRAWINGS

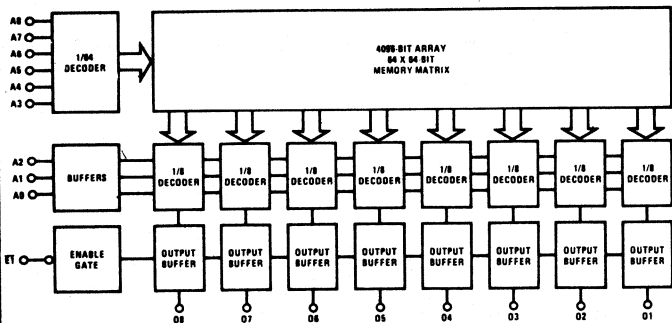
IN DRAWING NUMBER SEQUENCE

B361

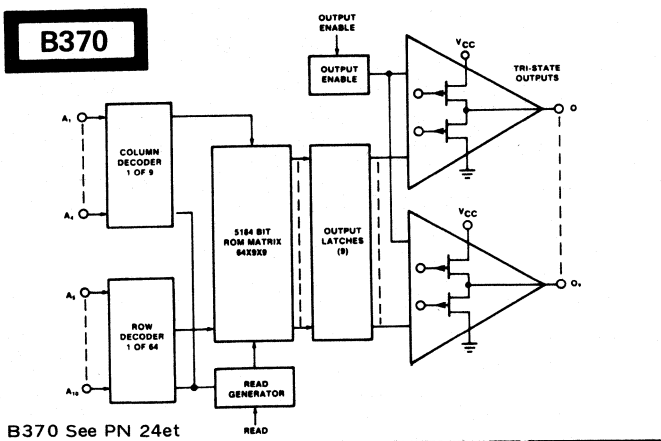


B366

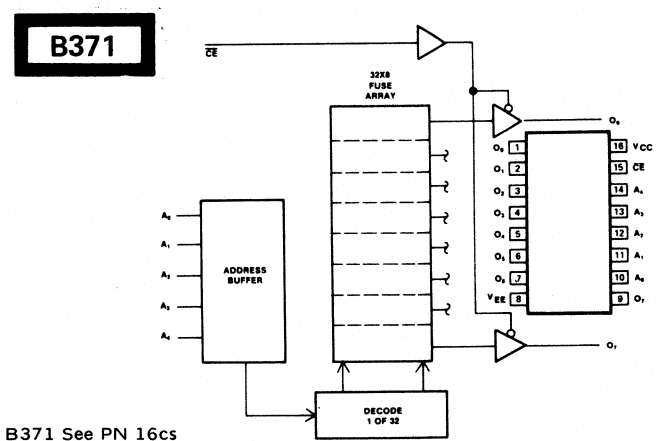
B366 See PN 20n



B370



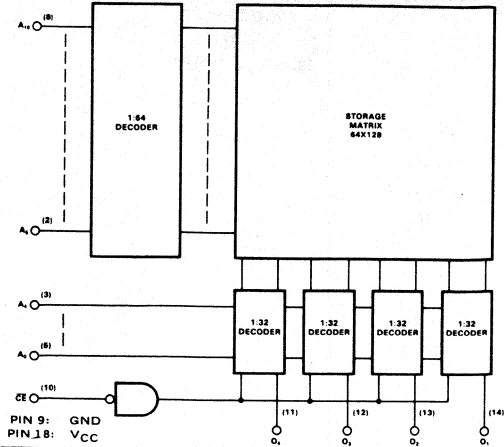
B371



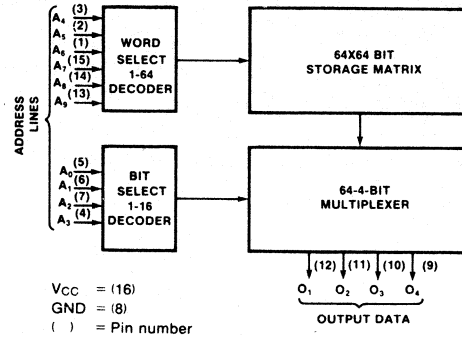
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

B372



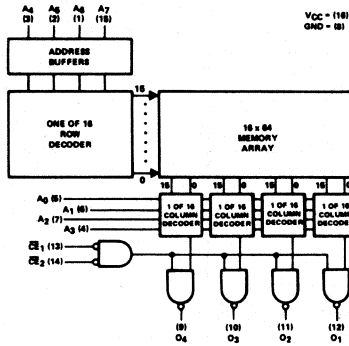
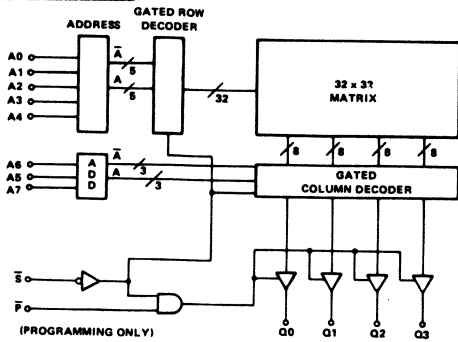
B373



B375

B375 See PN 16ct

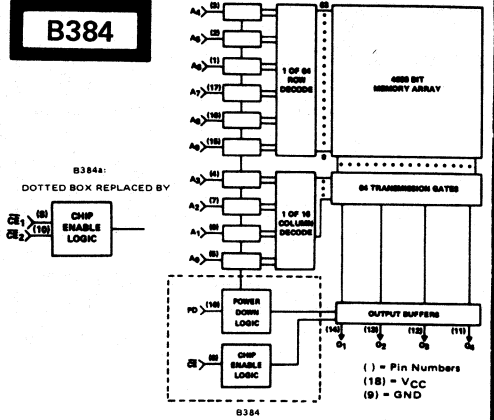
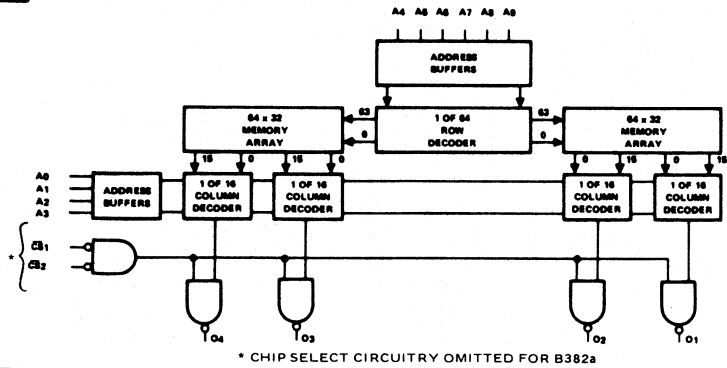
B377



B382

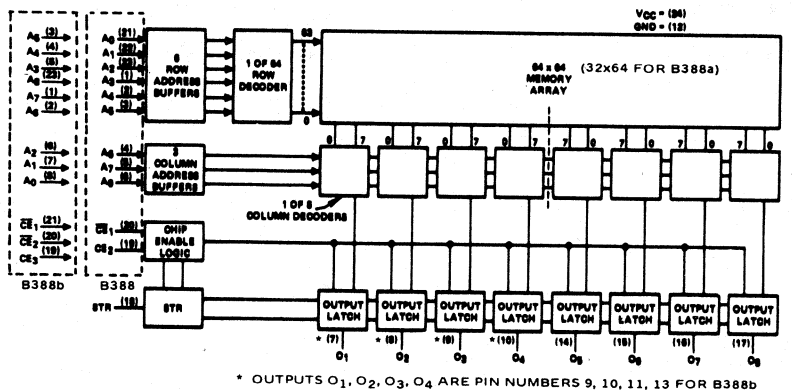
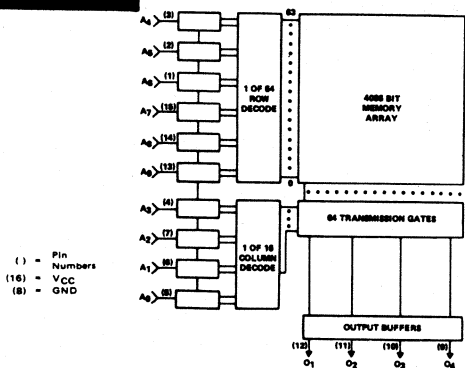
B382 See PN 18as
B382a See PN 16by

B384



B386

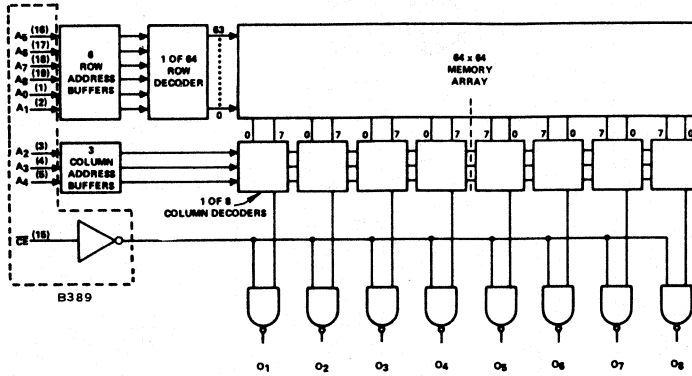
B388



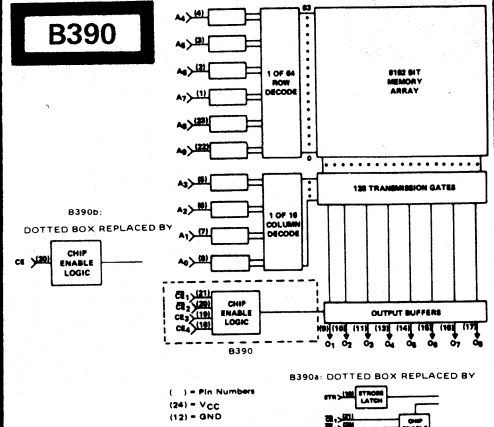
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

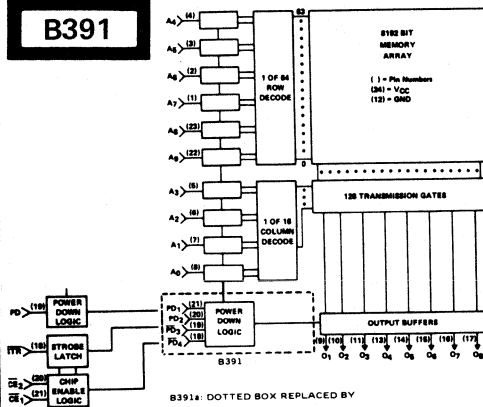
B389



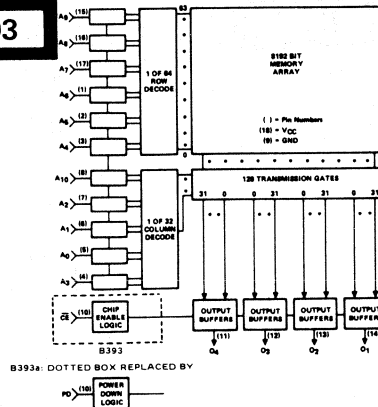
B390



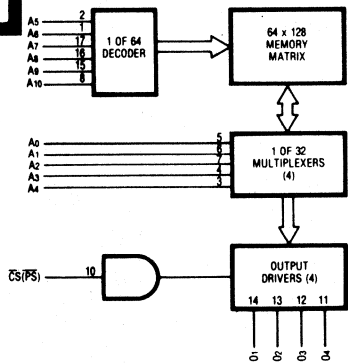
B391



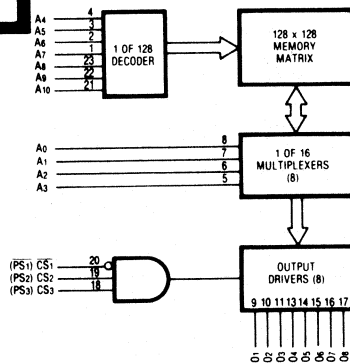
B393



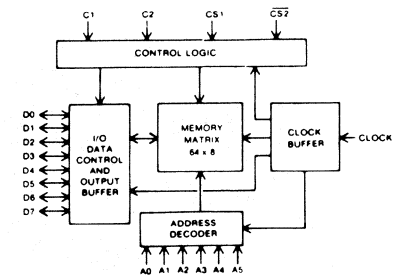
B397



B398



B401

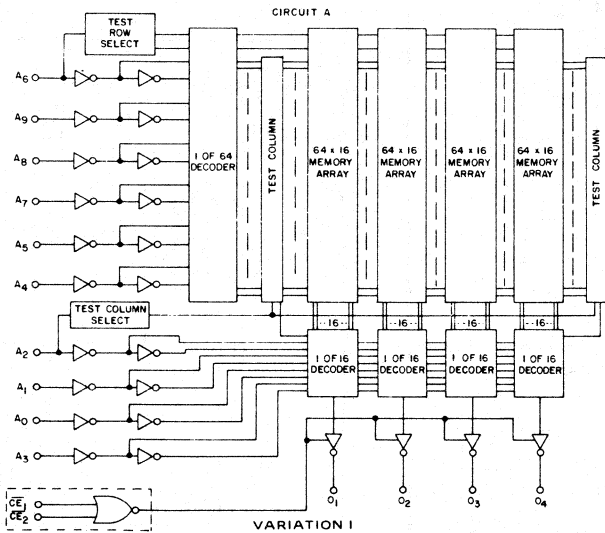


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

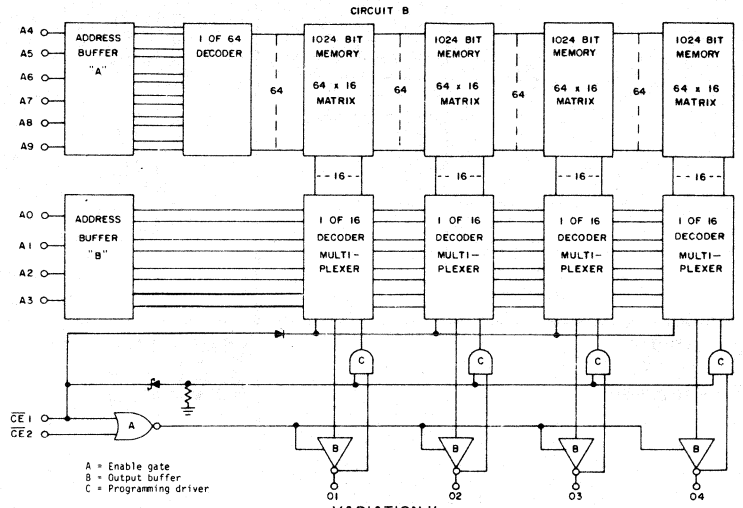
B405

Variations 1&2 See PN 18aw



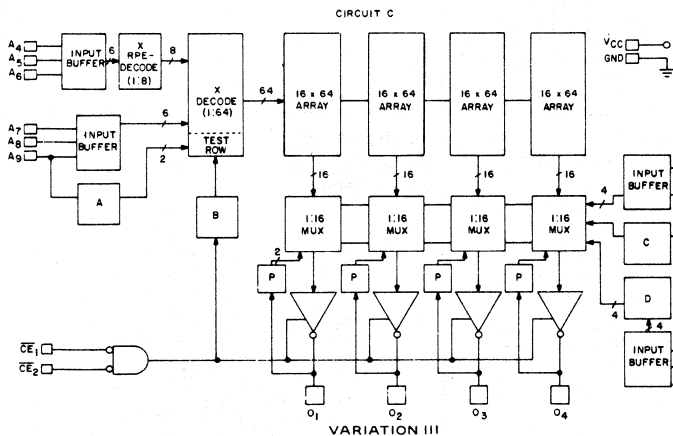
VARIATION I

Dashed line indicates no enable circuitry for device type 03.

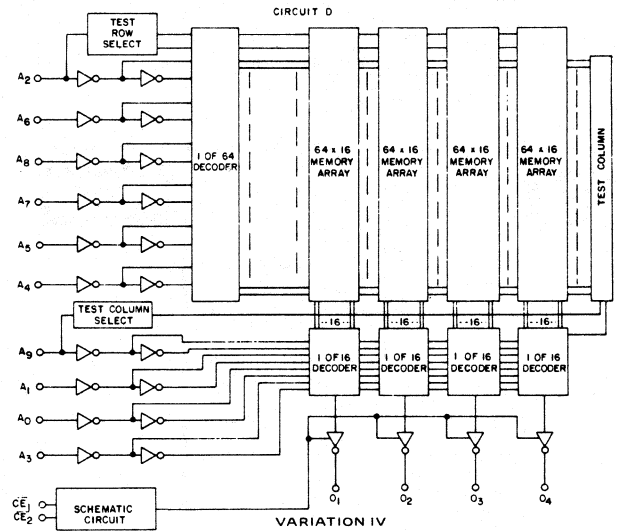


VARIATION II

A = Enable gate
B = Output buffer
C = Programming driver



VARIATION III

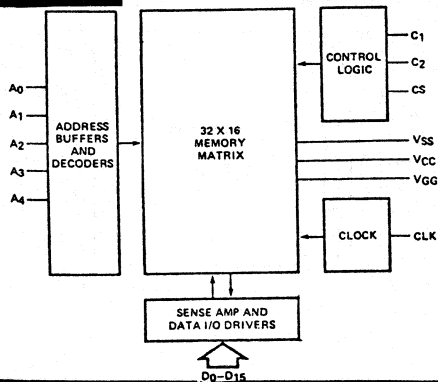


VARIATION IV

Variation III See PN 16by

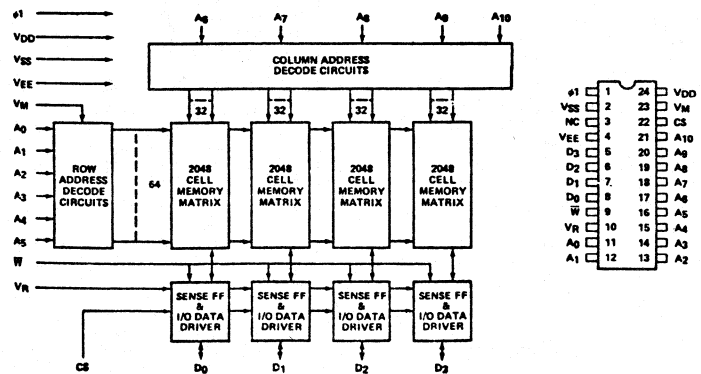
B407

B407 See PN 24dk



B408

B408 See PN 28r

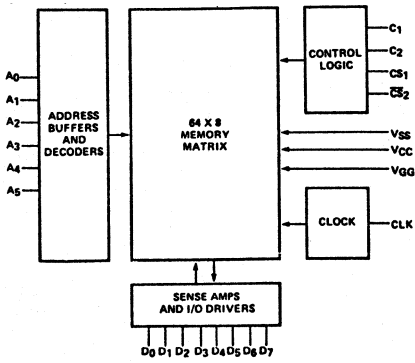


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

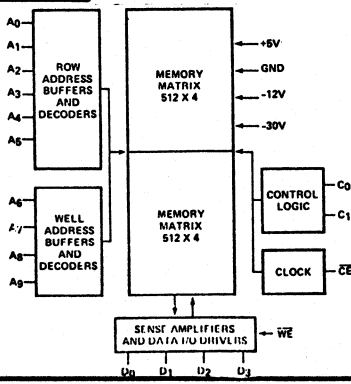
B409

B409 See PN 22ba

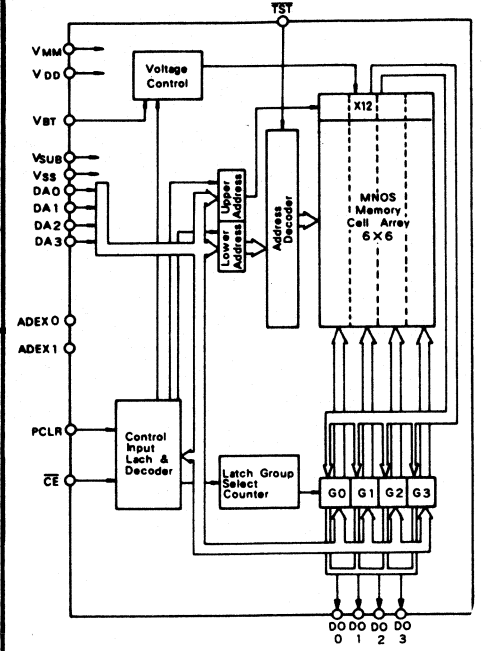


B410

B410 See PN 22bb

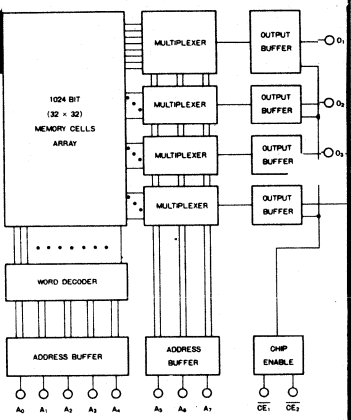


B411



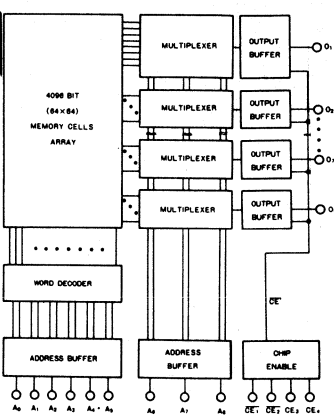
B412

B412 See PN 16cu



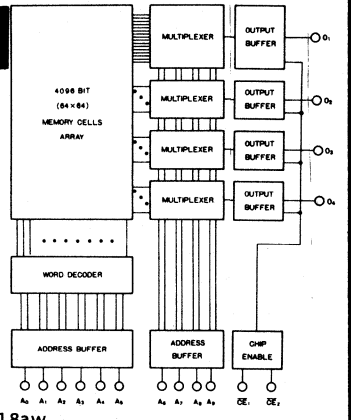
B413

B413 See PN 24dp



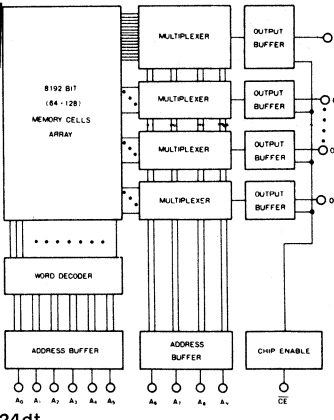
B414

B414 See PN 18aw



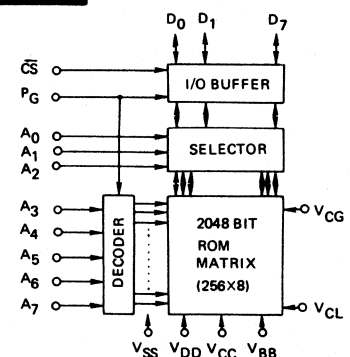
B415

B415 See PN 24dt



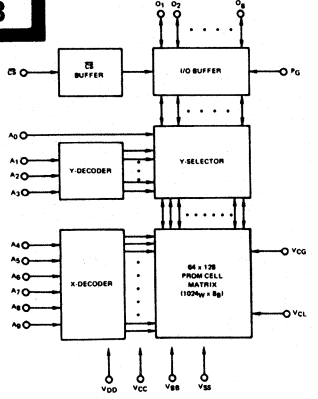
B417

B417 See PN 24fa



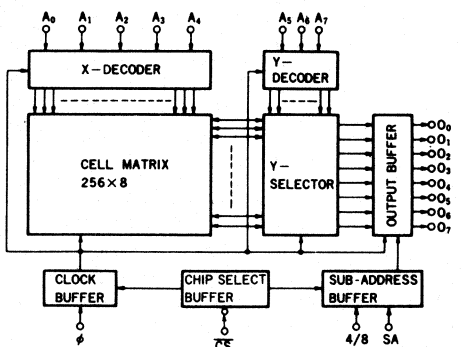
B418

B418 See PN 28h



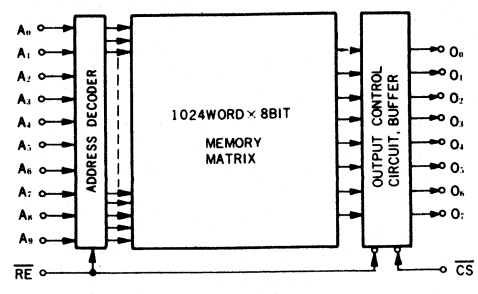
B419

B419 See PN 24fb



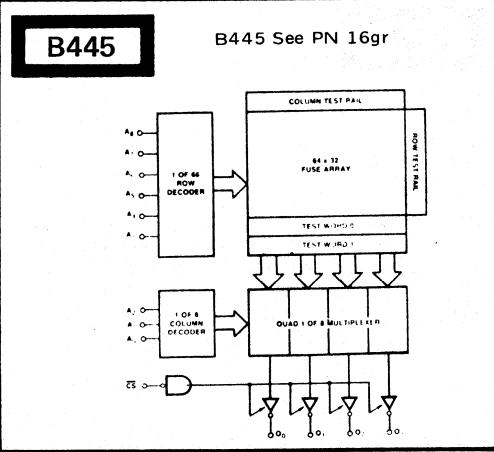
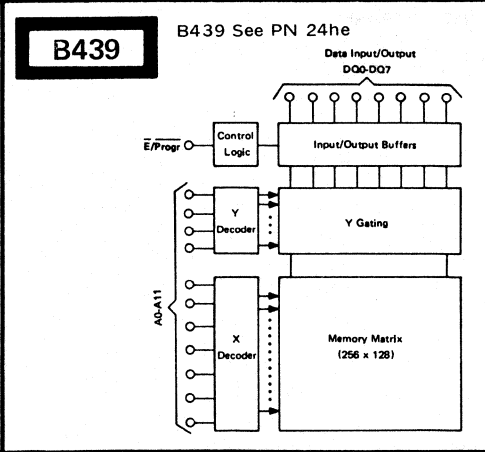
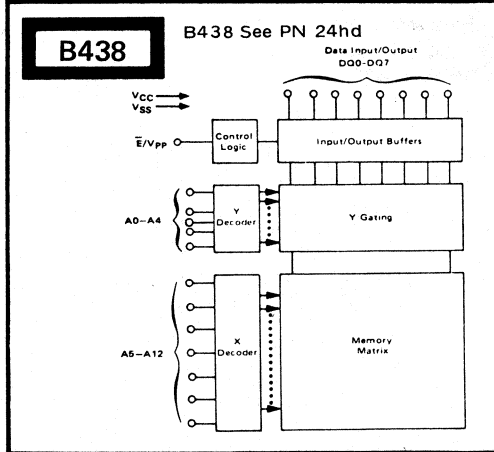
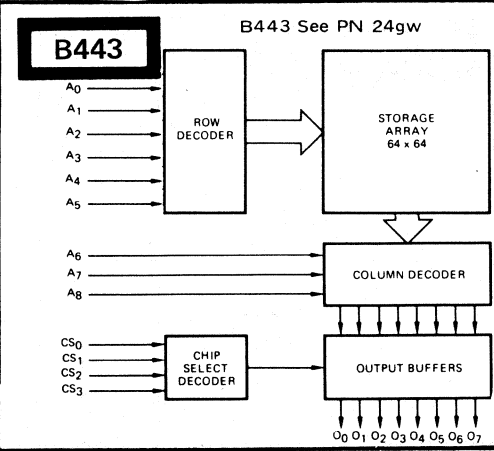
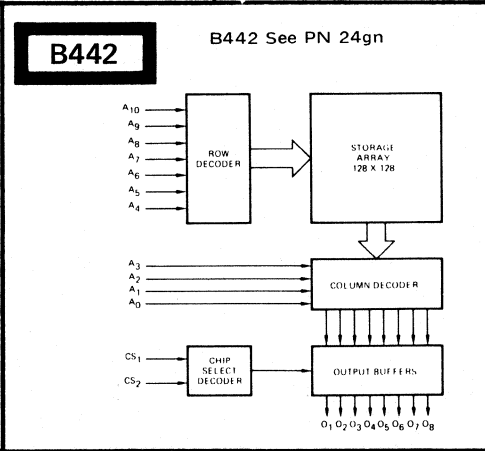
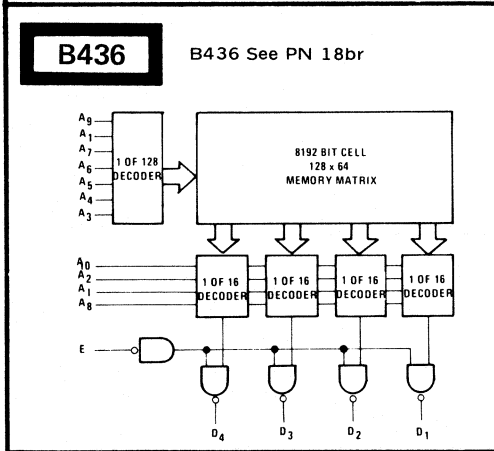
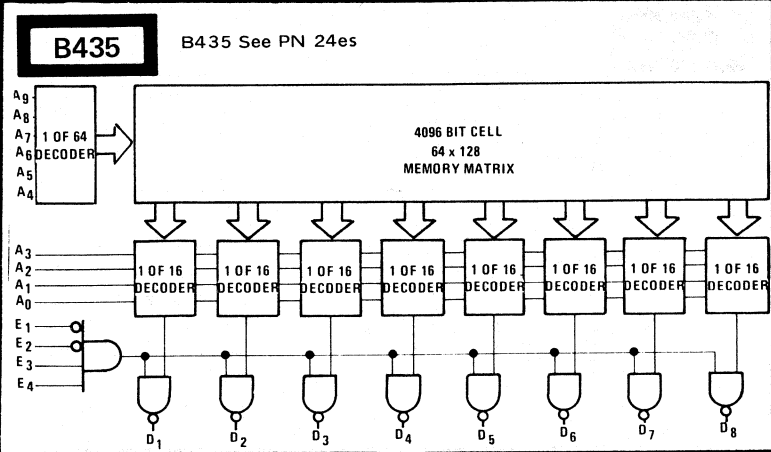
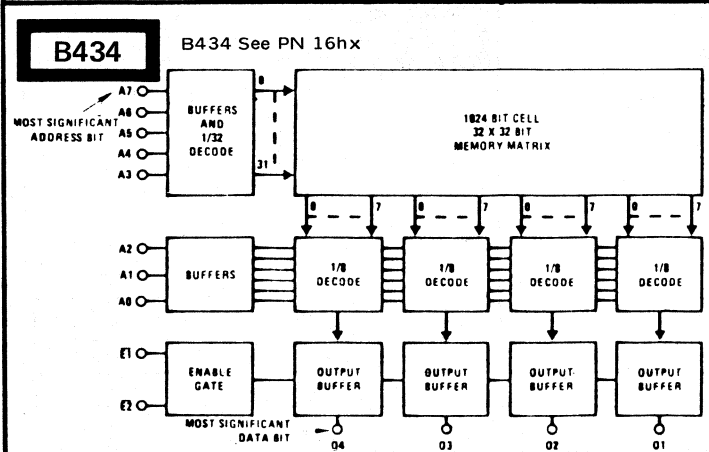
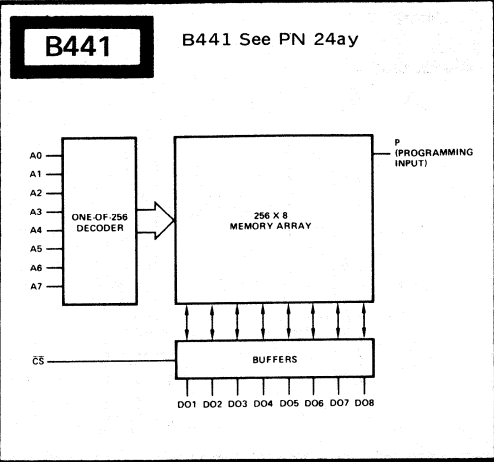
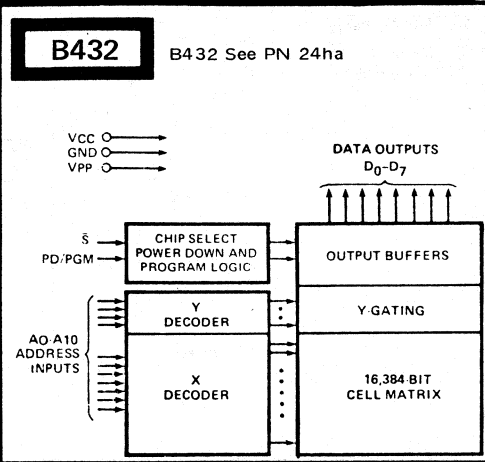
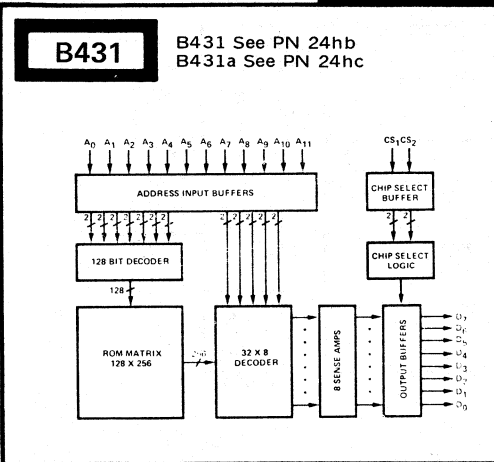
B420

B420 See PN 24fc



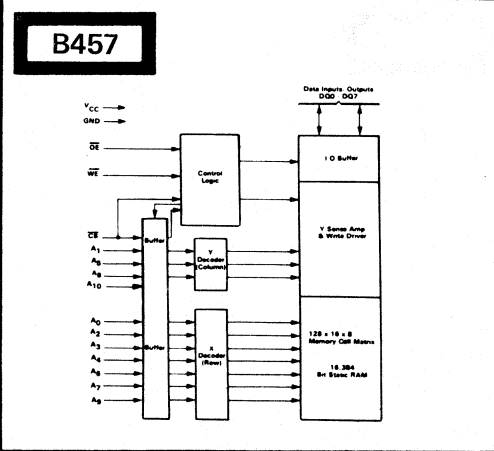
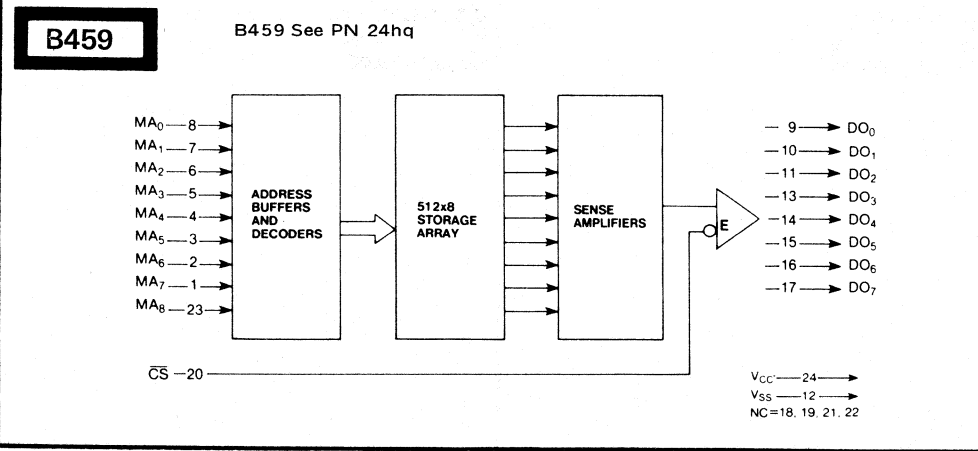
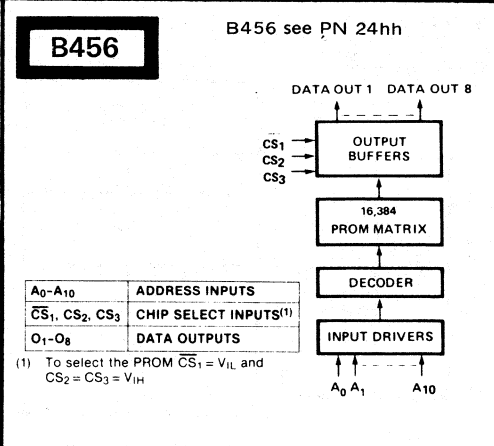
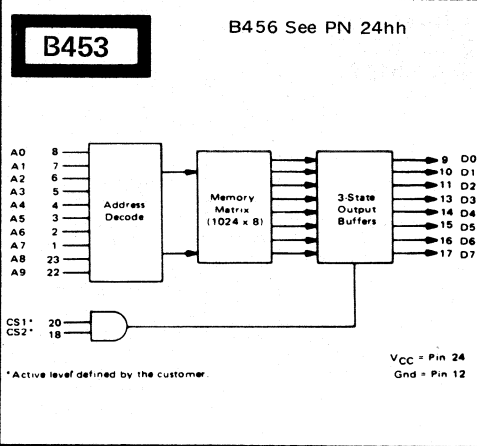
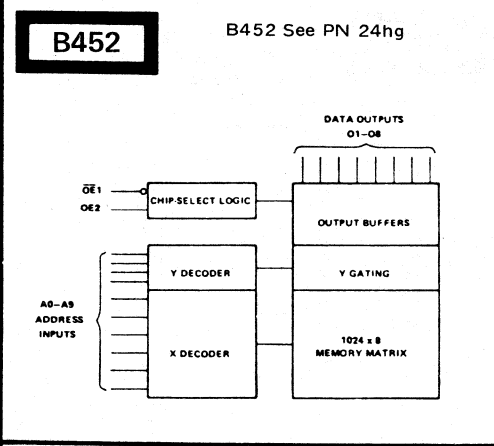
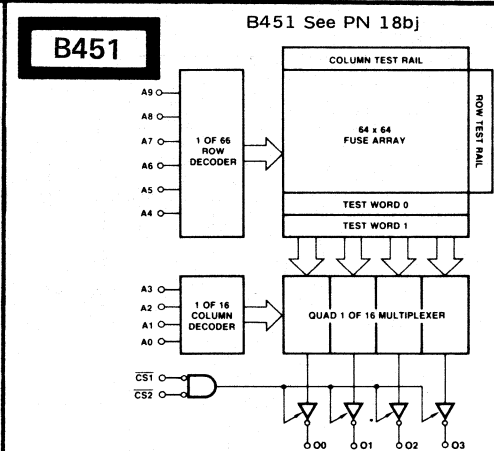
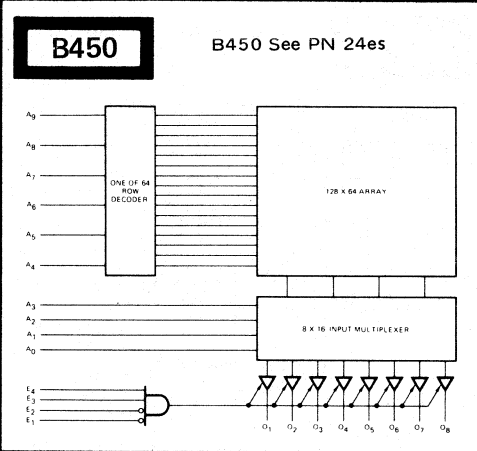
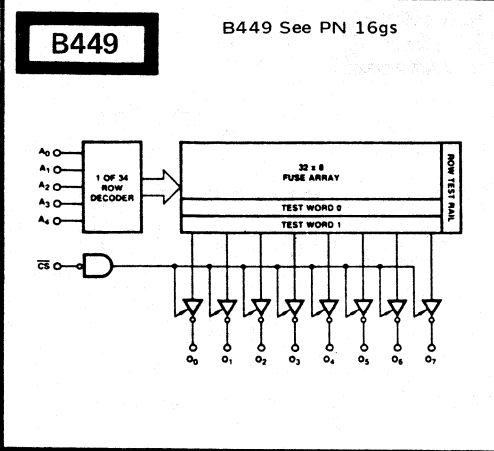
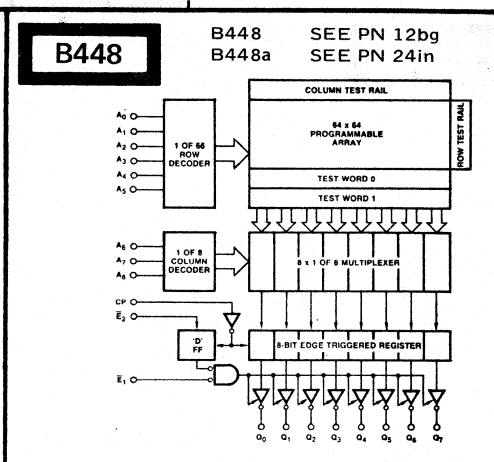
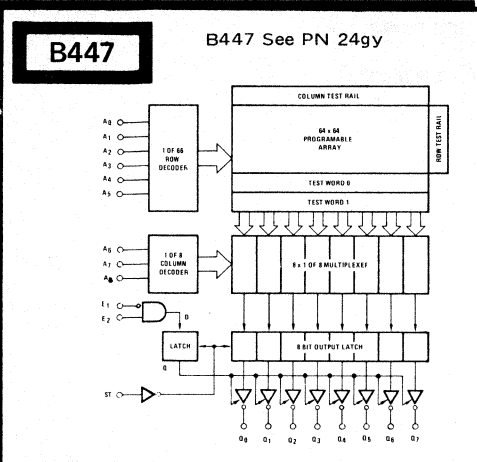
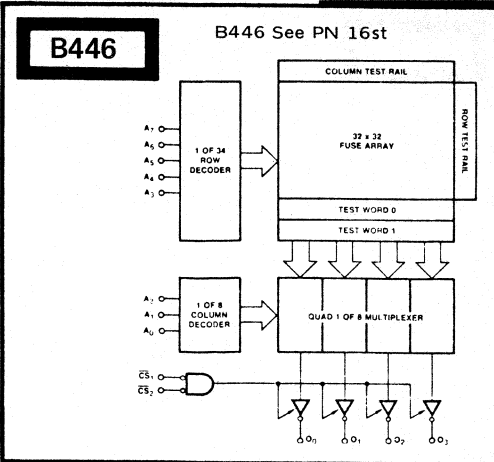
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE



22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

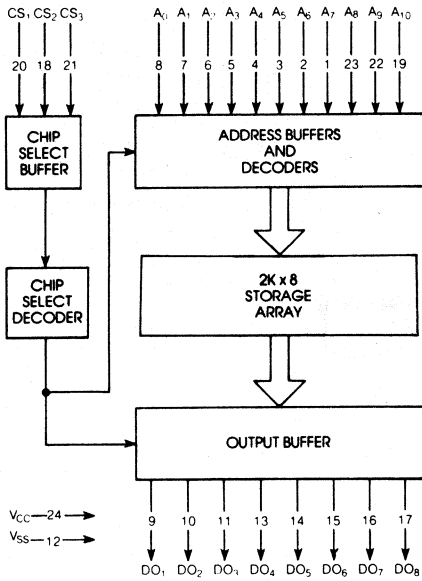


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

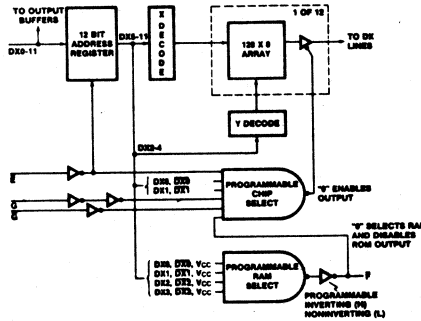
B460

B460 See PN 24hr



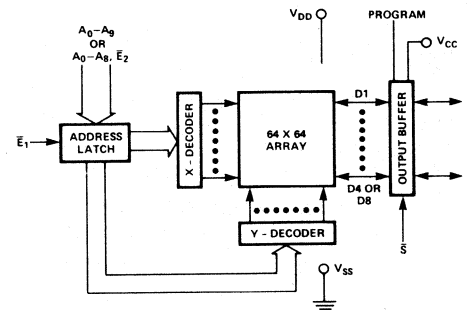
B463

B463 See PN 18bp



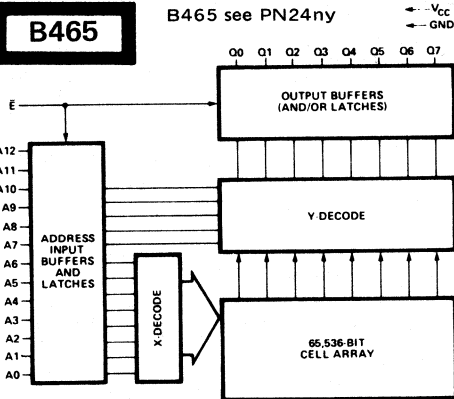
B464

B464 See PN 24hw, hx



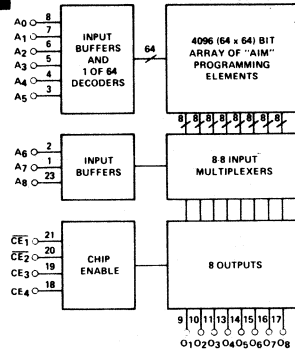
B465

B465 see PN24ny



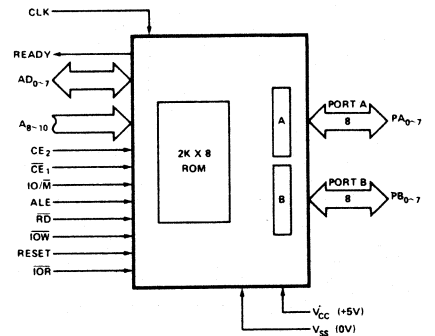
B466

B466 see PN 24hg



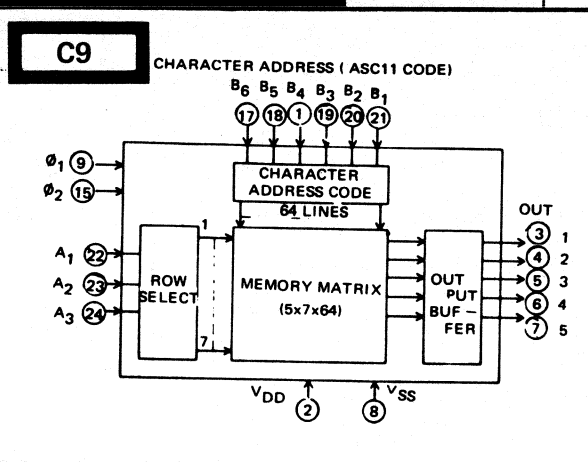
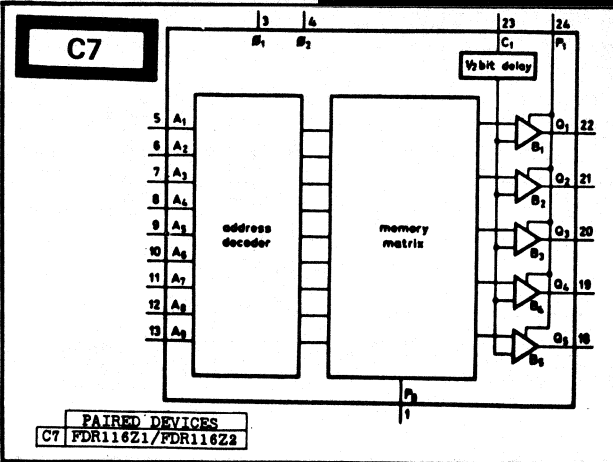
B467

B467 see PN40k
B467a See PN 40l
B467b See PN 40m



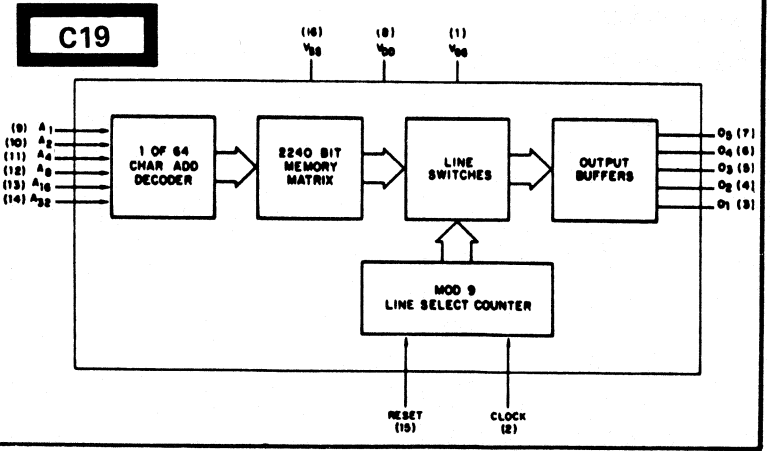
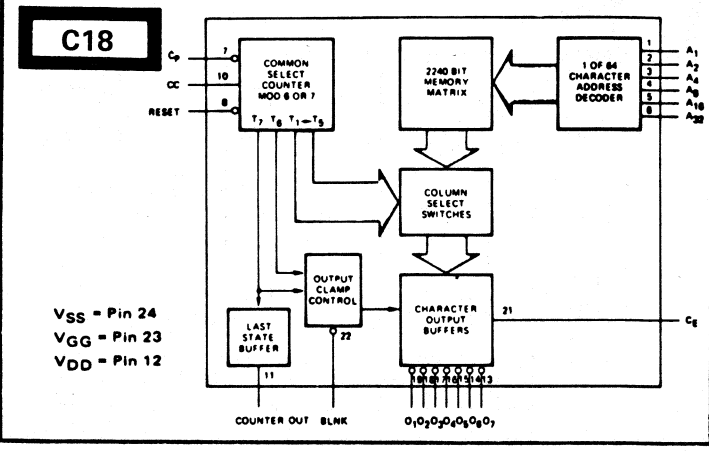
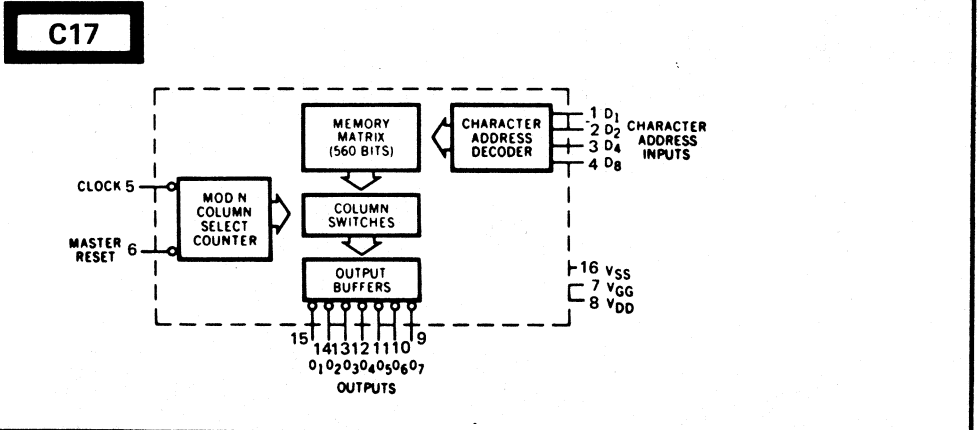
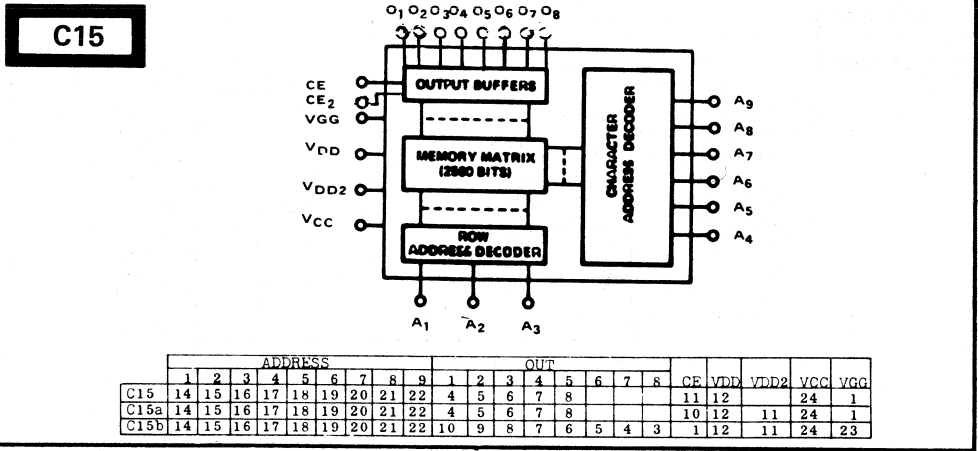
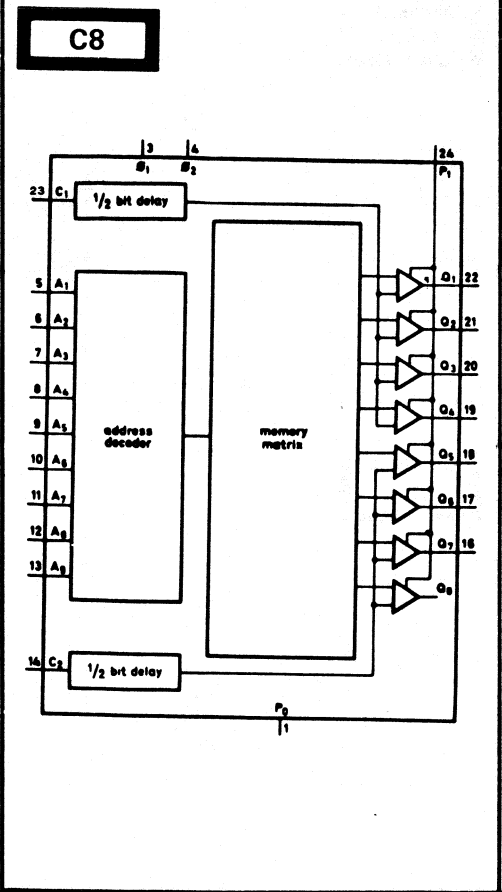
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE



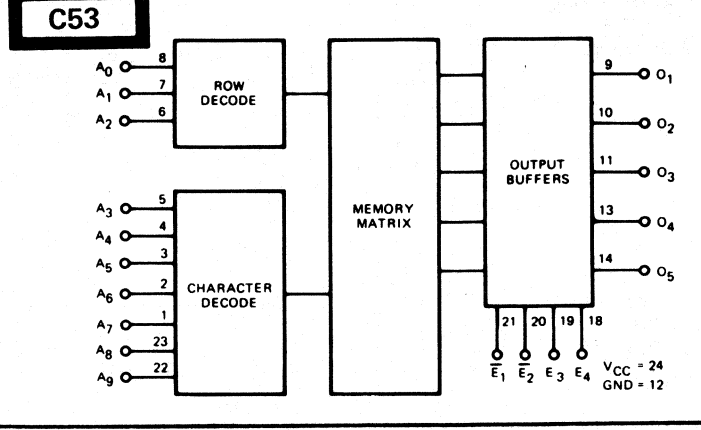
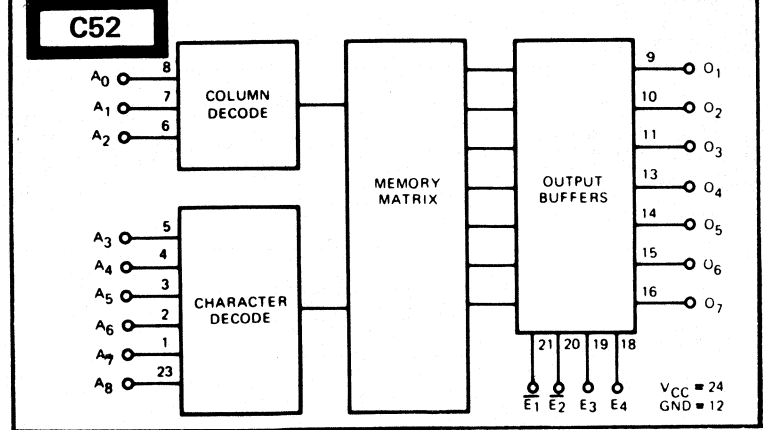
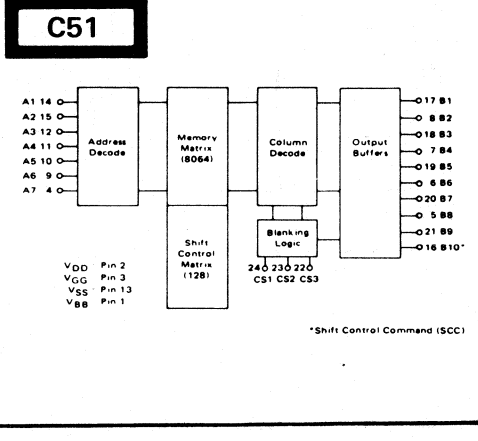
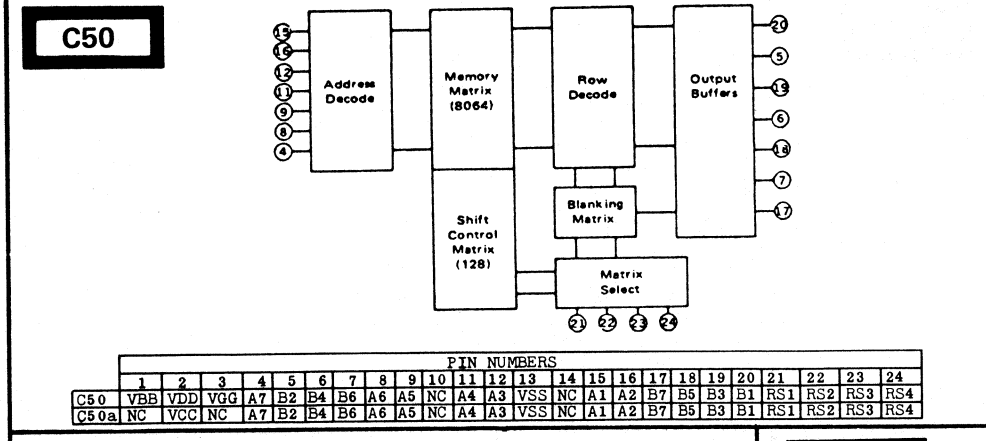
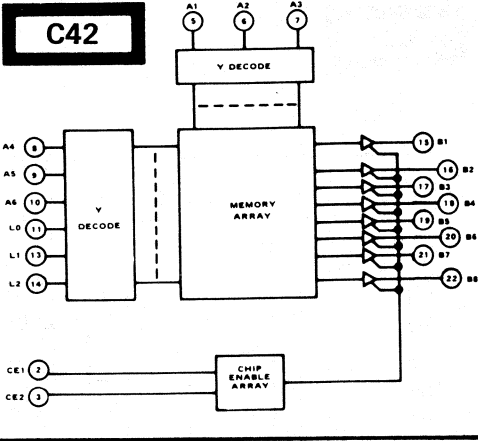
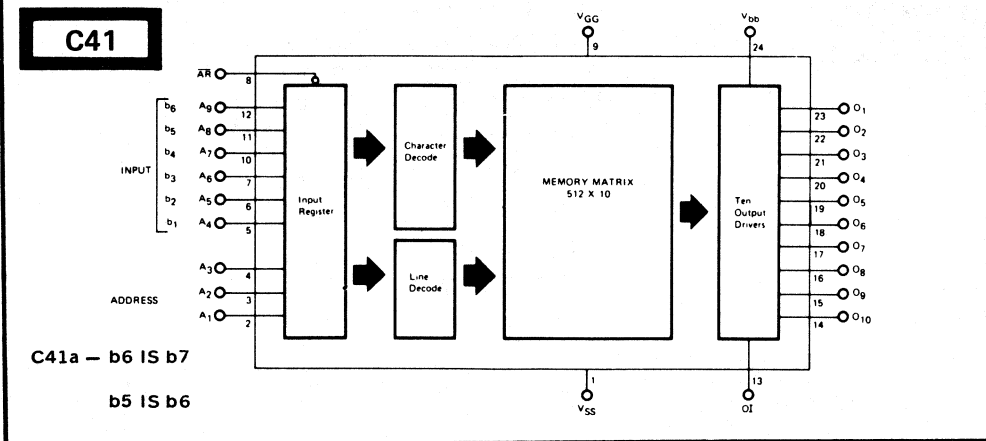
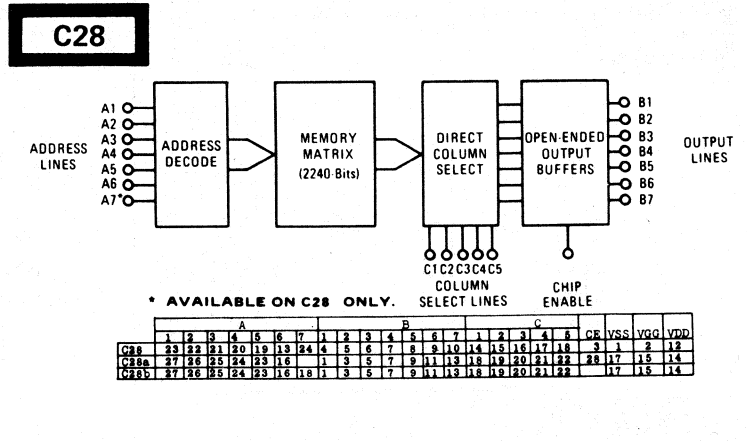
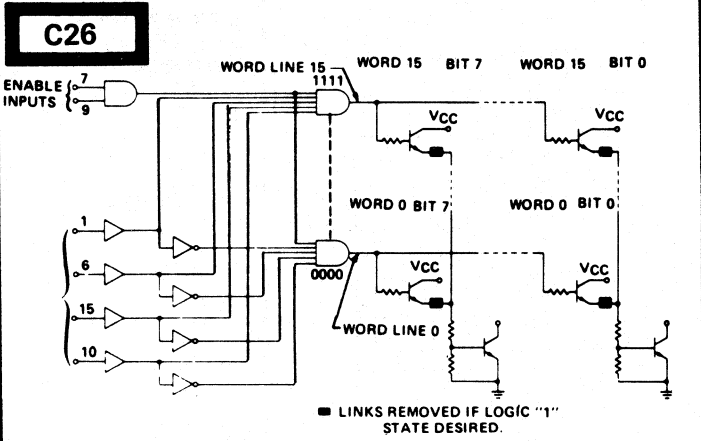
C14a

see PN24fi



22. LOGIC/BLOCK DRAWINGS

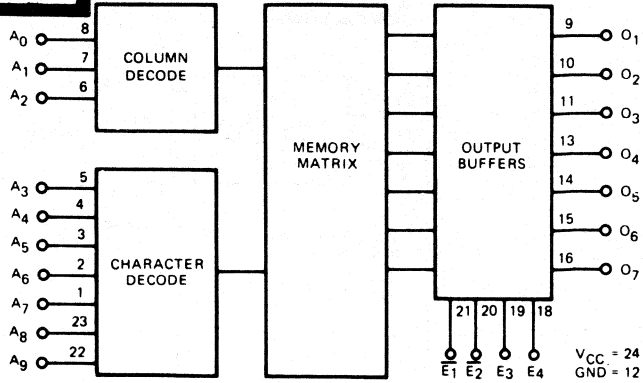
IN DRAWING NUMBER SEQUENCE



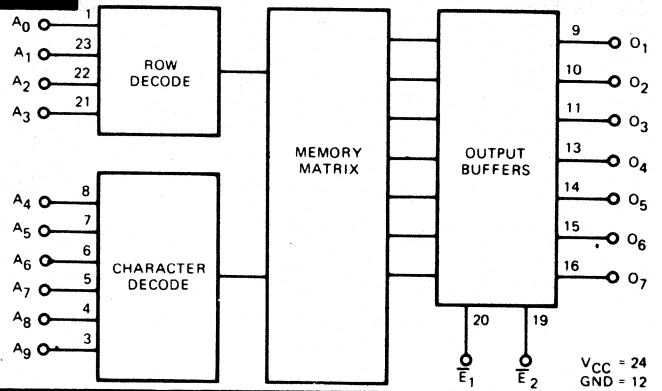
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

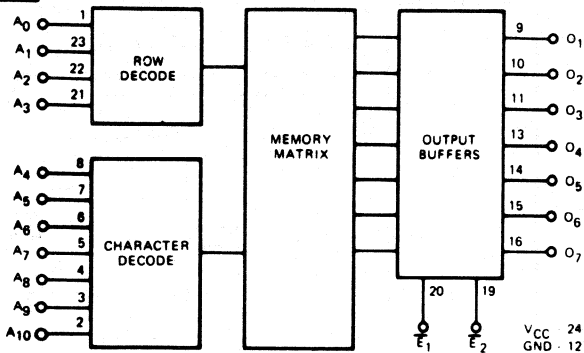
C54



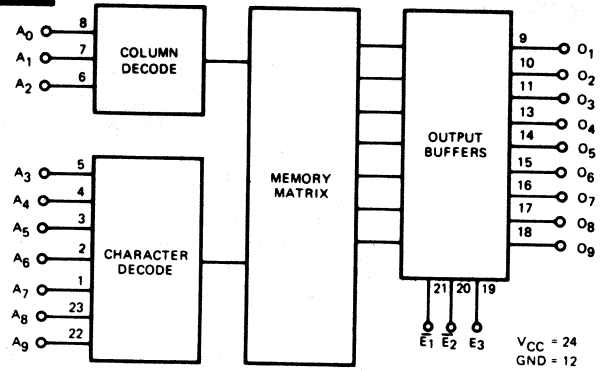
C55



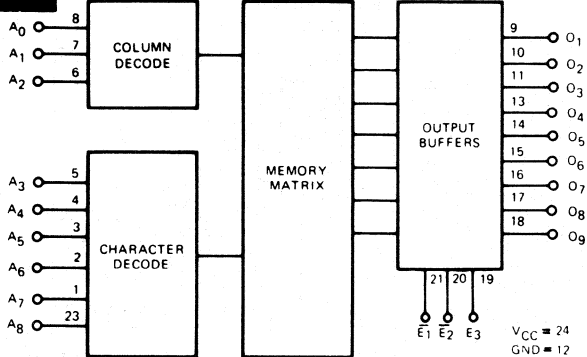
C56



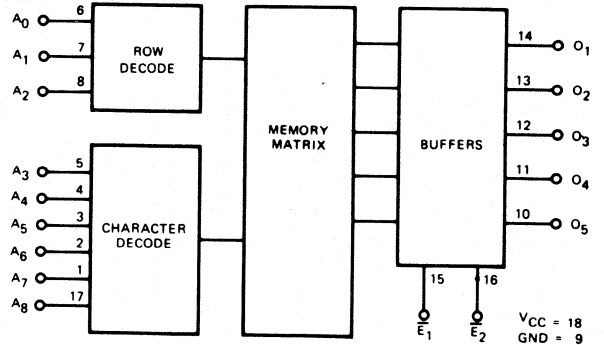
C57



C58

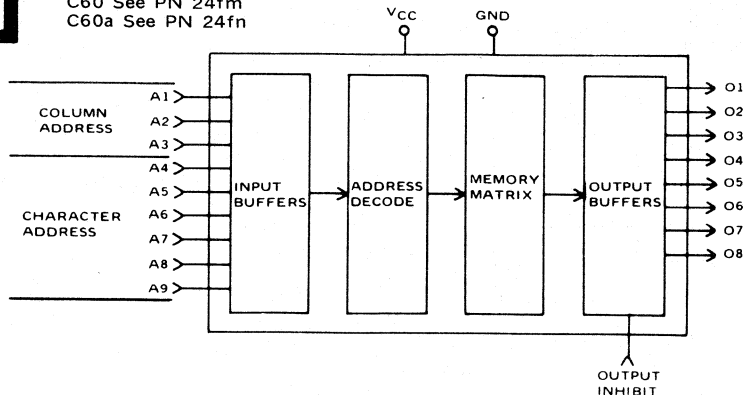


C59



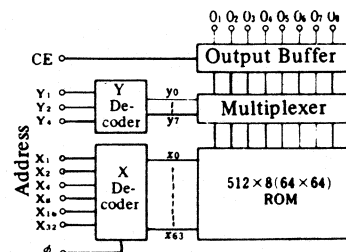
C60

C60 See PN 24fm
C60a See PN 24fn



C61

C61 See PN 24bk

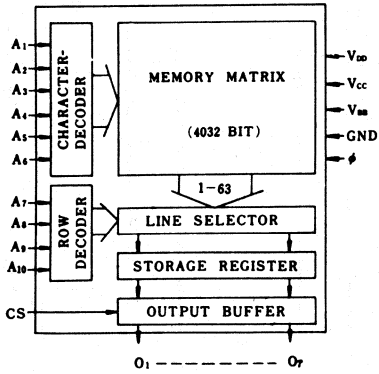


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

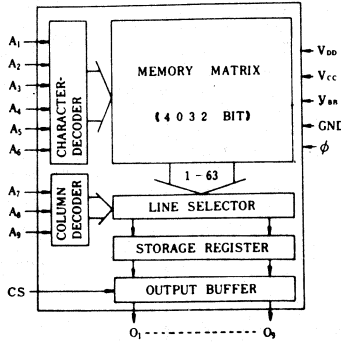
C62

C62 See PN 28t

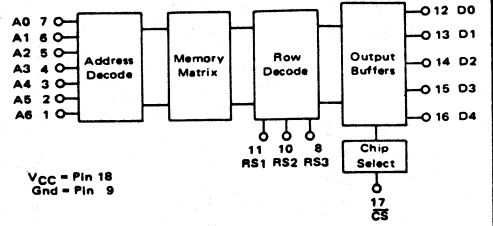


C63

C63 See PN 28u



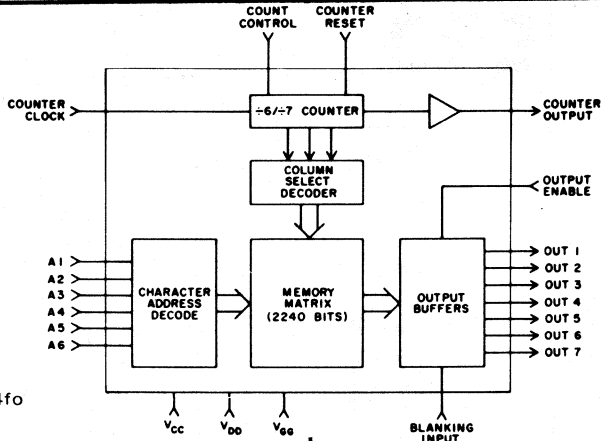
C64



VCC = Pin 18
Gnd = Pin 9

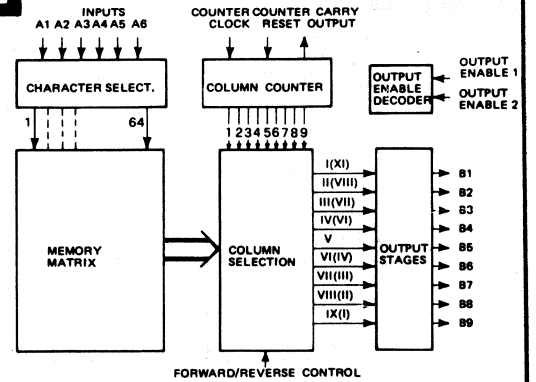
C65

C65 See PN 24fo



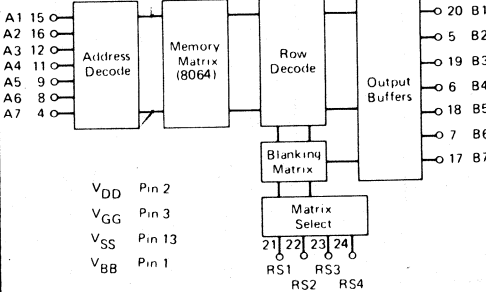
C66

C66 See PN 24fb



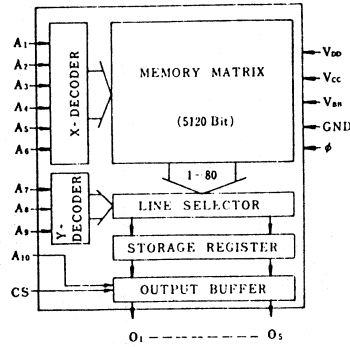
C67

C67 See PN 24fq



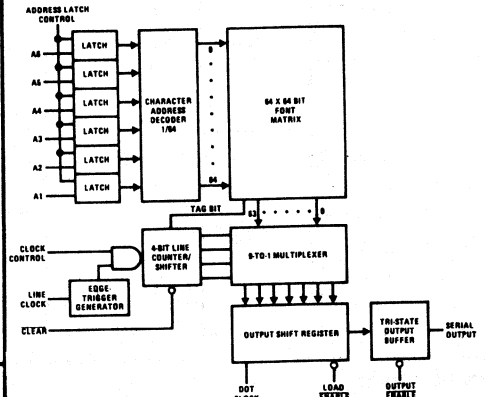
C71

C71 See PN 28k



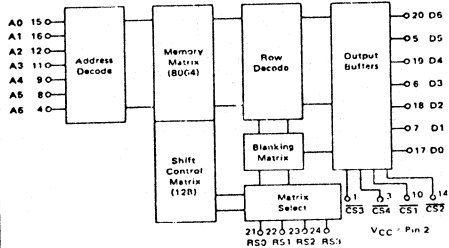
C75

C75 See PN 16cv
C75a



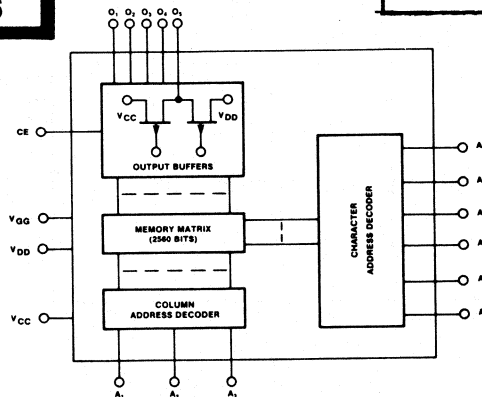
C72

C72 See PN 24fs



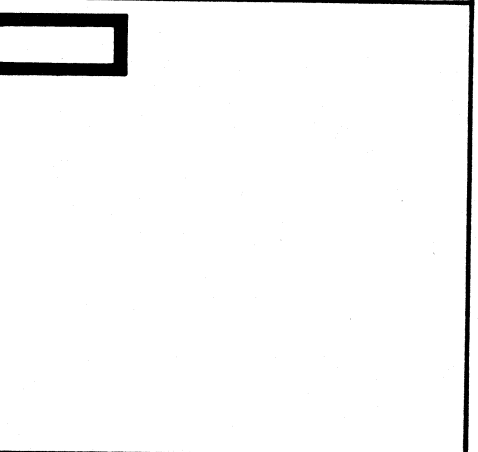
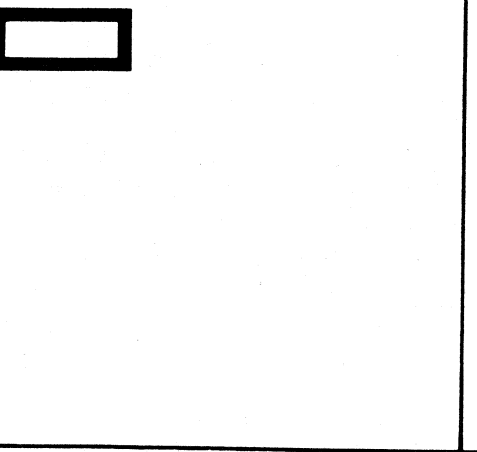
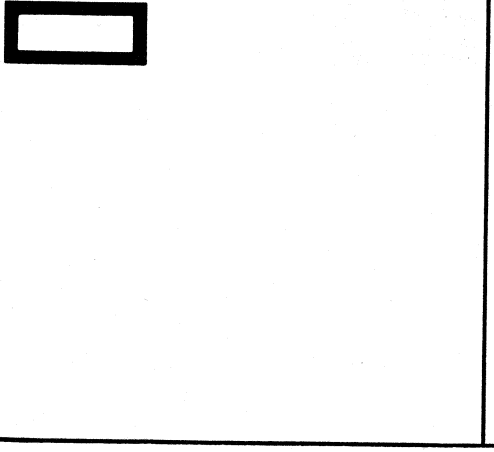
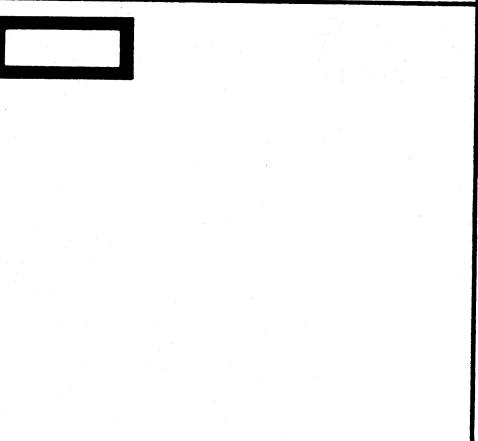
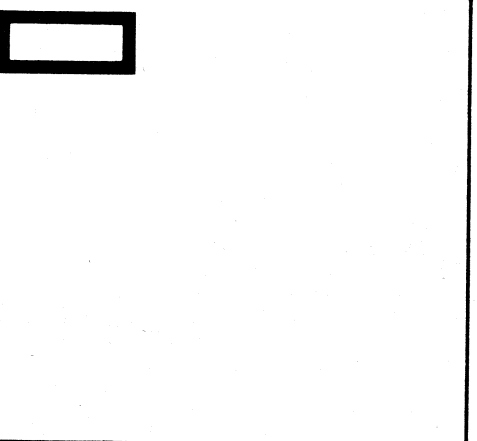
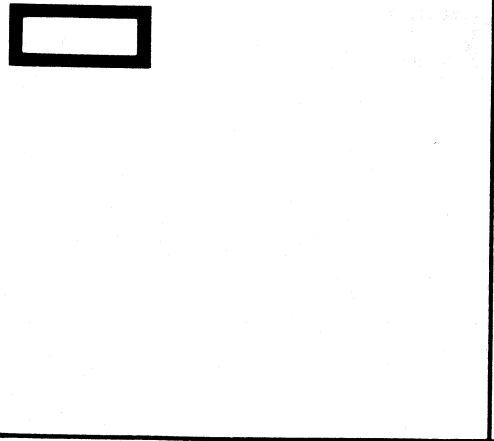
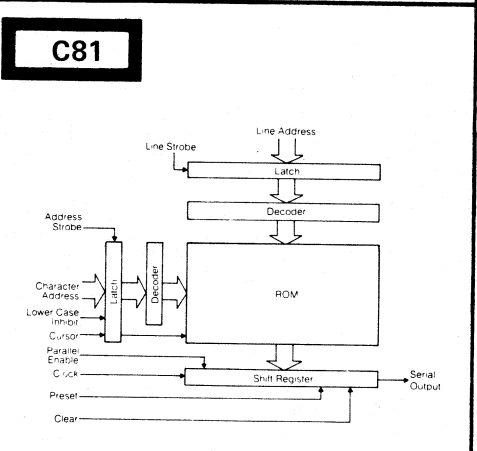
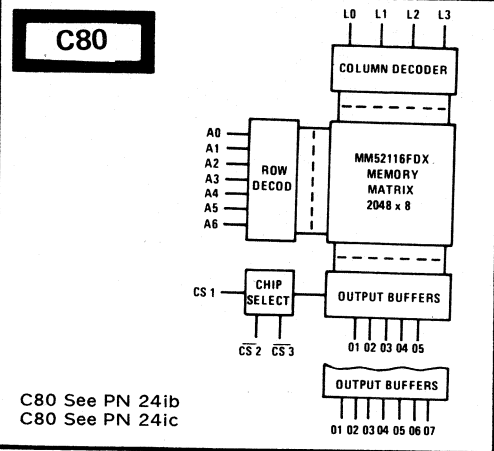
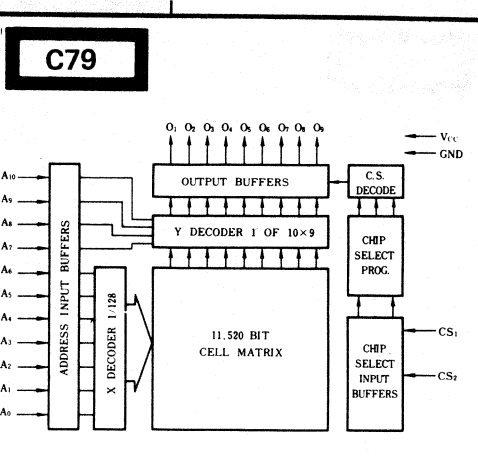
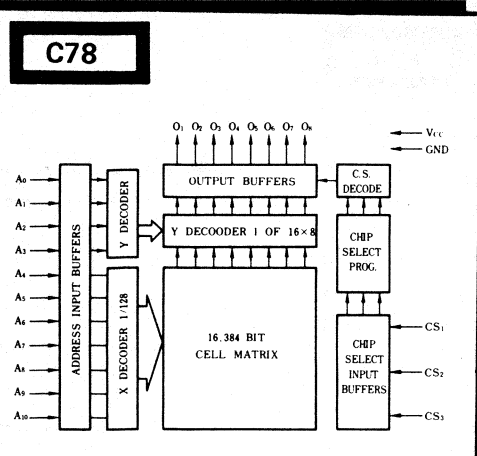
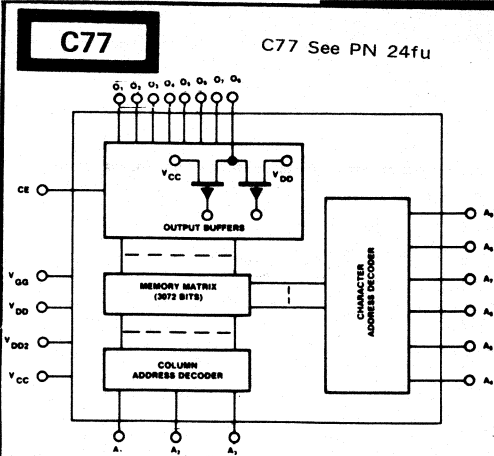
C76

C76 See PN 24ft



22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE



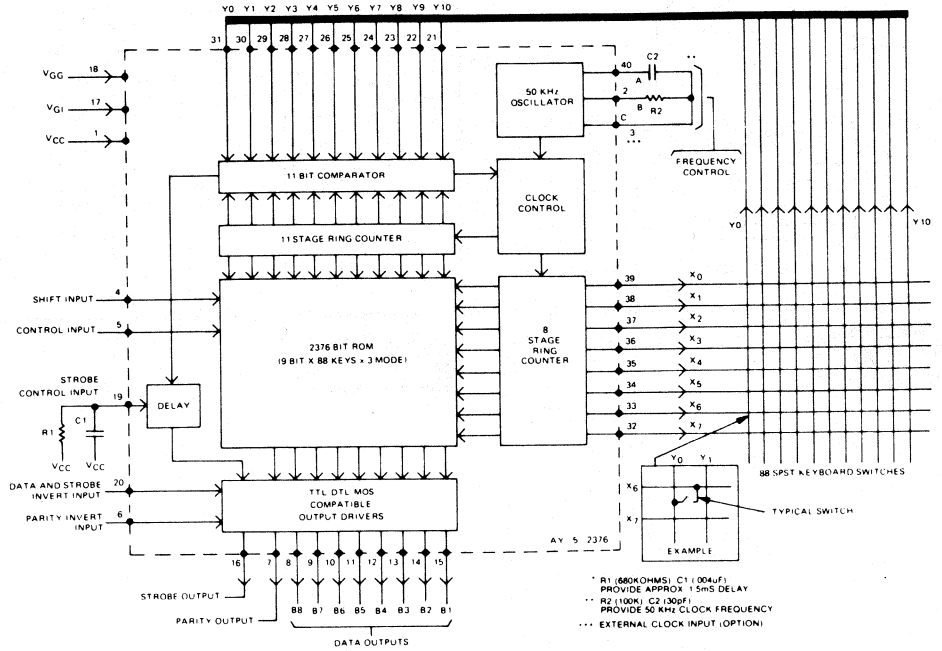
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

E1

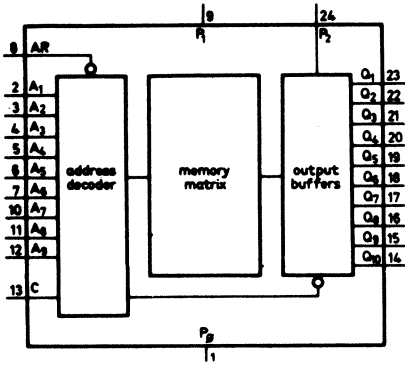
E1 See PN 24bi
E1a See PN 24bh

E17



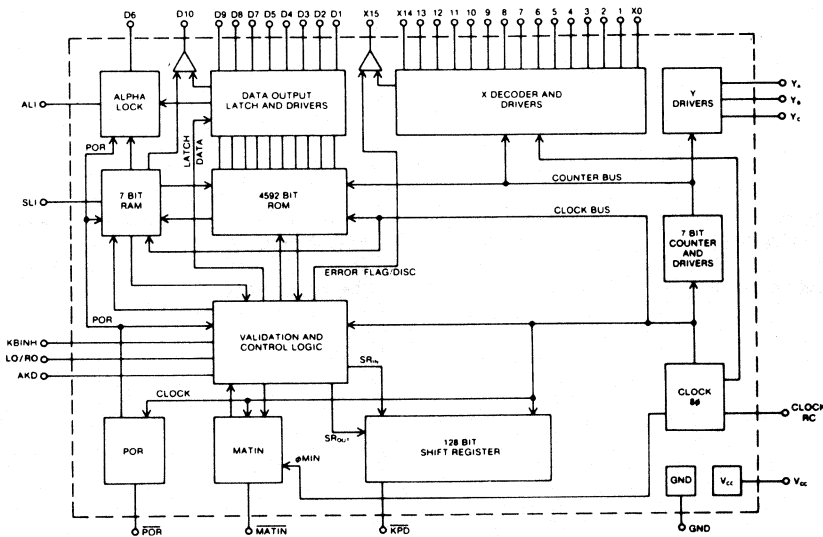
E17a SEE PN 40c

E13



E25

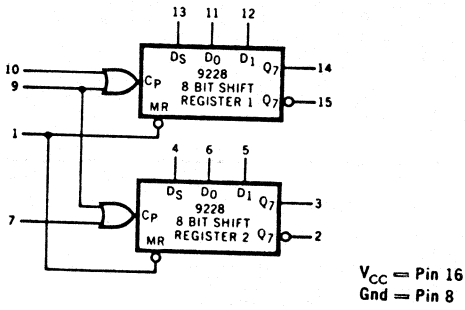
E25 See PN 40g



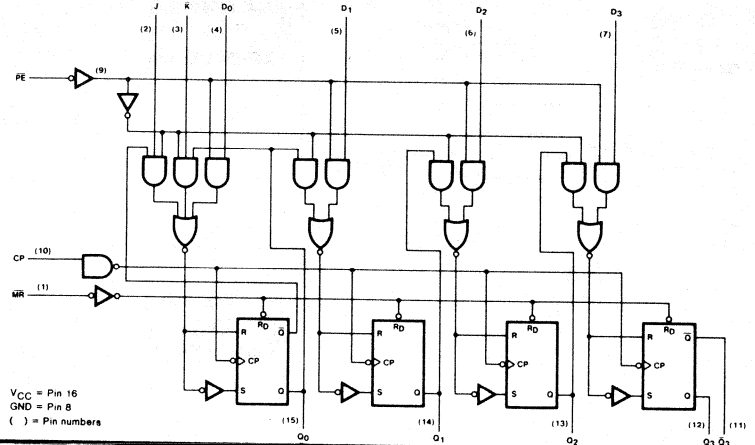
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

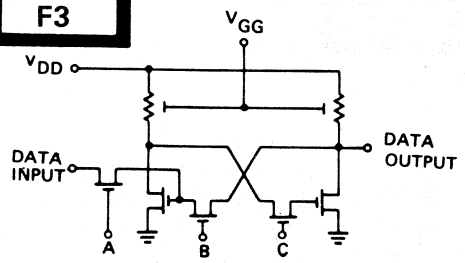
F1



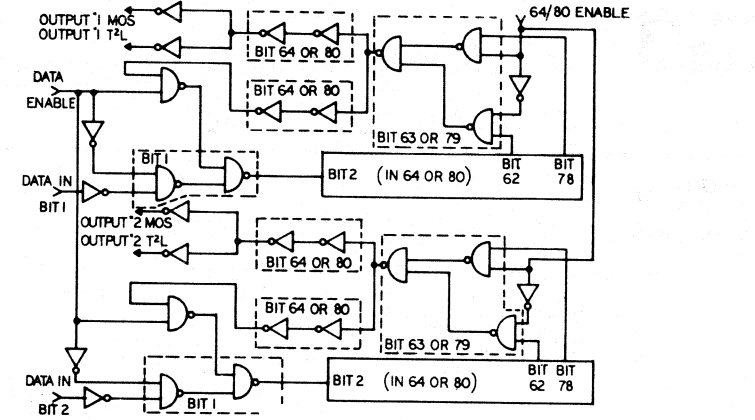
F2



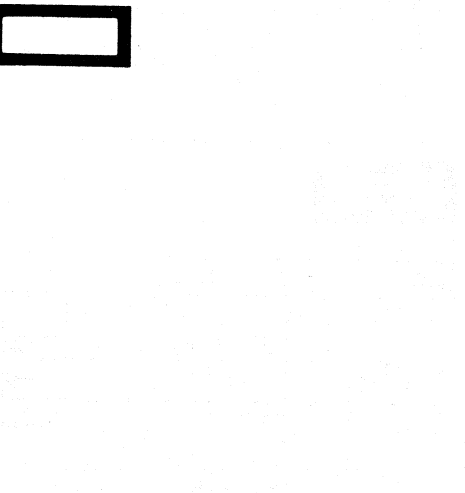
F3



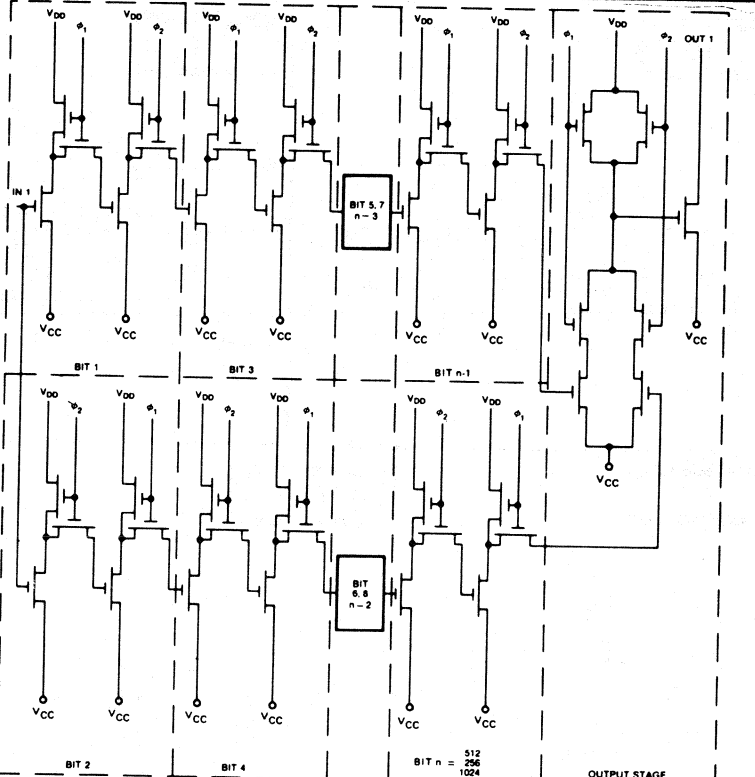
F19



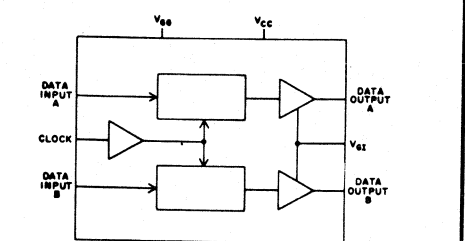
F25



F29



F25

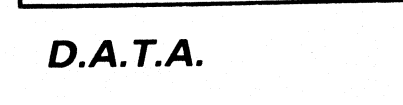
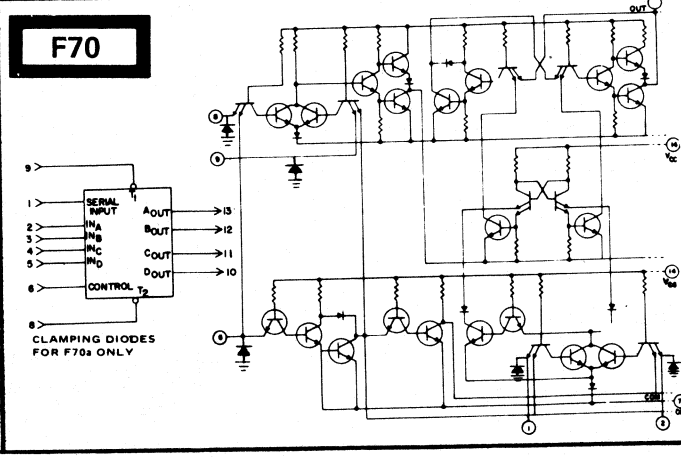
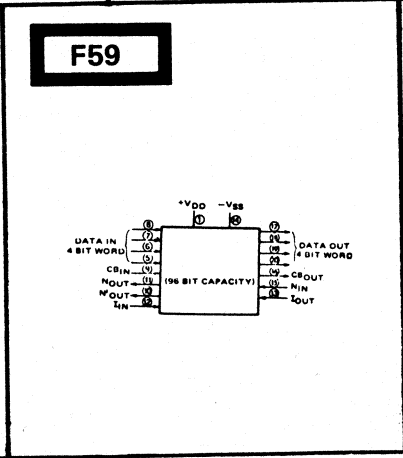
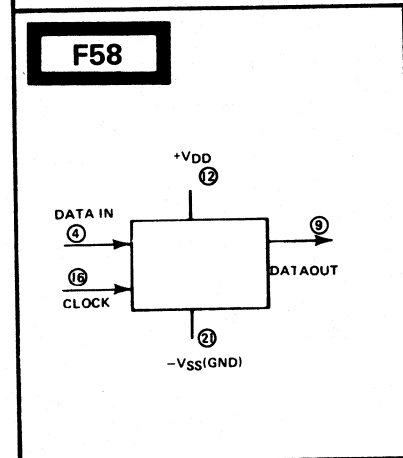
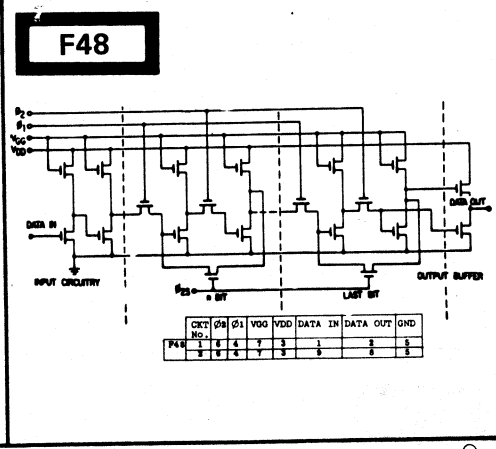
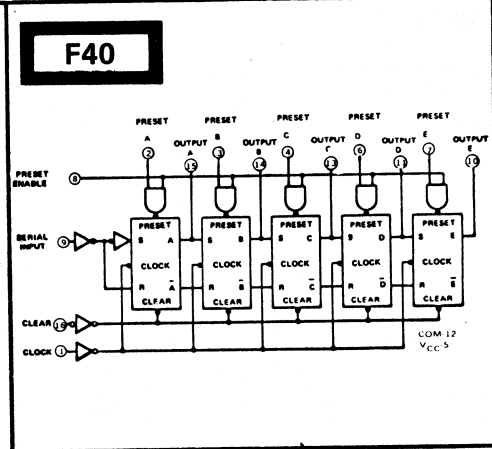
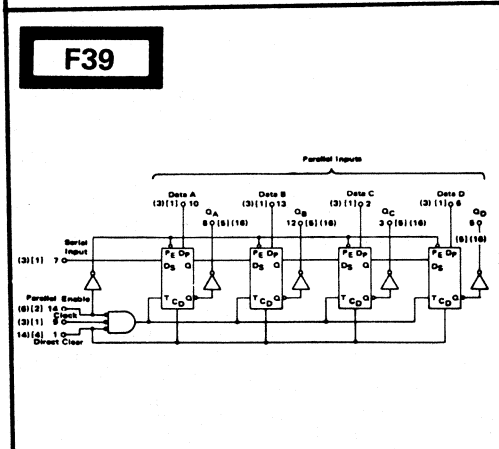
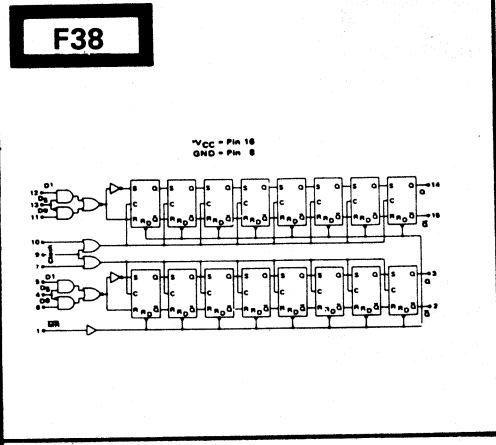
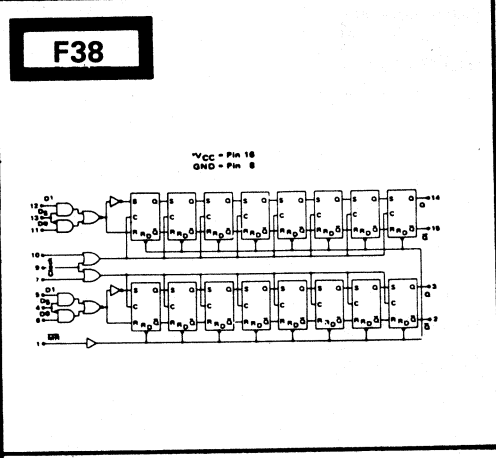
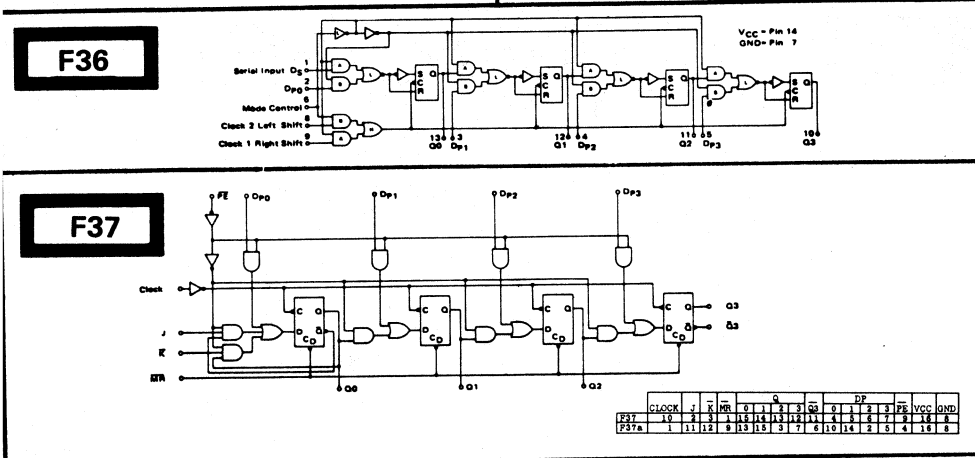
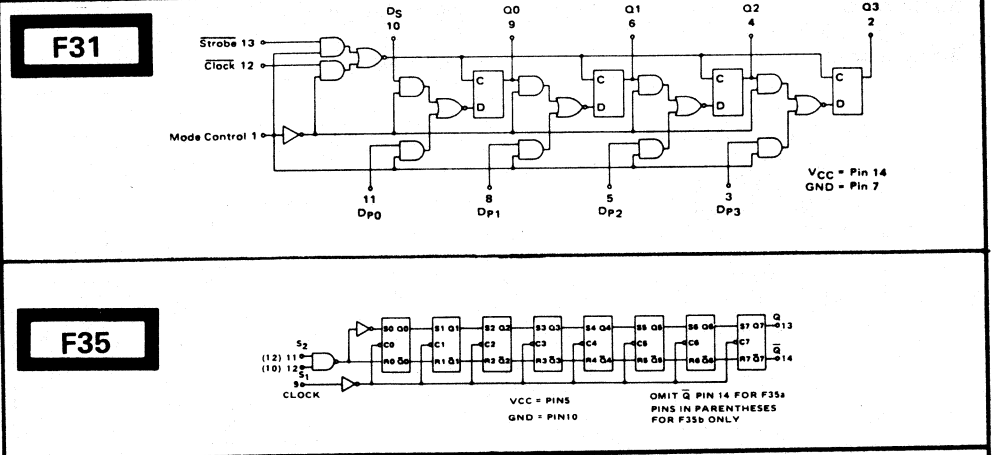
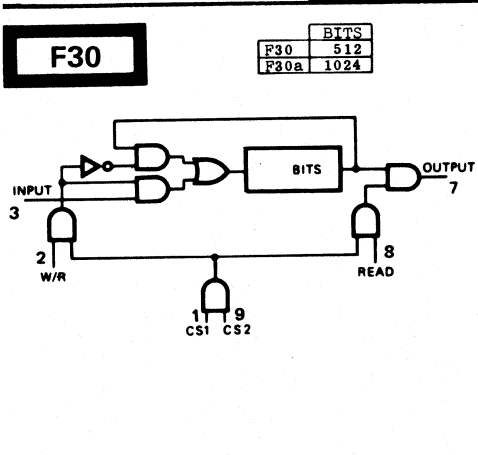


F25 See PN 8b
F25a See PN 14g
F25b See PN 14h
F25c See PN 14i
F25d See PN 8c
F25e See PN 14i
F25f See PN 14j

	NO. OF BITS	COMMENT
F29	256	3 MORE IDENTICAL REGISTERS
F29a	512	1 MORE IDENTICAL REGISTER
F29b	1024	ONLY REGISTER

22. LOGIC/BLOCK DRAWINGS

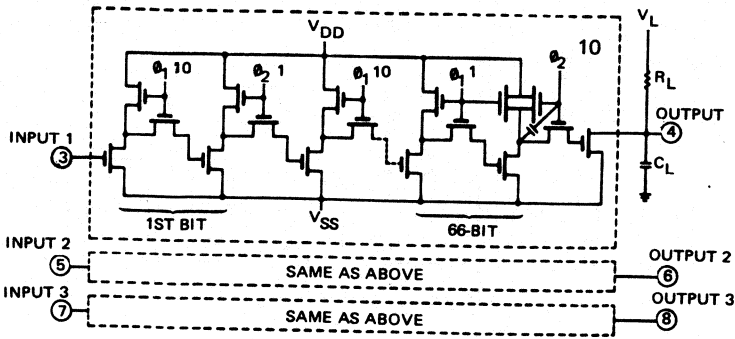
IN DRAWING NUMBER SEQUENCE



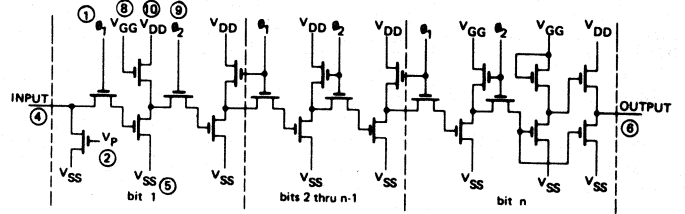
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

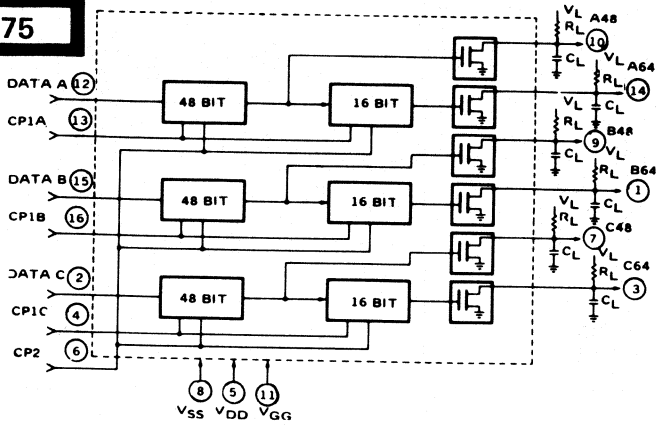
F73



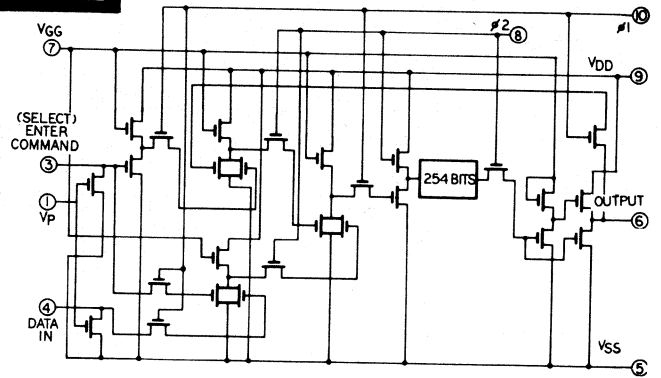
F74



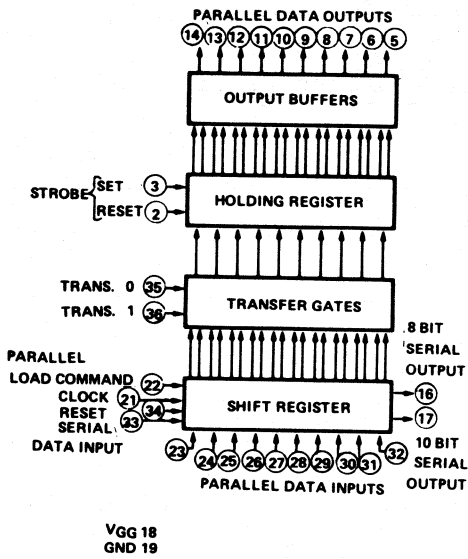
F75



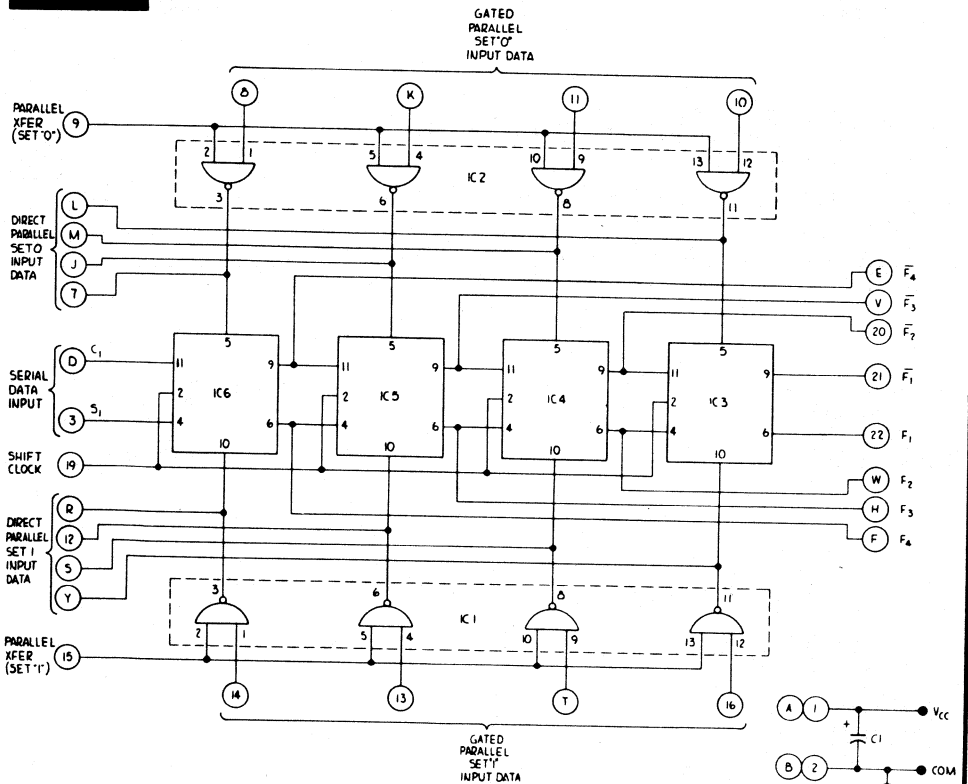
F76



F77

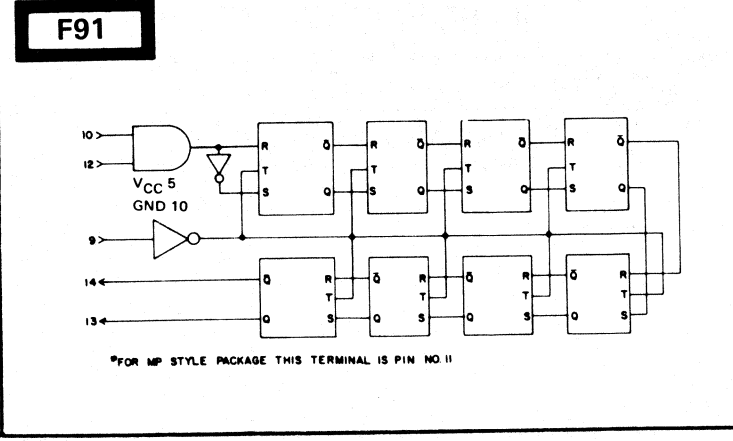
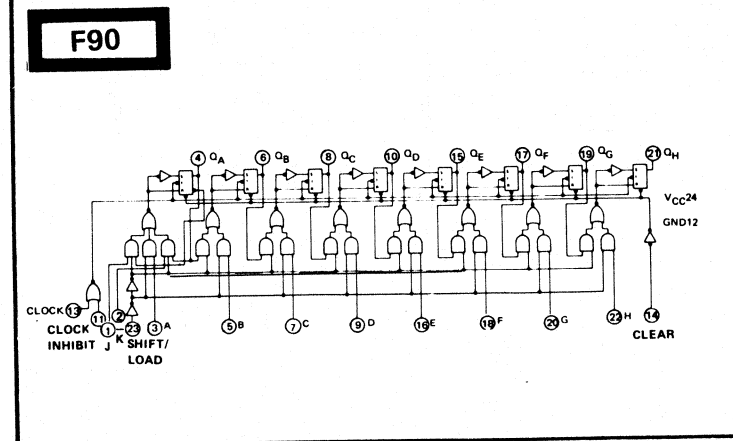
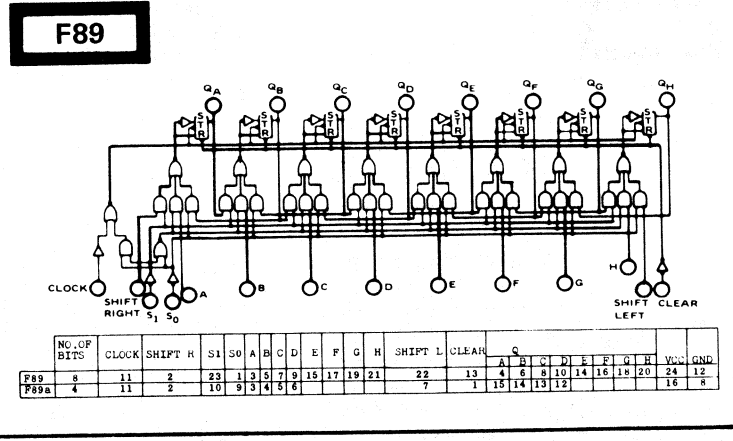
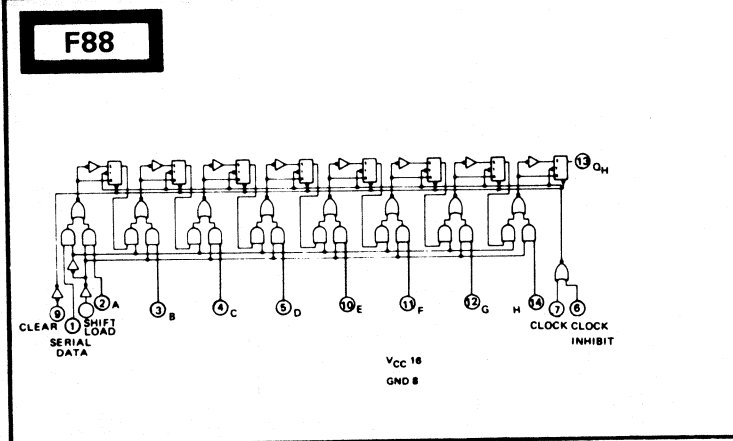
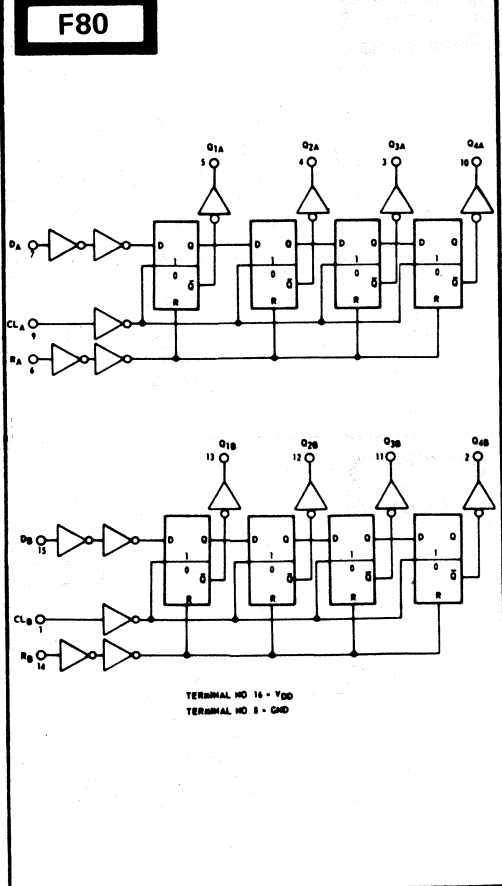
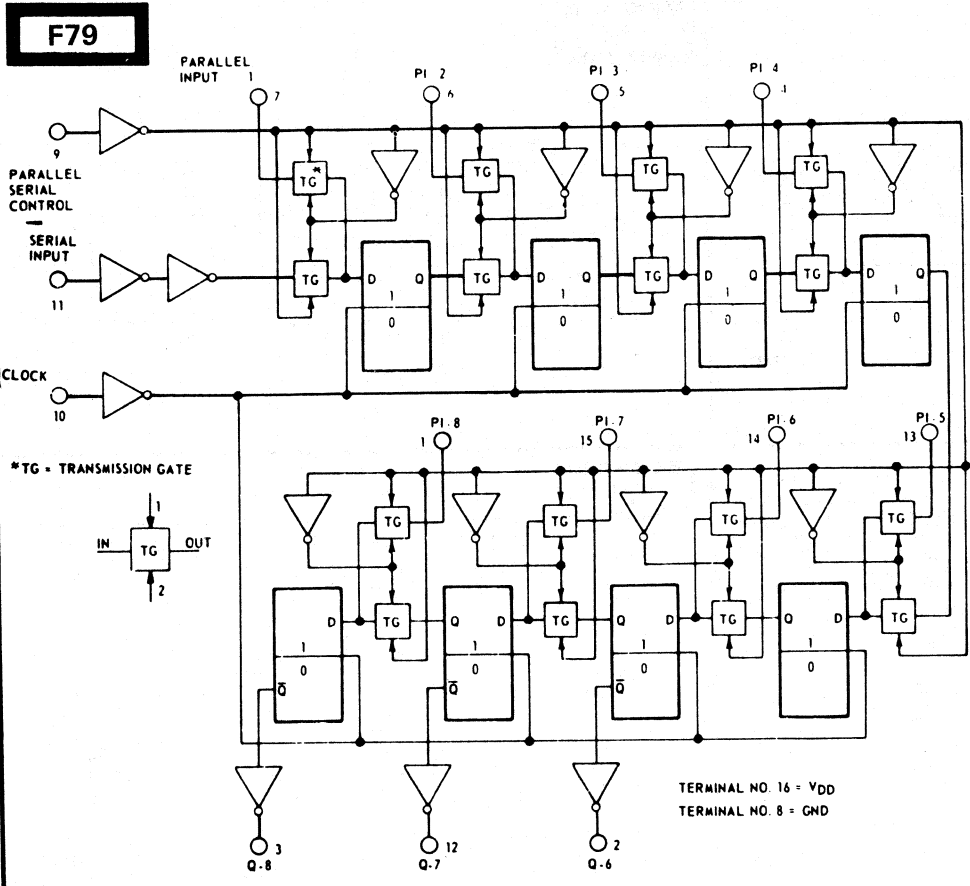


F78



22. LOGIC/BLOCK DRAWINGS

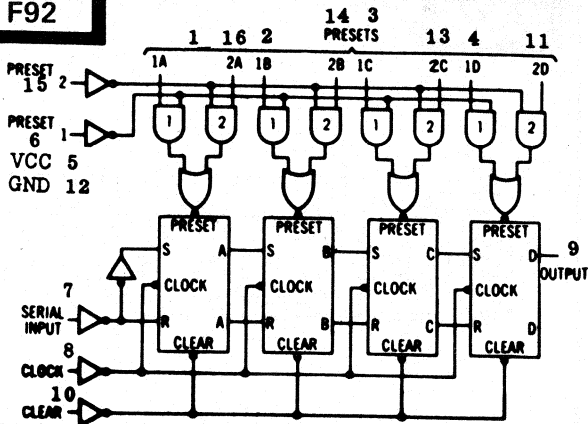
IN DRAWING NUMBER SEQUENCE



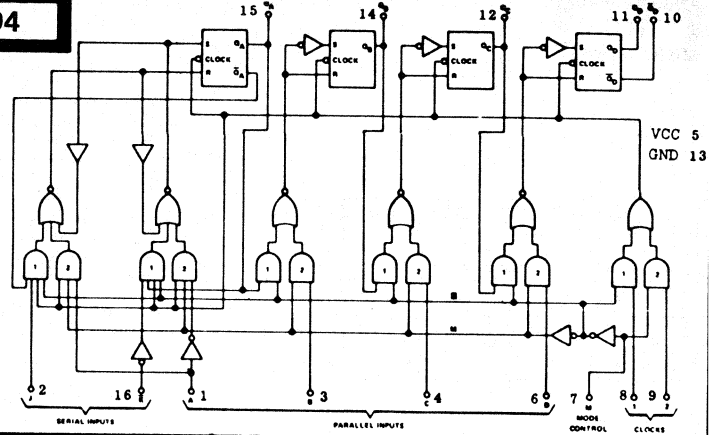
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

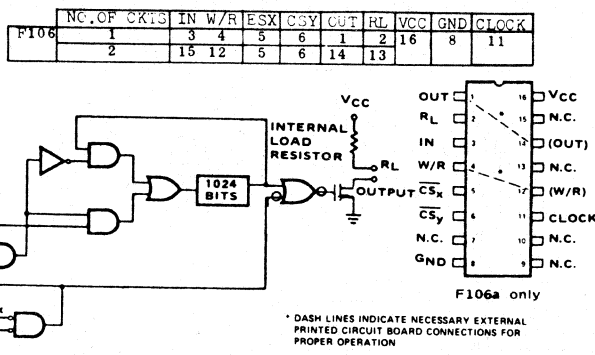
F92



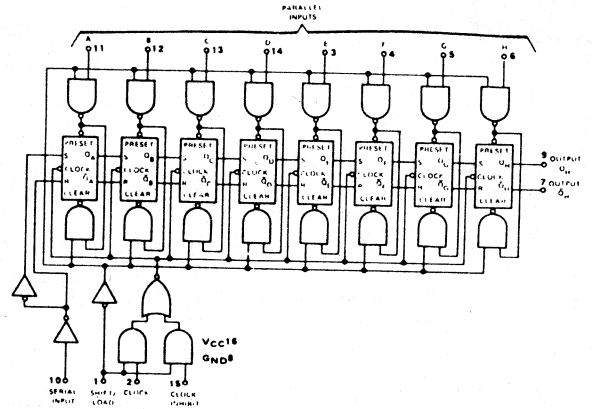
F94



F106

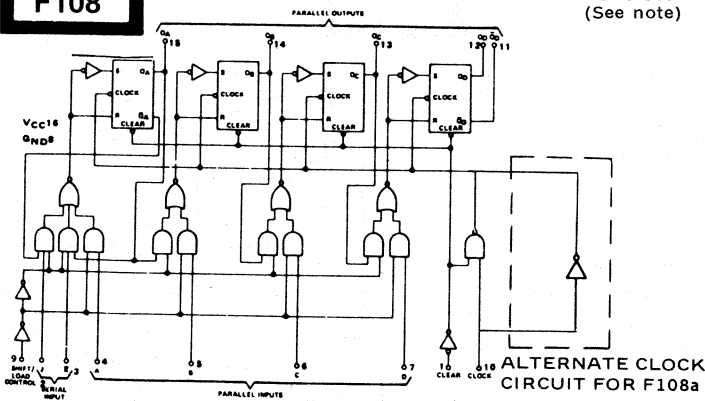


F107

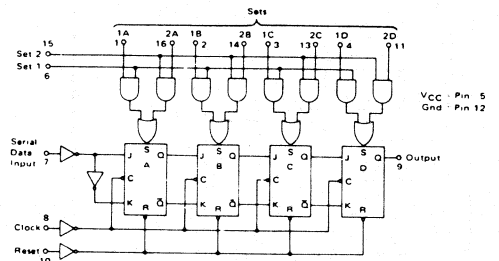


F108

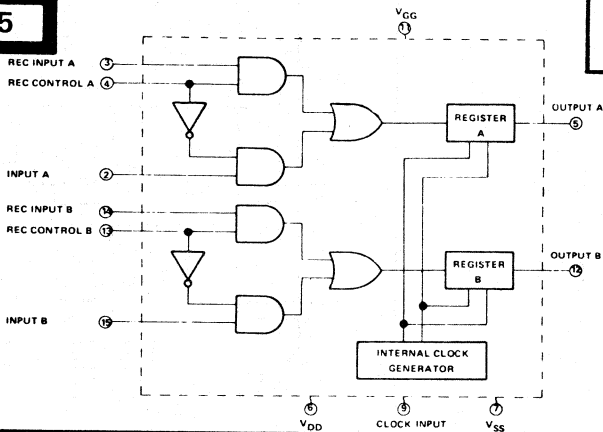
F108 See PN 16cz (See note)



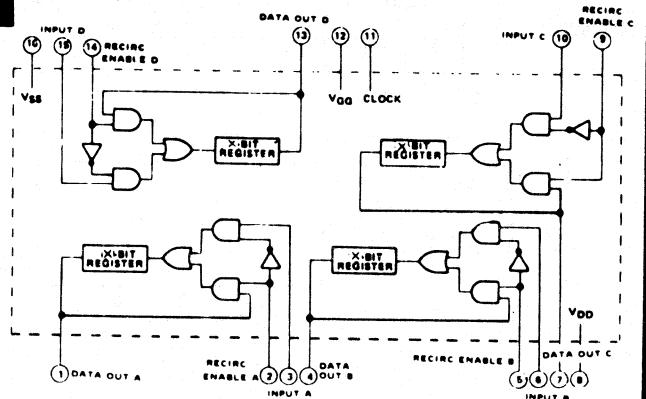
F110



F115



F119

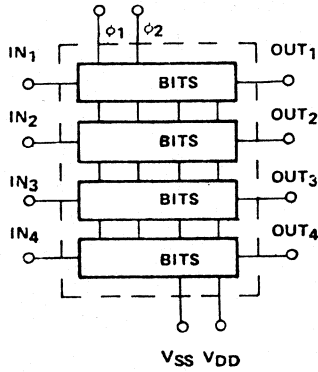


22. LOGIC/BLOCK DRAWINGS

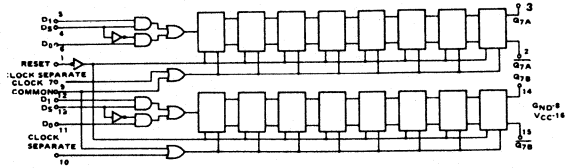
IN DRAWING NUMBER SEQUENCE

F120

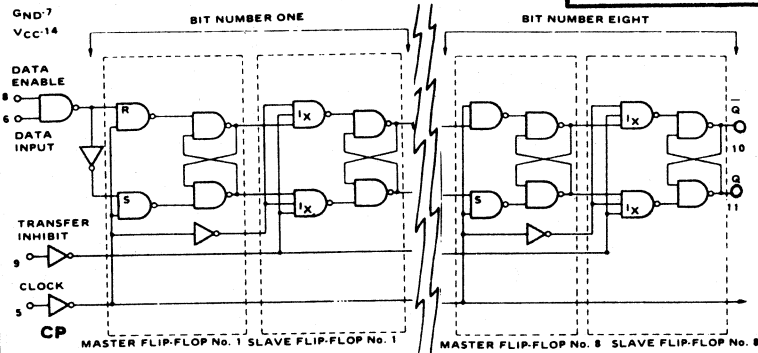
	REG	BITS	IN	OUT	Ø1	Ø2	VSS	VDD	GND
F120	1	256	3	1	4	11	5	12	
	2		8	6					
	3		10	9					
	4		16	14					
F120a	1	512	2	1	3	7	4	8	
	2		6	5					
F120b	1	1024	2	5	3	7	4	8	
F120c	1	512	3	14	4	11	5	12	
	2		10	6					
F120d	1	1024	3	6	4	11	5	12	



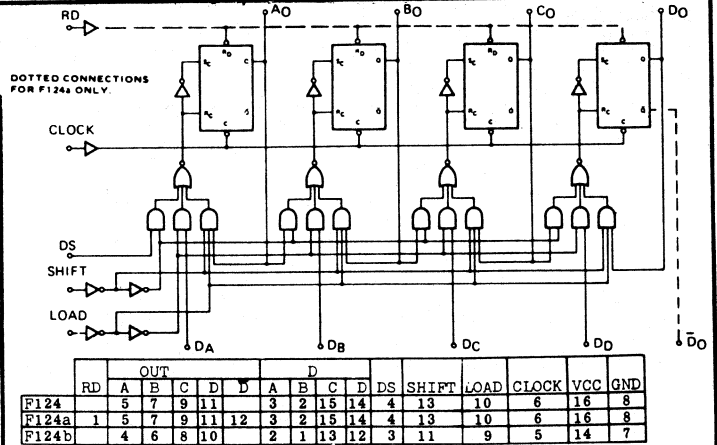
F122



F123

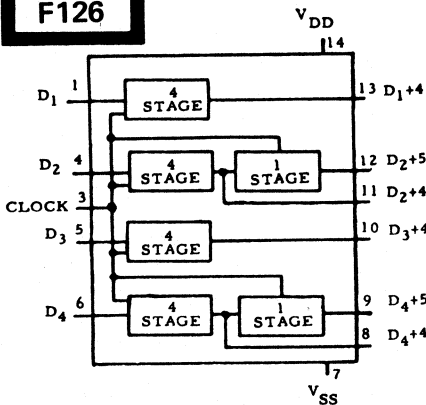


F124

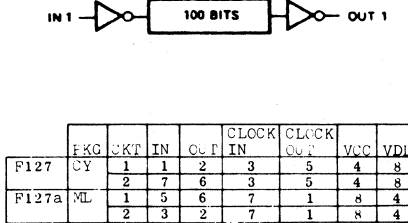


	RD	A	B	C	D	D	A	B	C	D	DS	SHIFT	LOAD	CLOCK	VCC	GND
F124	1	5	7	9	11	12	3	2	15	14	4	13	10	6	16	8
F124a	1	5	7	9	11	12	3	2	15	14	4	13	10	6	16	8
F124b	1	4	6	8	10	11	2	1	13	12	3	11	9	5	14	7

F126

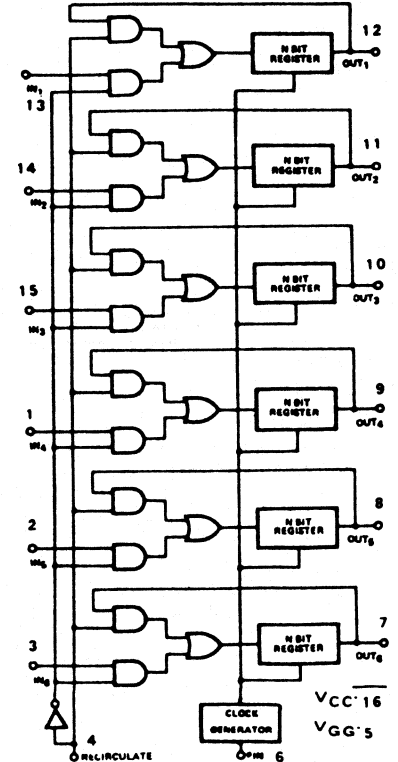


F127



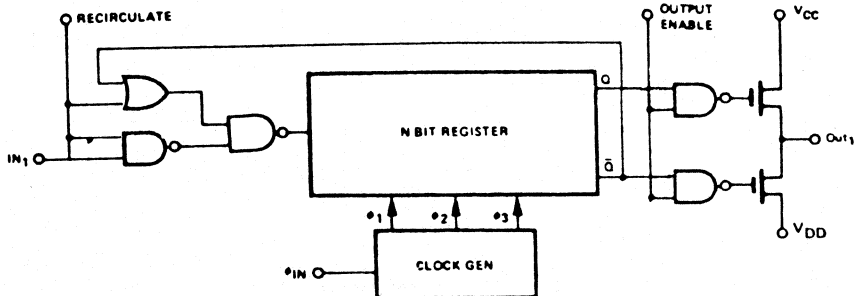
	PKG	SKT	IN	OUT	CLOCK IN	CLOCK OUT	VCC	VDD
F127	CY	1	1	2	3	5	4	8
F127a	ML	2	7	6	3	5	4	8
		1	5	6	7	1	8	4
		2	3	2	7	1	8	4

F129



F128

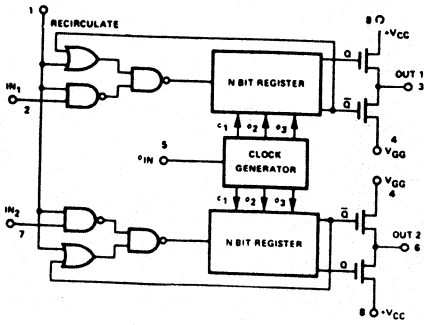
	PKG	SKT	RECIRCULATE	IN	OUT	ØIN	OUTPUT ENABLE	VCC	VDD	VGG
F128	ML	1	1	2	3	8	9	14	7	10
		2		13	12					
F128a	CY	1	10	1	2	4	6	5	3	7
		2		9	8					



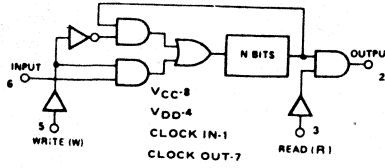
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

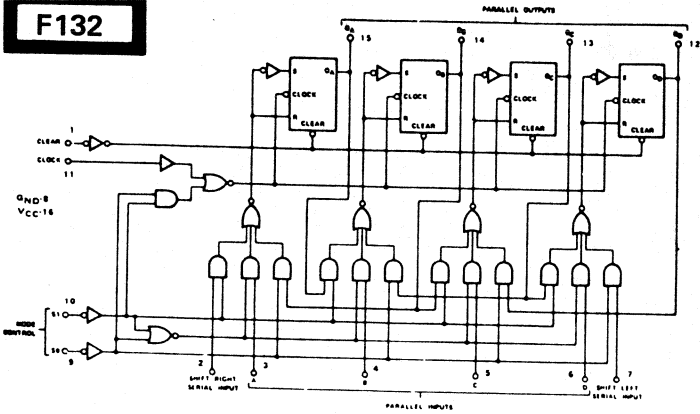
F130



F131



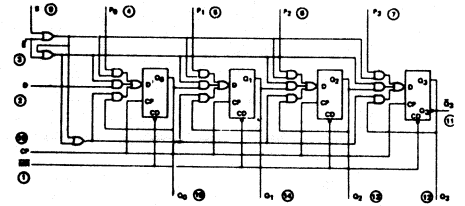
F132



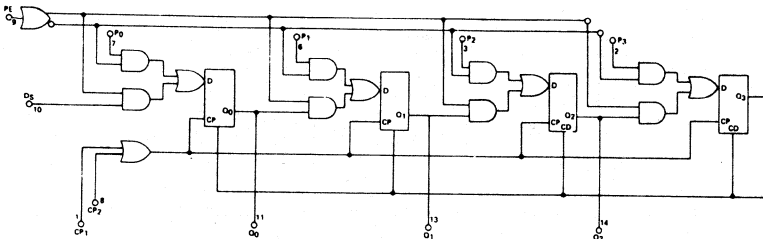
F140c

see PN16dd

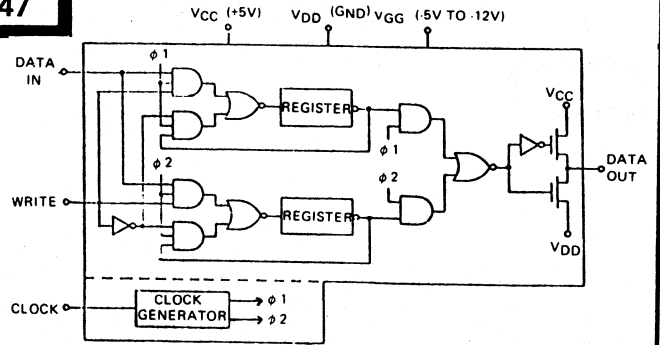
F141



F142

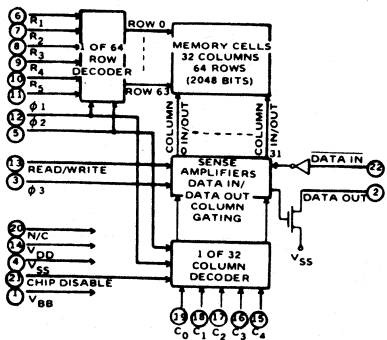


F147

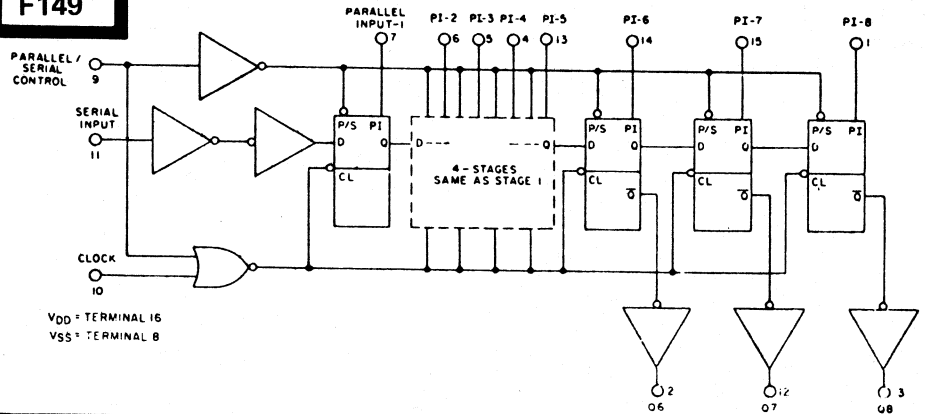


PKG	DATA IN				DATA OUT				CLOCK	WRITE	VCC	VGG	VDD	
	1	2	3	4	1	2	3	4						
F147	ML	3	6	9	12	2	7	8	14	4	13	1	5	10
F147a	CN	3	6	9	12	4	5	NC	NC	10	2	1	9	8
F147b	CN	3	6	9	12	4	5	NC	NC	10	2	1	9	8
F147c	ML	6	9	NC	NC	8	NC	NC	NC	2	4	1	14	13
F147d	ML	6	9	NC	NC	7	8	NC	NC	2	4	1	14	13

F148



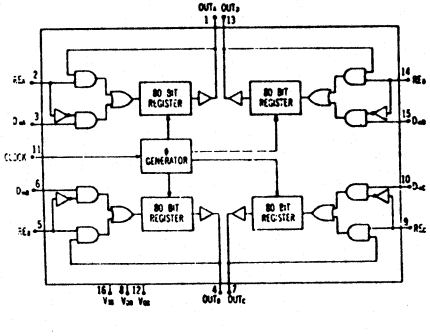
F149



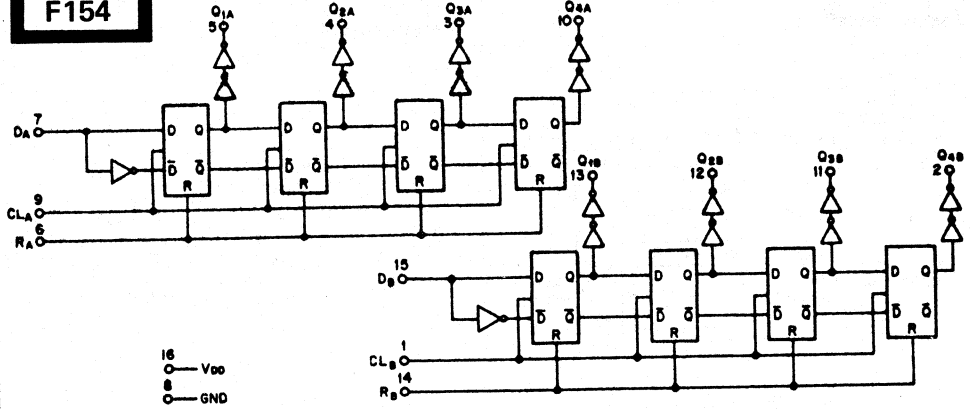
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

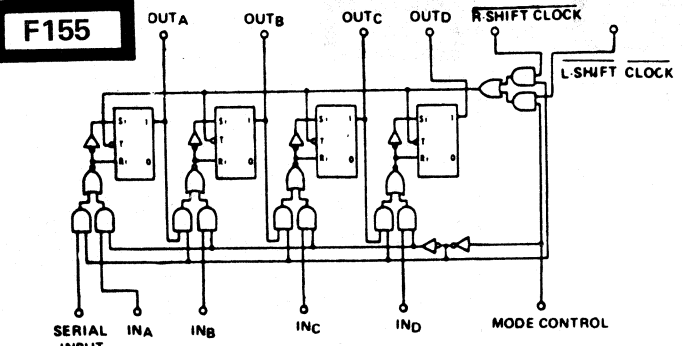
F152



F154

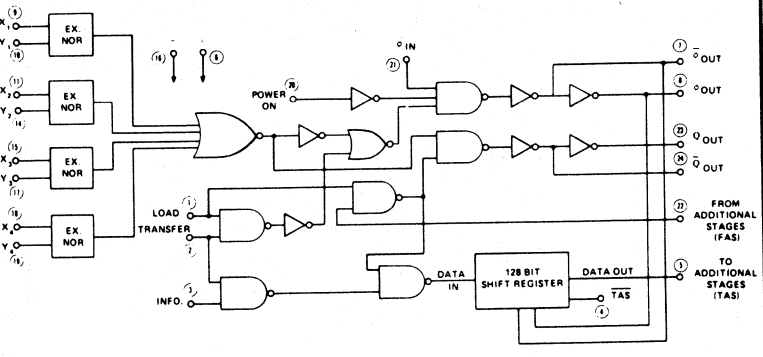


F155

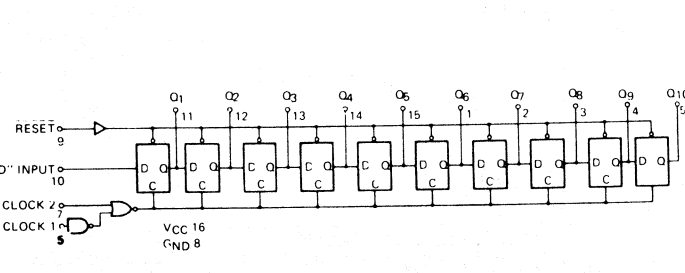


F155	SERIAL INP	INPUT				OUTPUT				R-SHIFT CLOCK	L-SHIFT CLOCK	MODE CONTROL	VCC	GND
		A	B	C	D	A	B	C	D					
F155	1	2	3	4	5	13	12	11	10	9	8	6	14	7
F155a	1	14	2	3	5	13	12	10	9	7	8	6	4	11

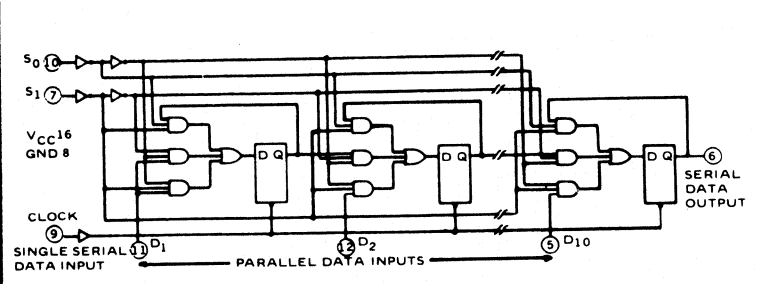
F165



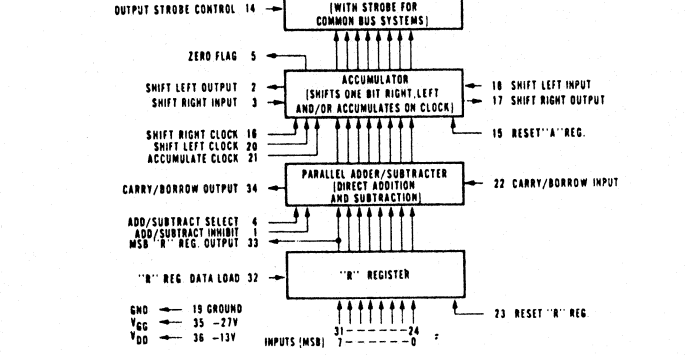
F167



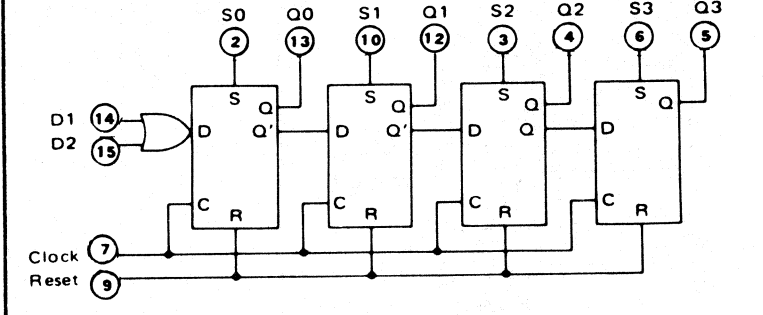
F168



F171



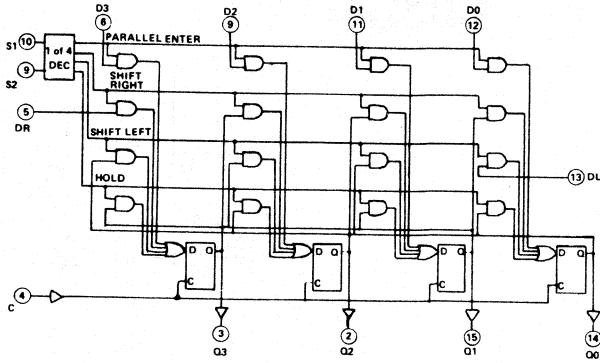
F173



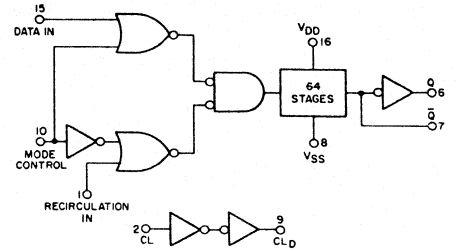
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

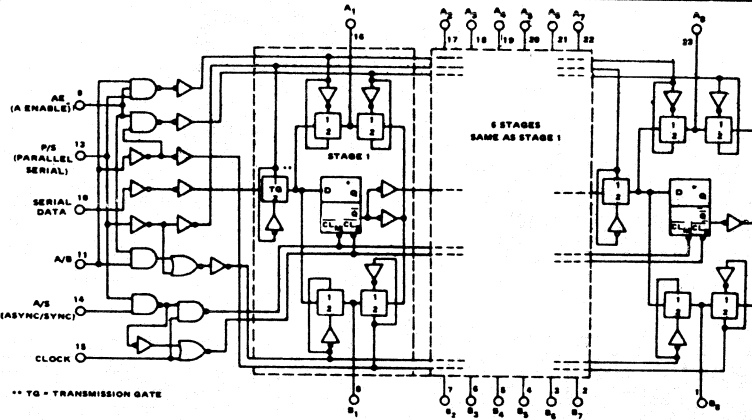
F174



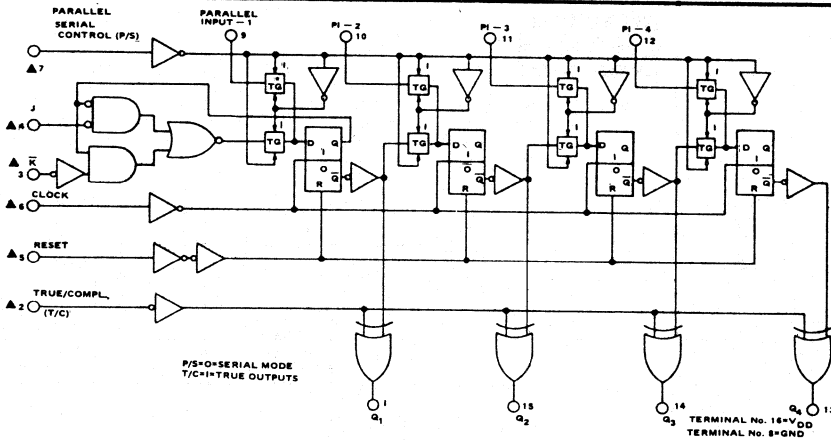
F176



F177

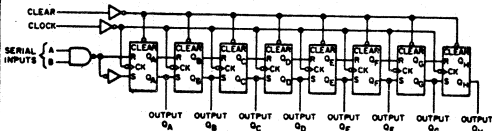


F178

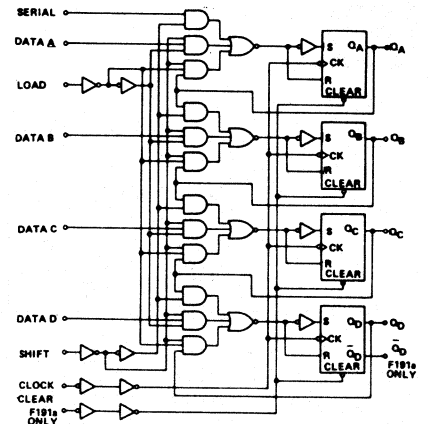
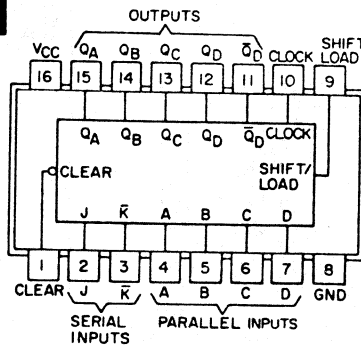


F179

F179 See PN 14n
F179a See PN 14o



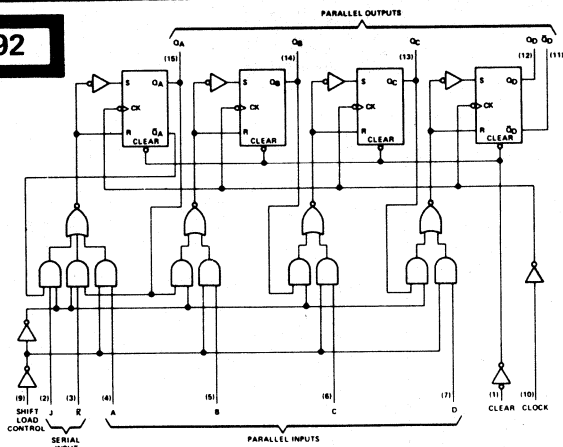
F191



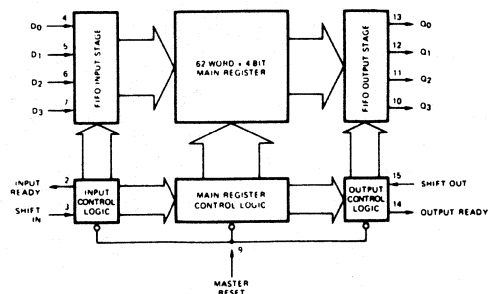
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

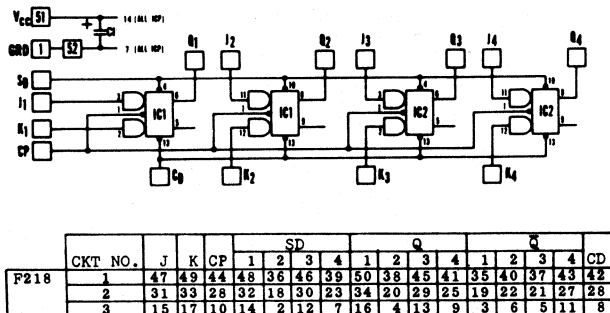
F192



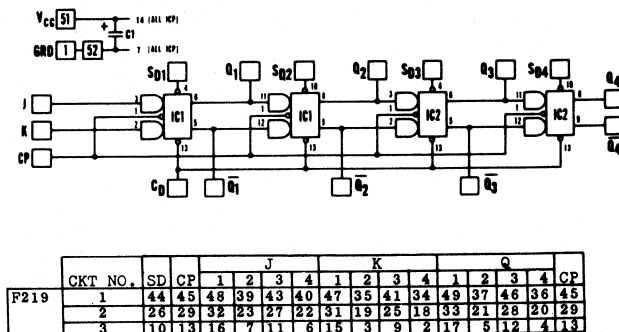
F209



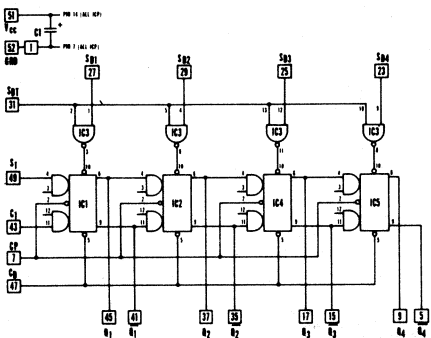
F218



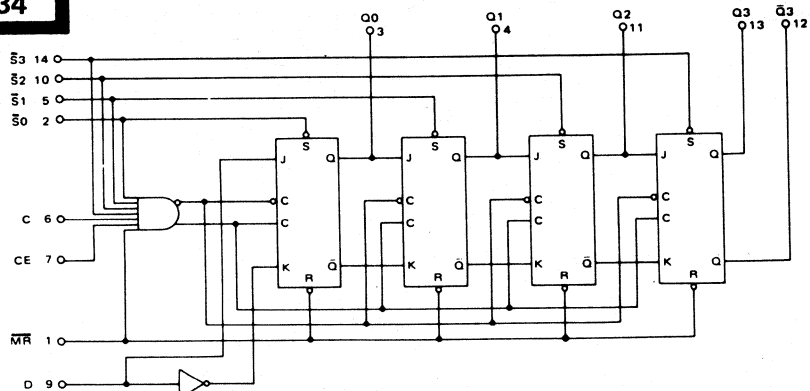
F219



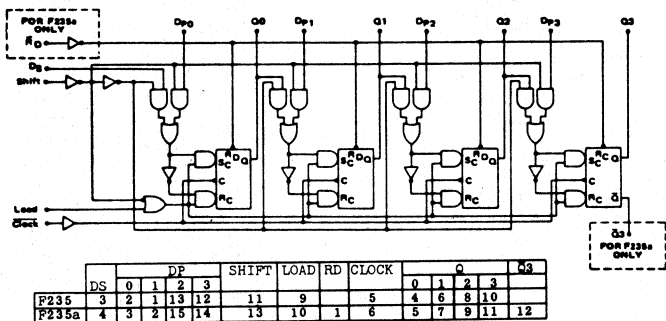
F220



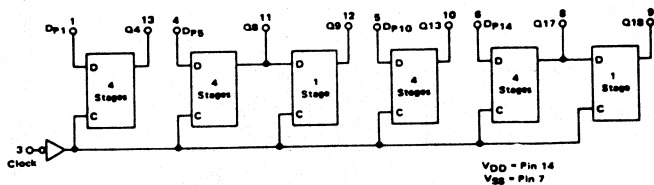
F234



F235



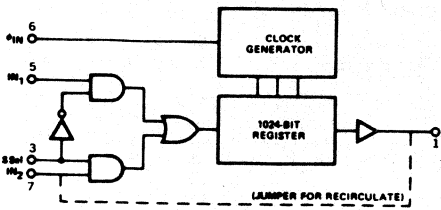
F236



22. LOGIC/BLOCK DRAWINGS

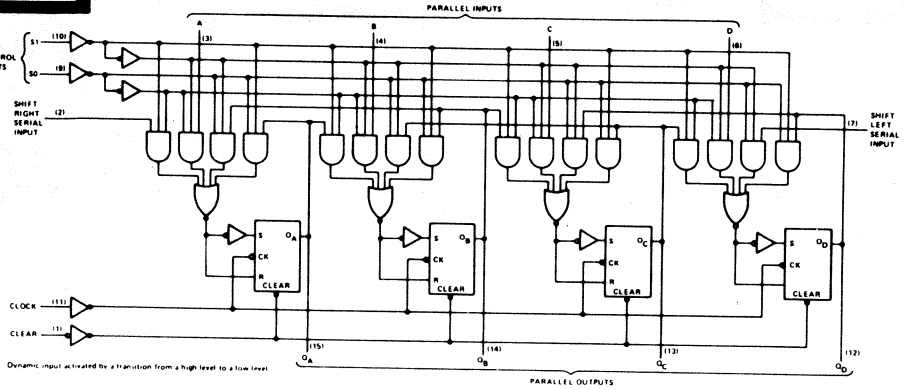
IN DRAWING NUMBER SEQUENCE

F238

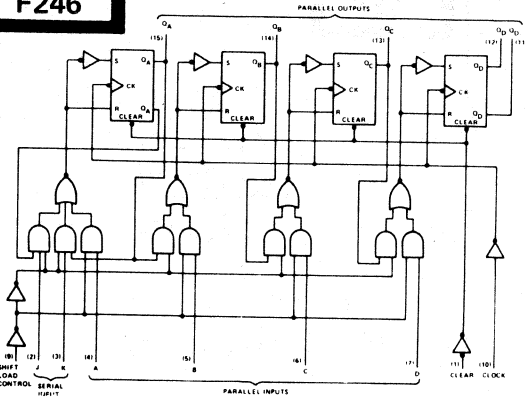


	2	4	8
F238	VGG	VDD	VCC (GND)
F238a	GND	VCC	VCC
F238d	VGG	VDD (GND)	VCC

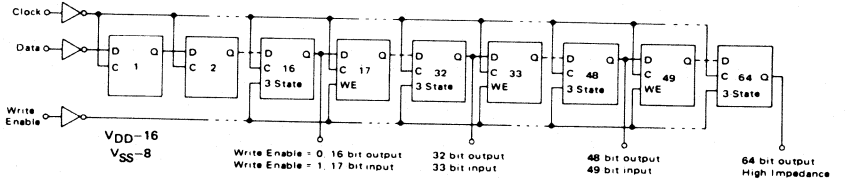
F245



F246

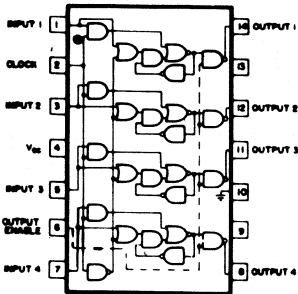


F248



CKT	CLOCK	16OUT/17IN	48OUT/49IN	WE	64OUT	32OUT/33IN	DATA
F248	1	4	1	3	5	6	7
	2	12	15	14	13	11	10

F250

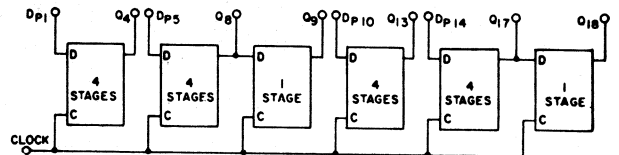


F250—TWO 5K PULLUP RESISTORS ARE PROVIDED IN THE PACKAGE AND ARE INTERNALLY CONNECTED TO V_{CC} AND BROUGHT OUT ON PINS 9 AND 13.

F250a—OUTPUT ENABLE AND ALL CONNECTIONS EXCLUDED. (DOTTED LINE PORTION.)

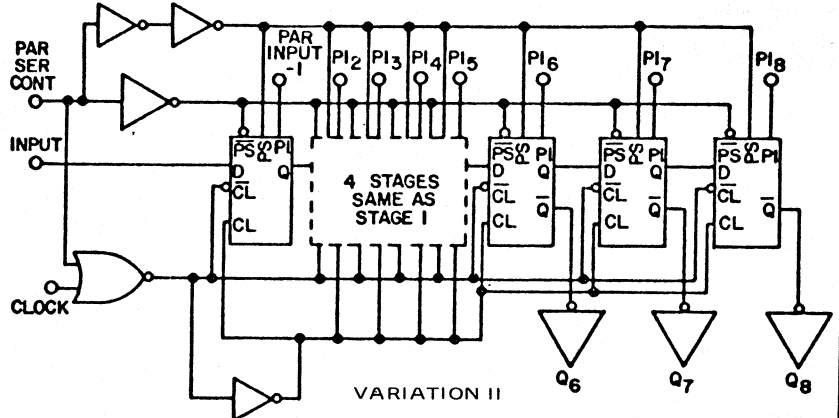
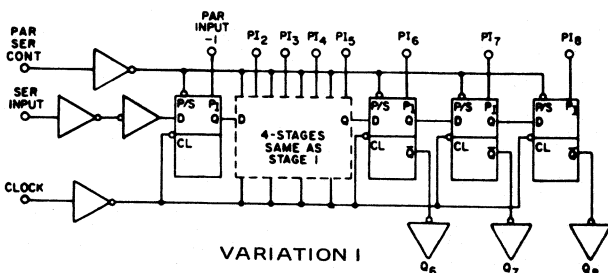
F251

F251 See PN 14K



F252

F252 See PN 16dp

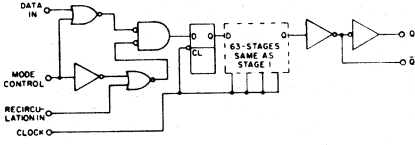


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

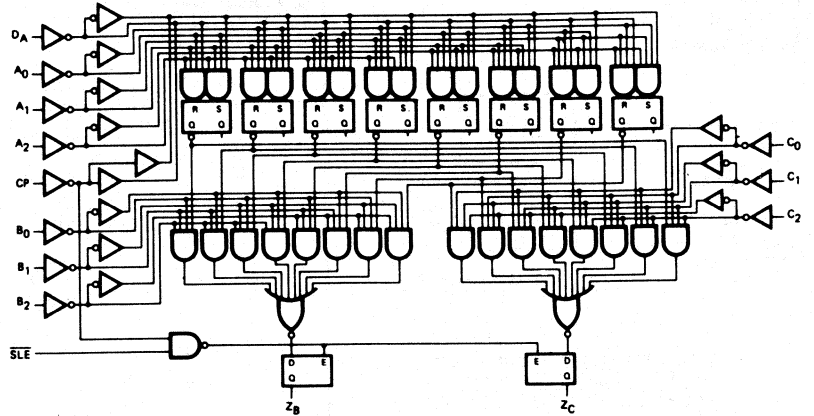
F253

F253 See PN 16n

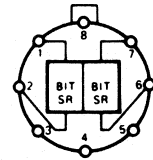


F254

F254 See PN 16do



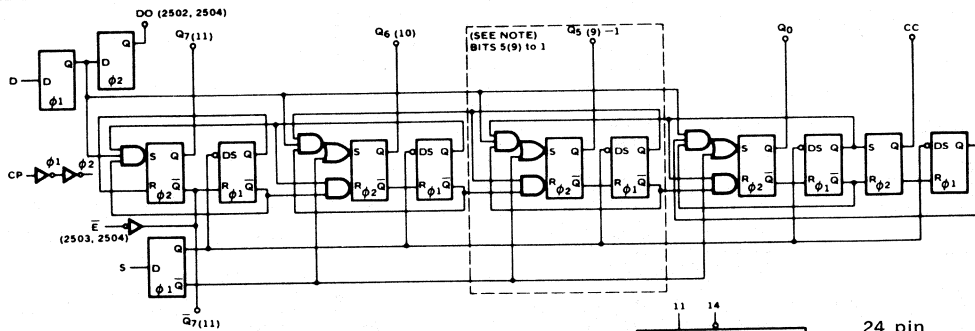
F256



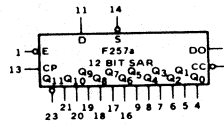
	PIN NUMBERS							
	1	2	3	4	5	6	7	8
F256	Inp1	OUTP1	φ2	VCC	φ1	OUTP2	Inp2	VDD
F256a	Inp1	OUTP1	Vφ	VSS	VGG	OUTP2	Inp2	VDD

F257

F257 See PN 16du



NOTE:
NUMBERS IN PARENTHESES ARE FOR F257a.

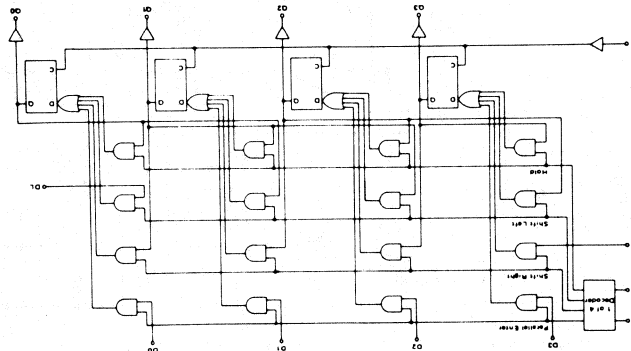


24 pin

VCC = Pin 16
GND = Pin 12
NC = Pins 10, 15, 22

F258

DIP pin outs See PN 16dr
Flatpak pin outs See PN 16dq

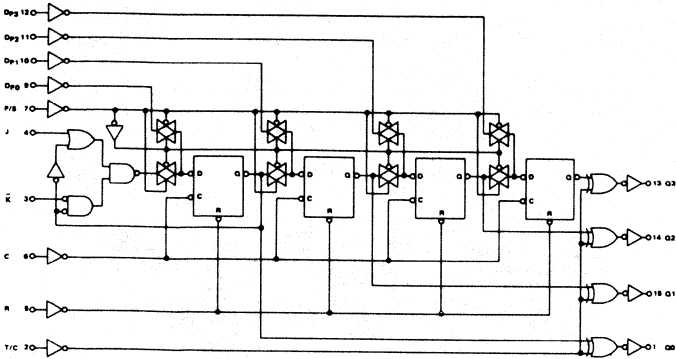


22. LOGIC/BLOCK DRAWINGS

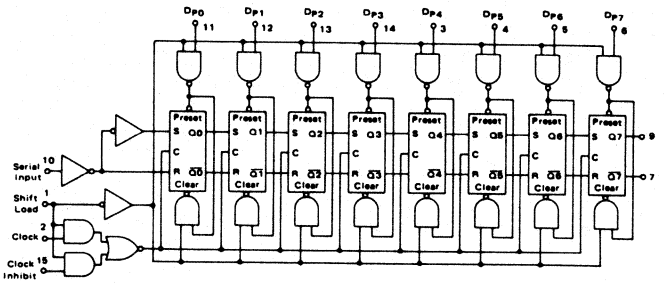
IN DRAWING NUMBER SEQUENCE

F259

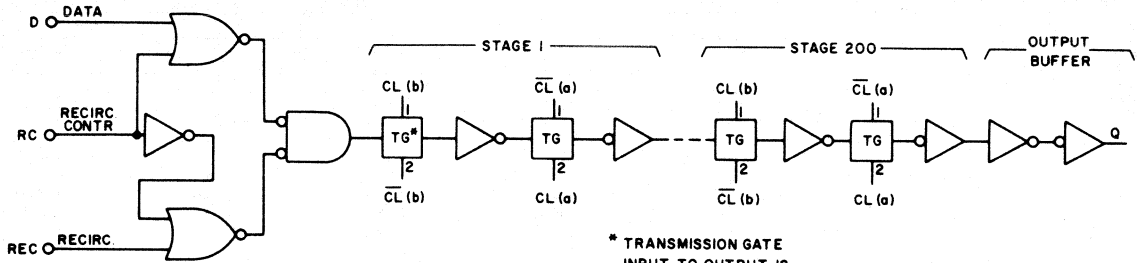
F259 See PN 16dt



F261



F262



* TRANSMISSION GATE

INPUT TO OUTPUT IS:

(a) A BIDIRECTIONAL LOW IMPEDANCE WHEN CONTROL INPUT IS "LOW" AND CONTROL INPUT 2 IS "HIGH"

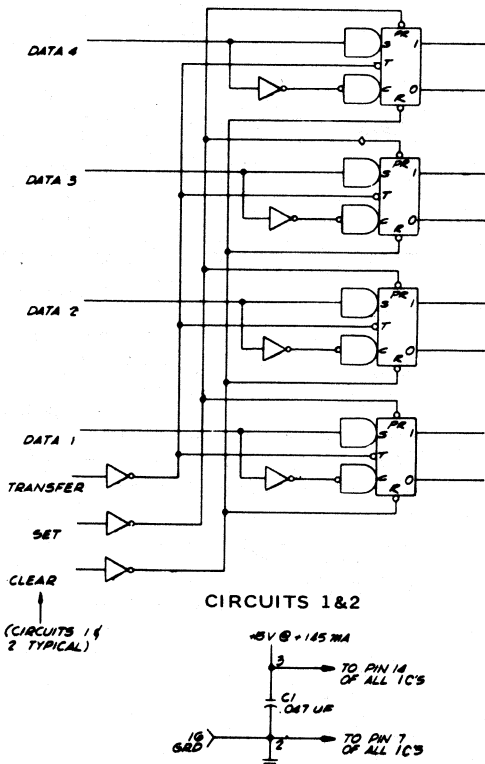
(b) AN OPEN CIRCUIT WHEN CONTROL INPUT 1 IS "HIGH" AND CONTROL INPUT 2 IS "LOW"

CL₁ = PHASE 1 OF 2-PHASE CLOCK
 CL_{1D} = DELAYED CL₁
 CL₂ = PHASE 2 OF 2-PHASE CLOCK
 CL_{2D} = DELAYED CL₂

CL (a) = INTERNAL CLOCK IN PHASE WITH CL₁
 CL (b) = INTERNAL CLOCK IN PHASE WITH CL₂

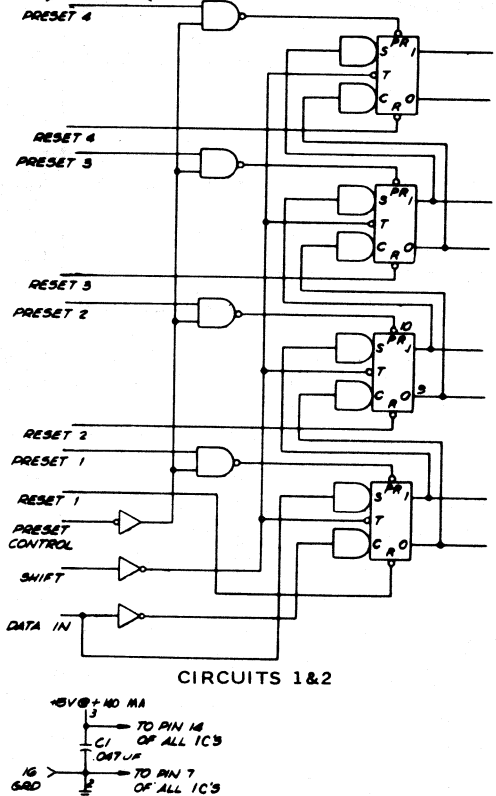
F262 See PN 16dr

F263



F264

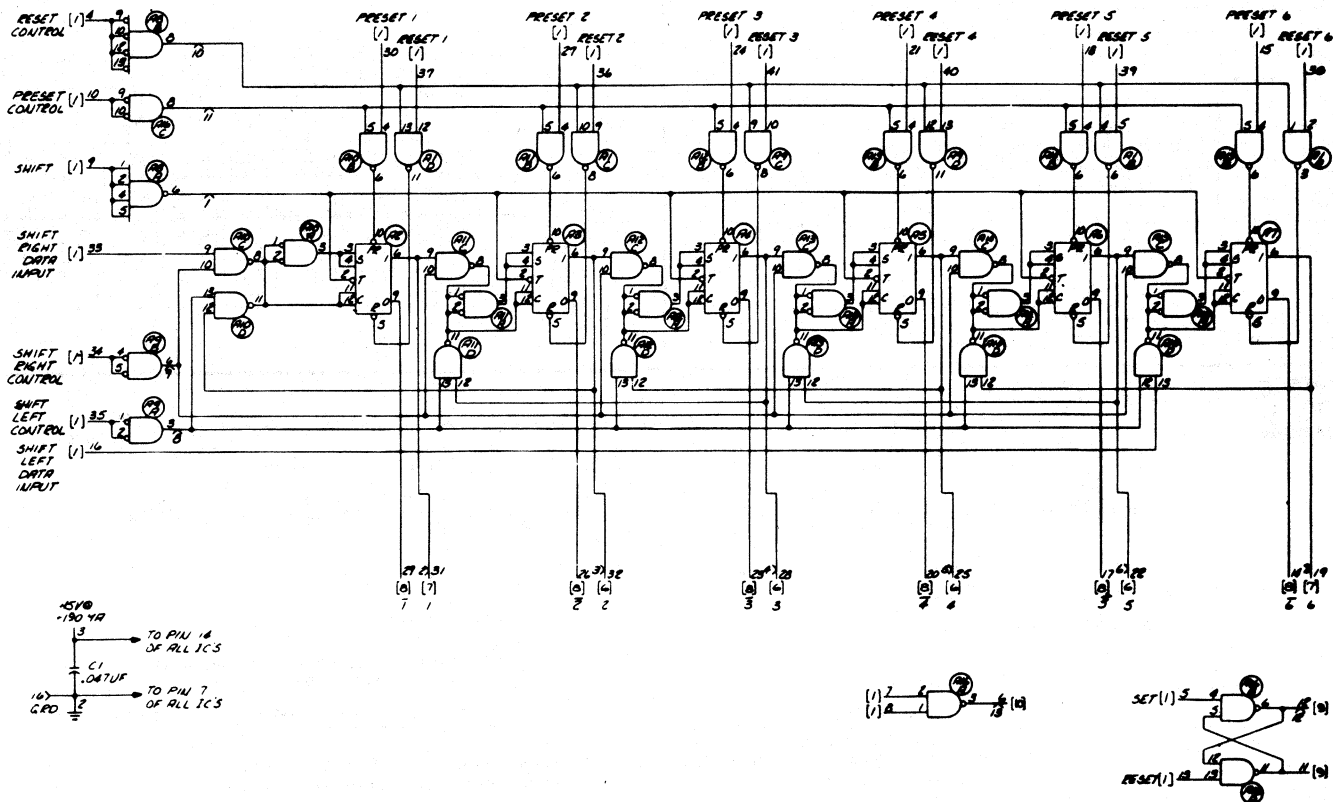
TYPICAL (CIRCUITS 1 AND 2)



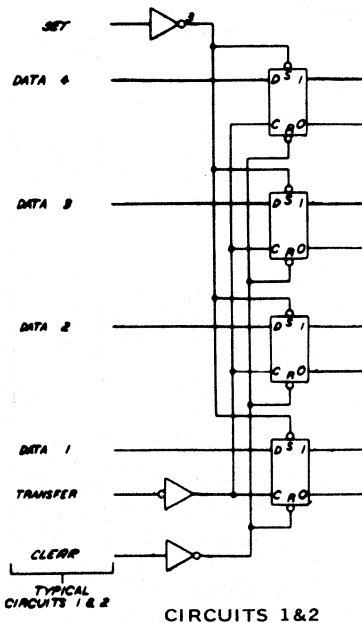
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

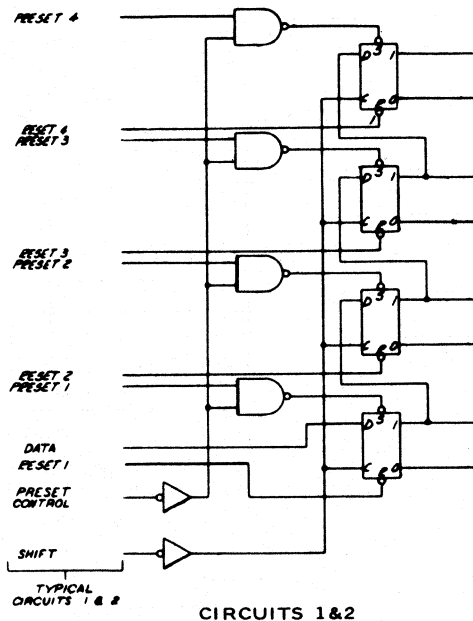
F265



F266



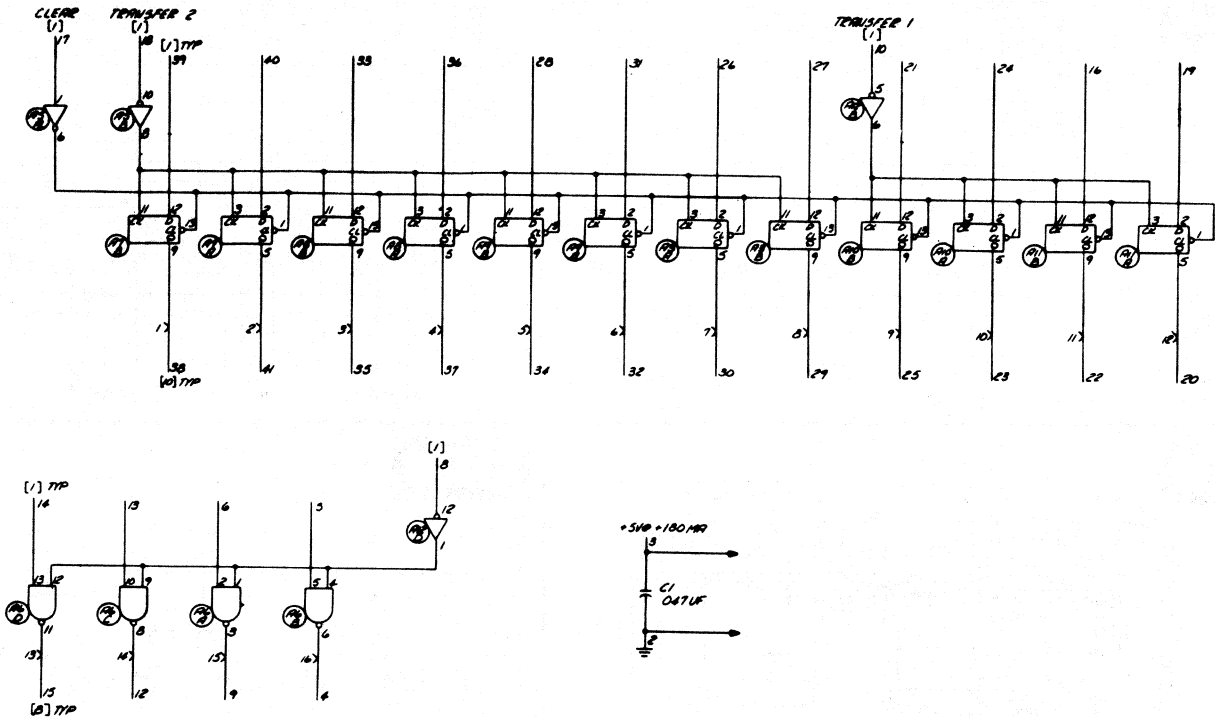
F267



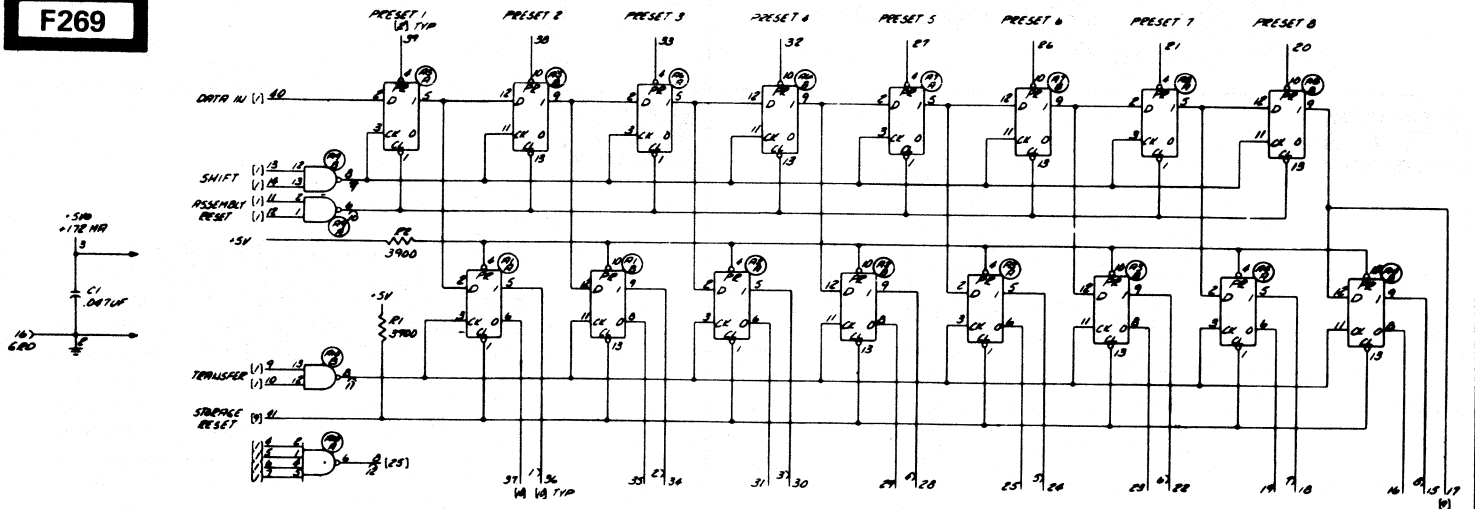
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

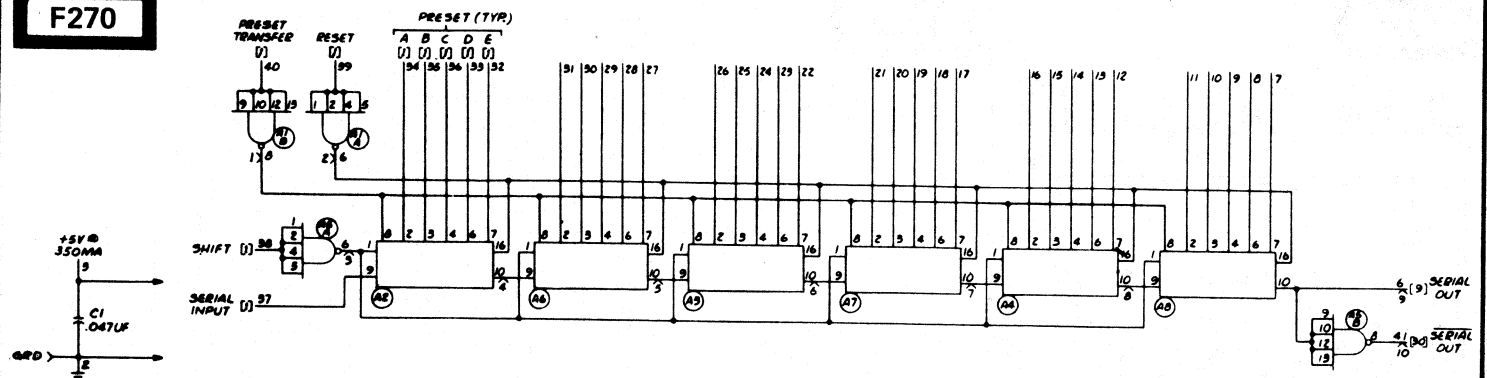
F268



F269



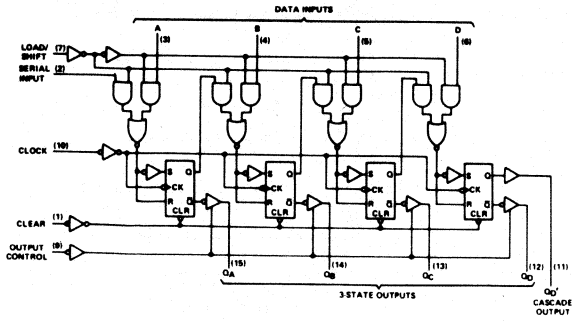
F270



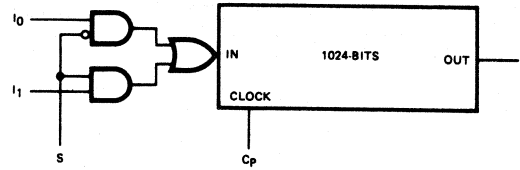
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

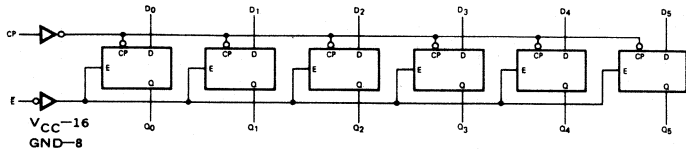
F283



F287

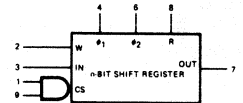


F284



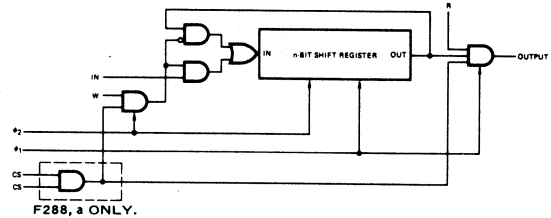
F288

F288 See PN 80

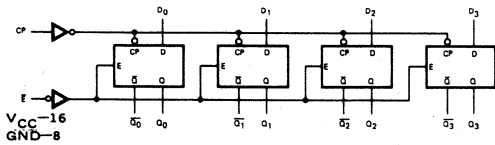


F288 - n=512
F288a - n=1024

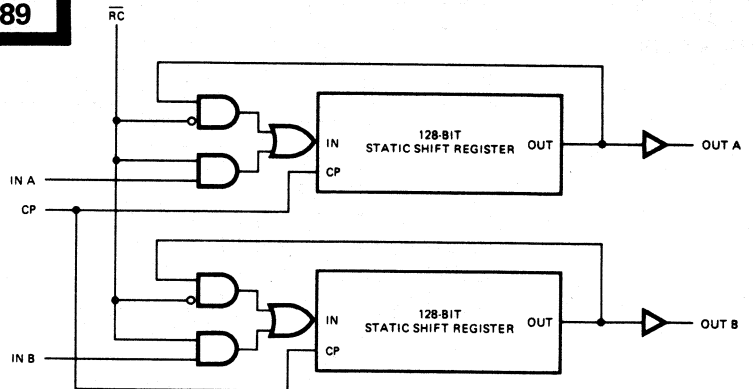
V_{CC} = Pin 5
V_{DD} = Pin 10



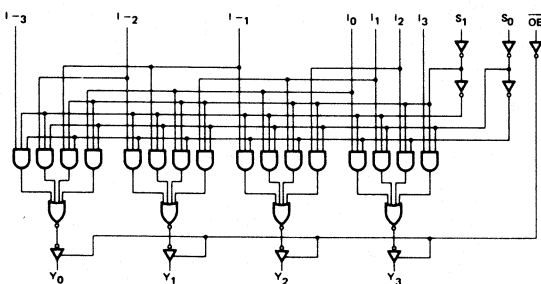
F285



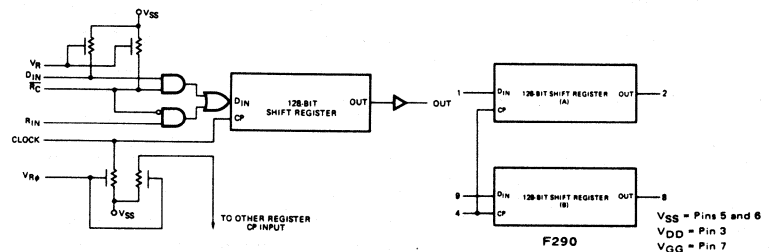
F289



F286



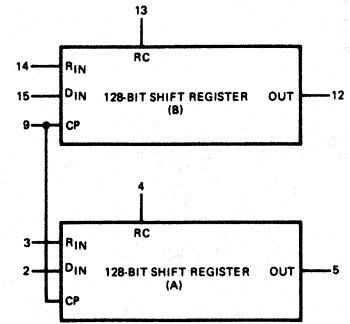
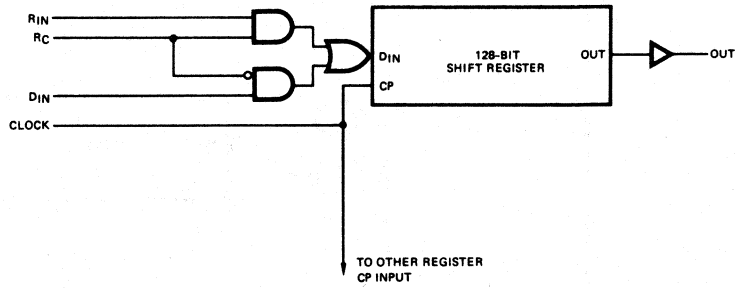
F290



22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

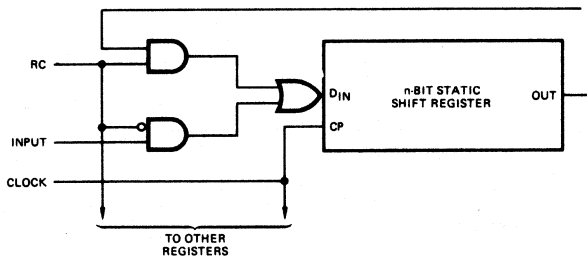
F291



VSS = Pin 7
VDD = Pin 6
VGG = Pin 11

F292

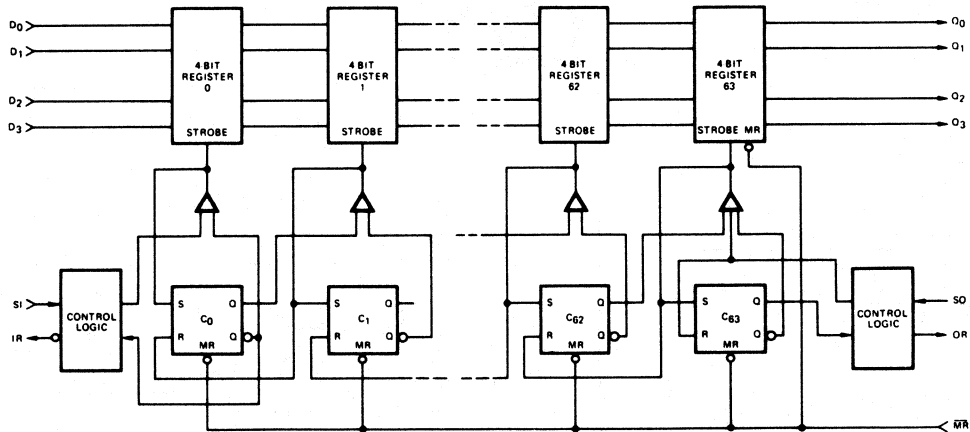
F292 see PN 16dz, 10e, 8g



F292 - n=128
F292a - n=256
F292b - n=512

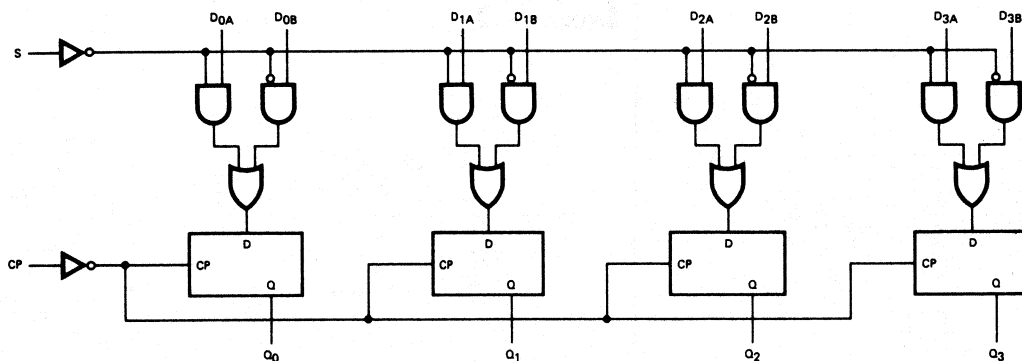
F294

F294 see PN 16ea



F295

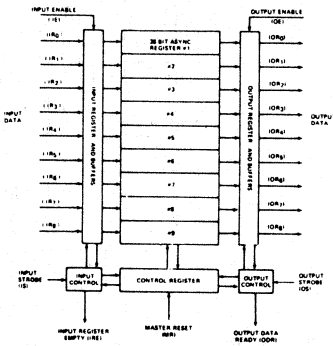
F295 see PN 16eb



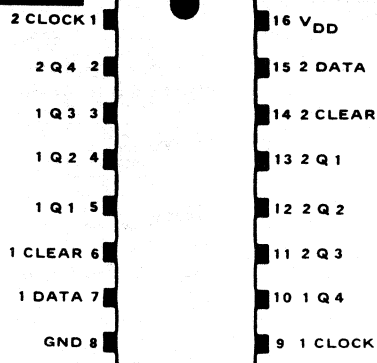
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

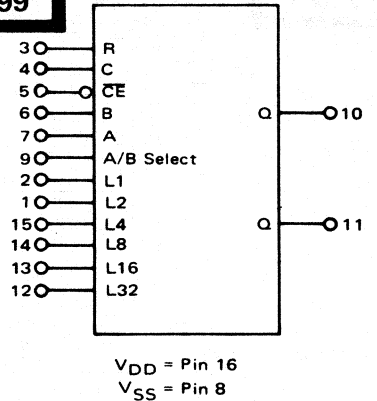
F297



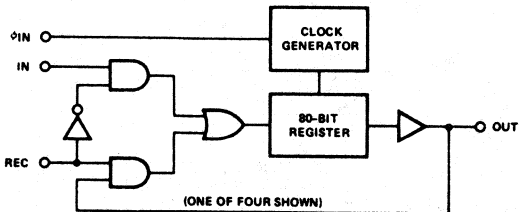
F298



F299



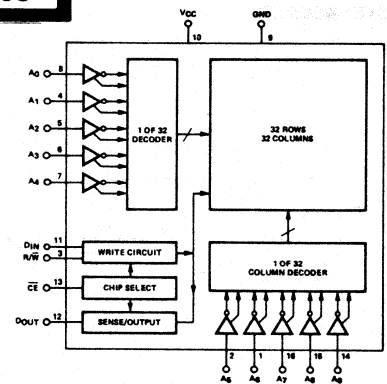
F303



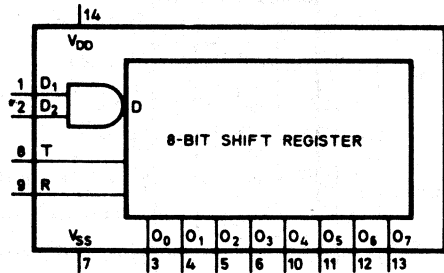
- | | |
|-----------------------------|-----------------------|
| 1. OUT 1 | 16. V _{CC} |
| 2. Recirculate 1 | 15. IN 4 |
| 3. IN 1 | 14. Recirculate 4 |
| 4. OUT 2 | 13. OUT 4 |
| 5. Recirculate 2 | 12. V _{GG} * |
| 6. IN 2 | 11. φ IN |
| 7. OUT 3 | 10. IN 3 |
| 8. V _{DD} (Ground) | 9. Recirculate 3 |

*F303a = NC

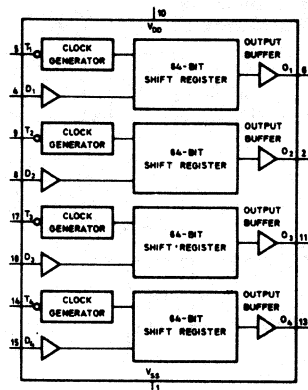
F306



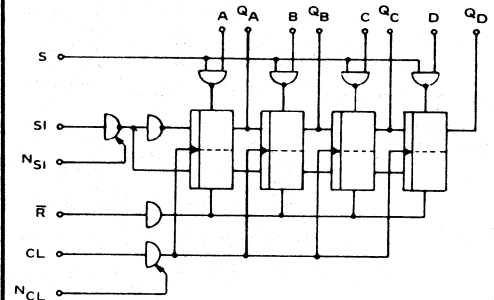
F317



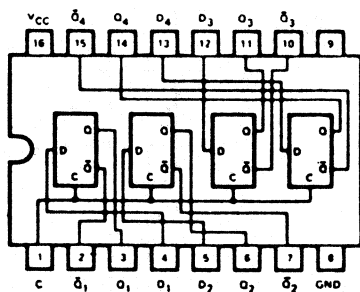
F318



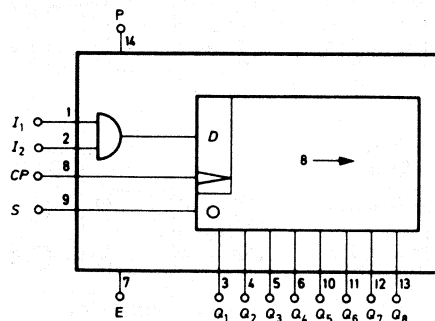
F321



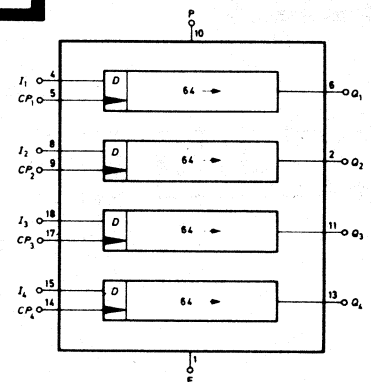
F324



F326

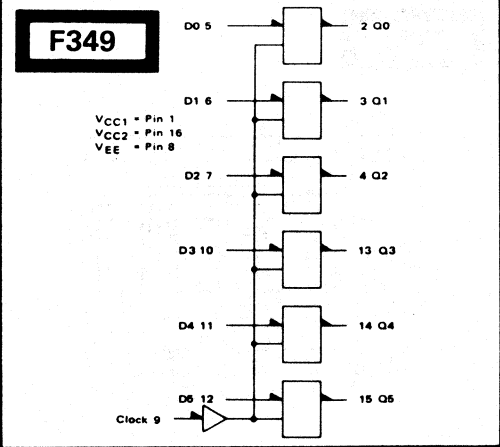
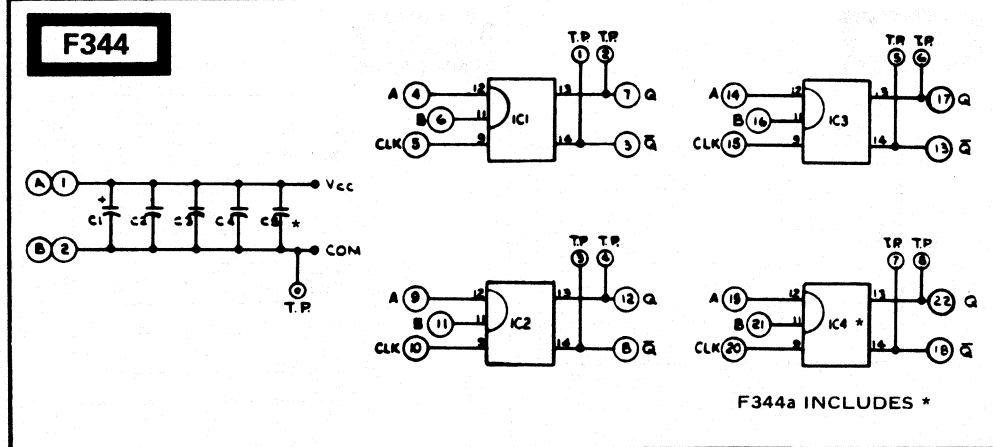
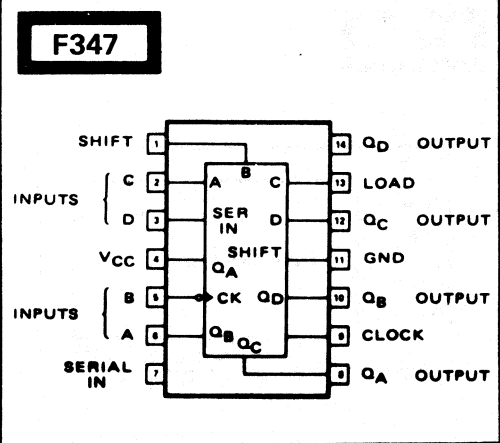
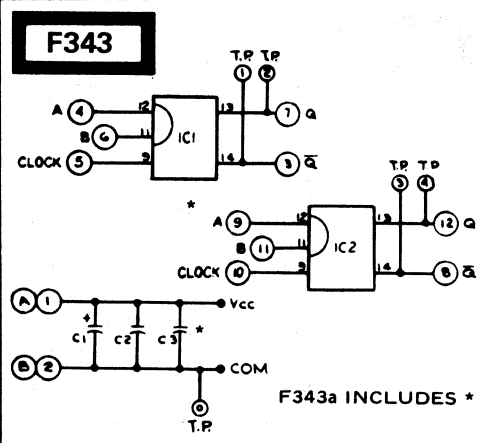
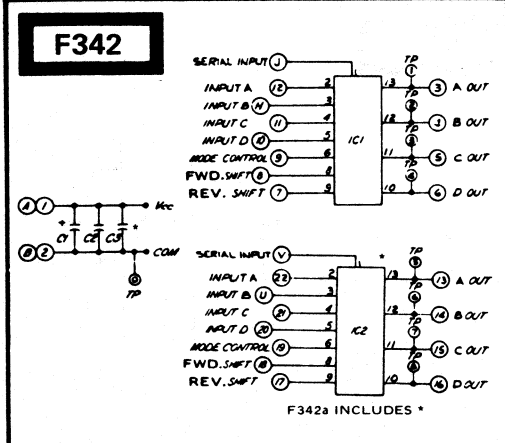
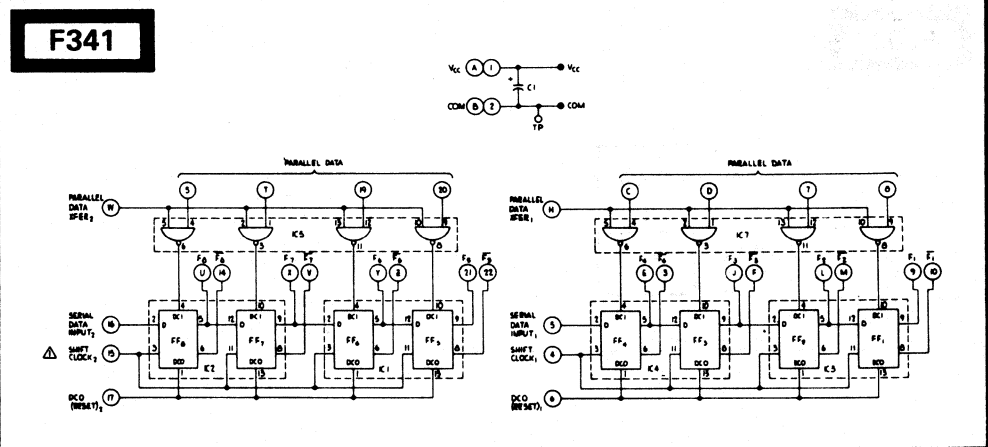
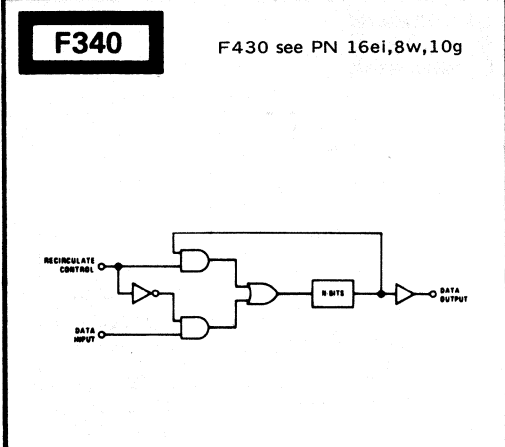
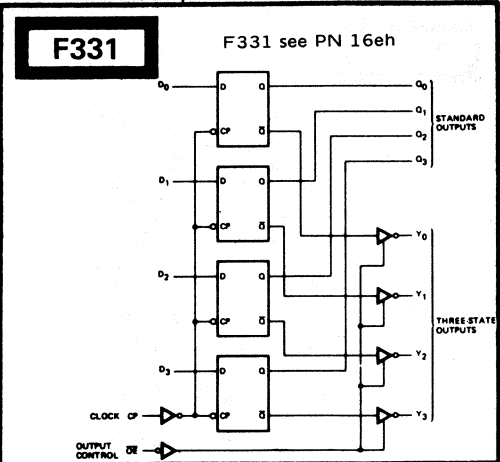
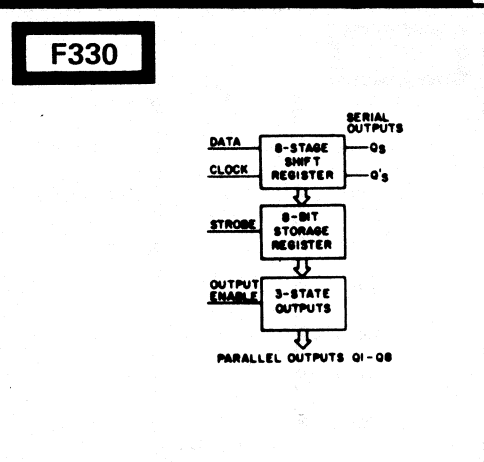
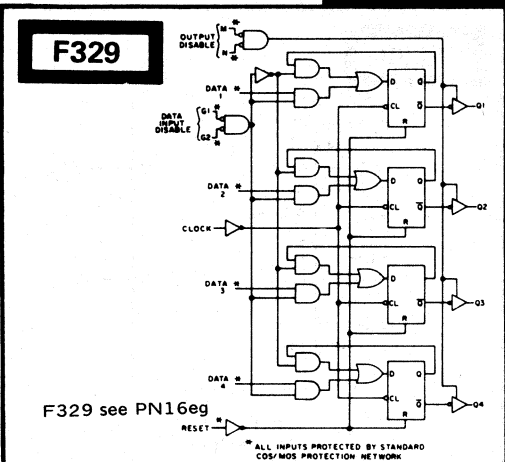


F327



22. LOGIC/BLOCK DRAWINGS

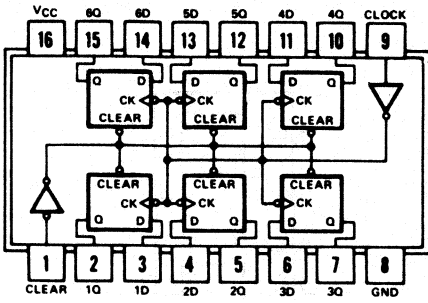
IN DRAWING NUMBER SEQUENCE



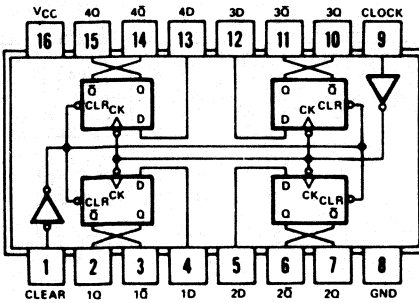
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

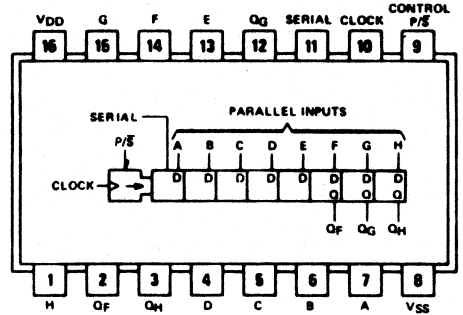
F350



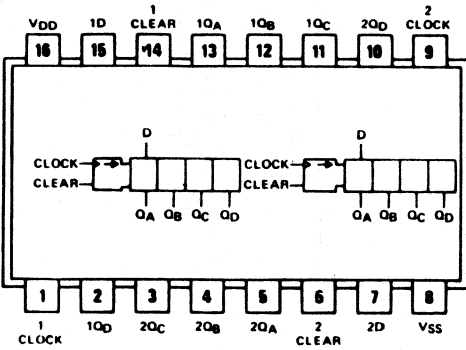
F351



F354

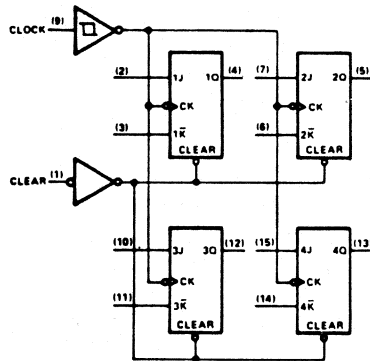


F355

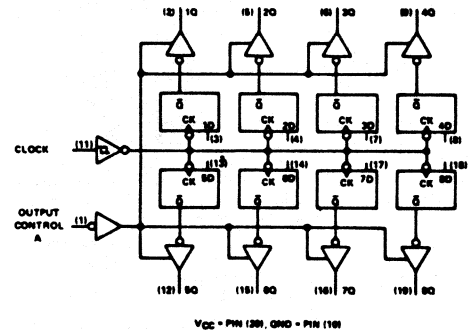


F357

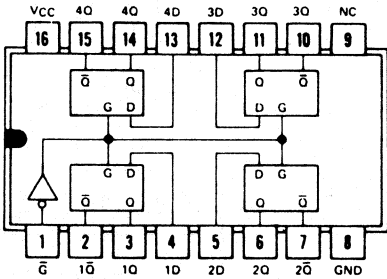
VCC - PIN (16), GND - PIN (8)



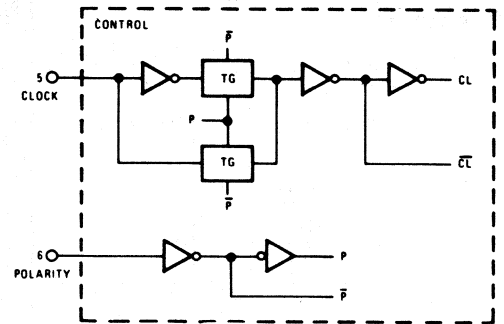
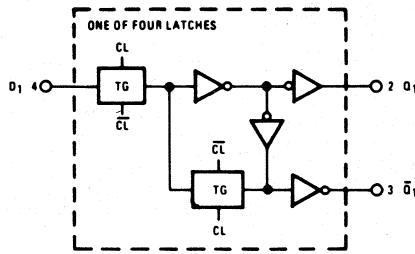
F359



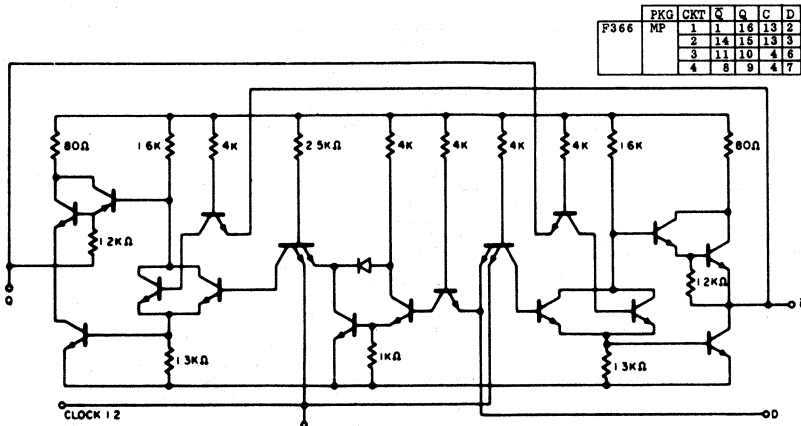
F360



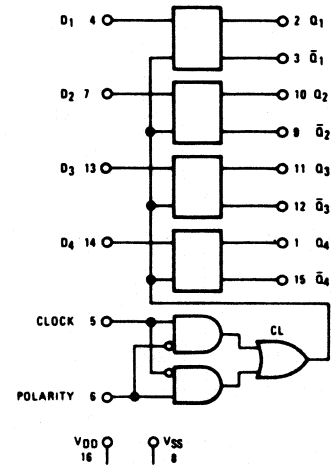
F362



F366



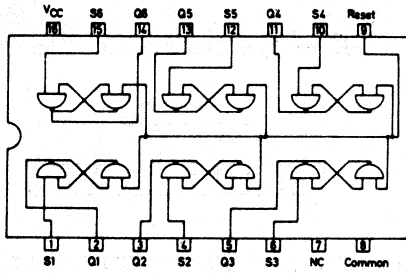
PKG	QKT	Q	Q	C	D
F366	MP	1	11	11	13
		2	14	15	13
		3	11	10	4
		4	8	9	4



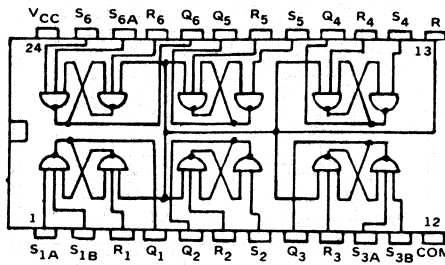
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

F368

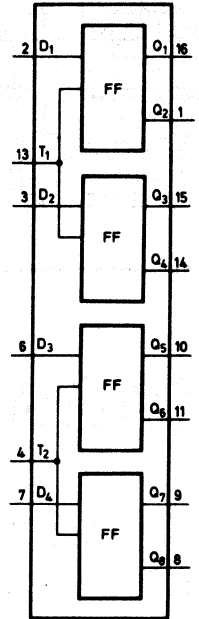


F369

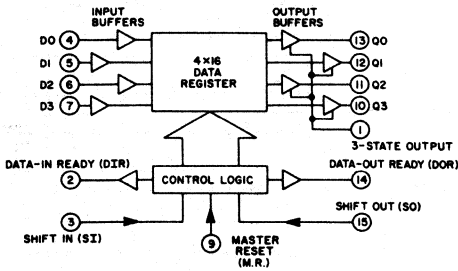


F372

F372 See PN 16en

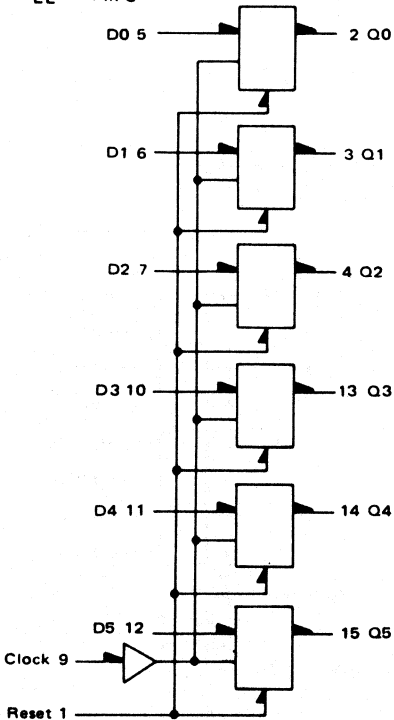


F373



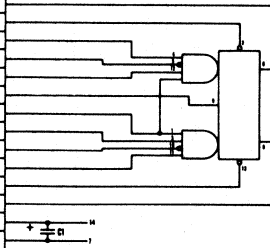
F378

V_{CC} = Pin 16
V_{EE} = Pin 8

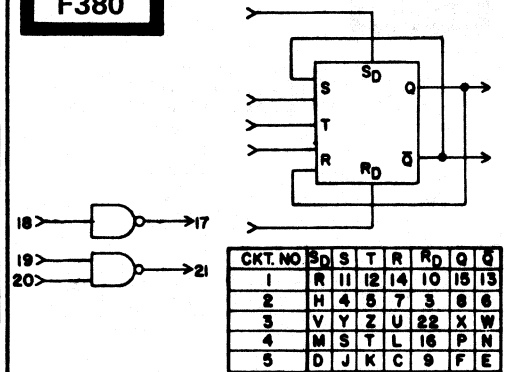


F379

FUNCTION	CONNECTOR PINS			
	IC1	IC2	IC3	IC4
Q	30	28	26	14
S _D	48	34	22	18
R	48	38	24	12
T	47	36	23	11
Q ₂	46	29	16	4
CP	38	27	15	3
R	44	32	28	3
Q ₁	46	37	25	13
T	42	38	18	4
Q ₂	41	29	17	5
Q ₃	45	33	21	4
T	43	31	19	7
V _{CC}	31			
GND	32			

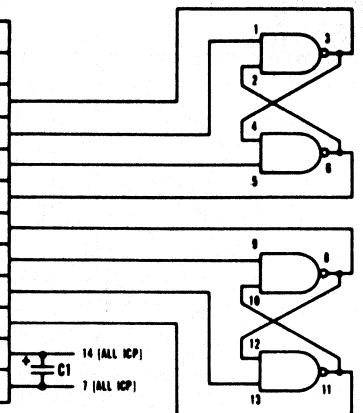


F380



F381

FUNCTION	CONNECTOR PINS					
	IC1	IC2	IC3	IC4	IC5	IC6
Q	45	37	29	21	13	5
S	43	35	27	19	11	3
R	47	39	31	23	15	7
Q ₂	49	41	33	25	17	9
Q	44	36	28	20	12	4
S	46	38	30	22	14	6
R	50	42	34	26	18	10
Q ₁	48	40	32	24	16	8
V _{CC}	31					
GND	1					

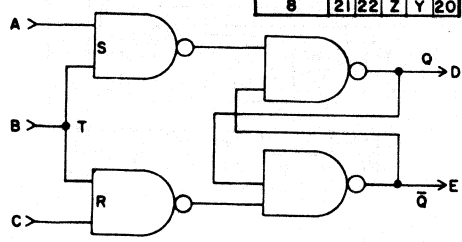


22. LOGIC/BLOCK DRAWINGS

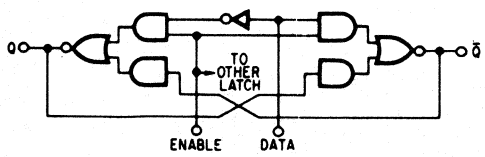
IN DRAWING NUMBER SEQUENCE

F383

CKT. NO	A	B	C	D	E
1	C	3	4	E	D
2	6	7	H	F	5
3	J	8	9	L	K
4	11	12	N	M	10
5	P	13	14	S	R
6	16	17	U	T	15
7	V	18	19	X	W
8	21	22	Z	Y	20

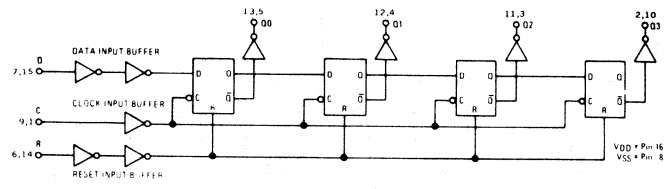


F388

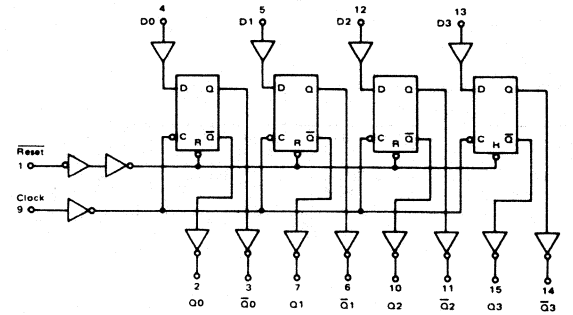


CKT	Q	E	D	Q	VCC	GND
1	4	13	2	3	16	8
2	5	15	1	6	19	9
3	11	7	13	12	18	8
4	10	7	14	9	18	8

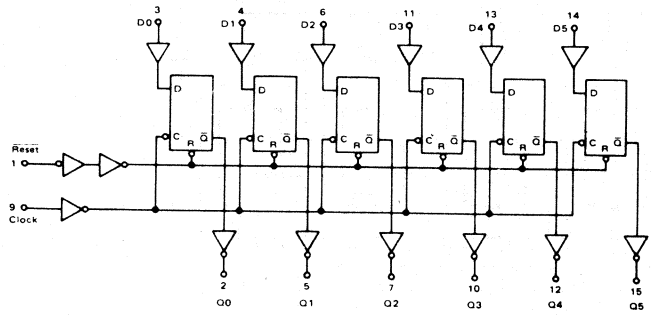
F397



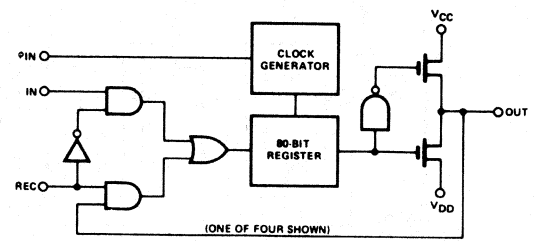
F398



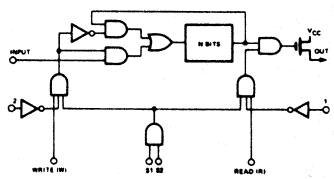
F399



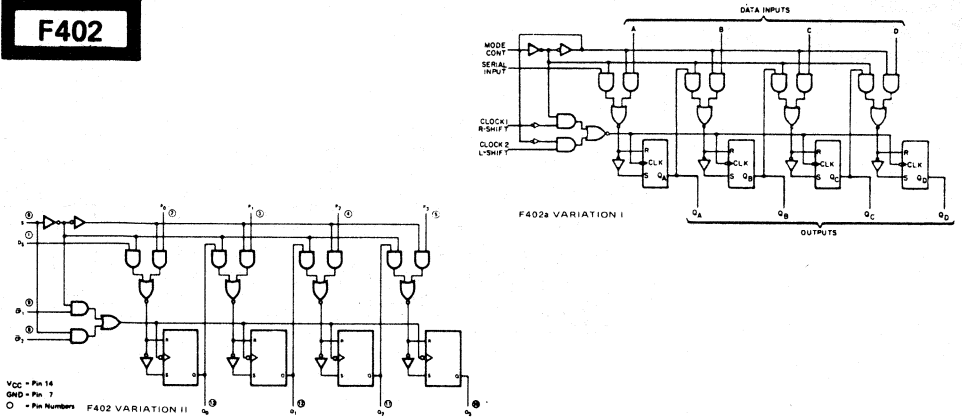
F400



F401



F402

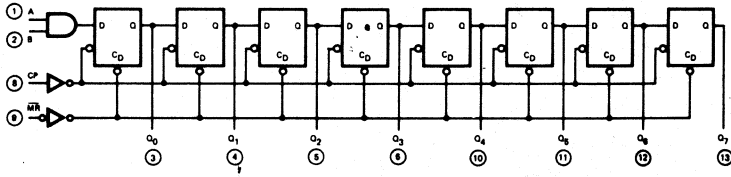


22. LOGIC/BLOCK DRAWINGS

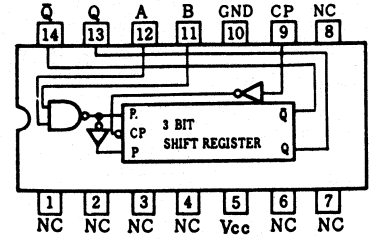
IN DRAWING NUMBER
SEQUENCE

F403

F403 see PN14r

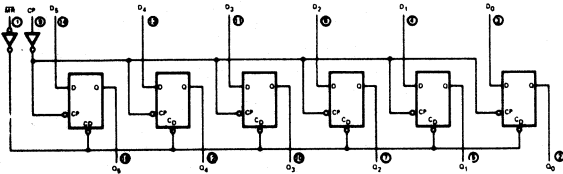


F404



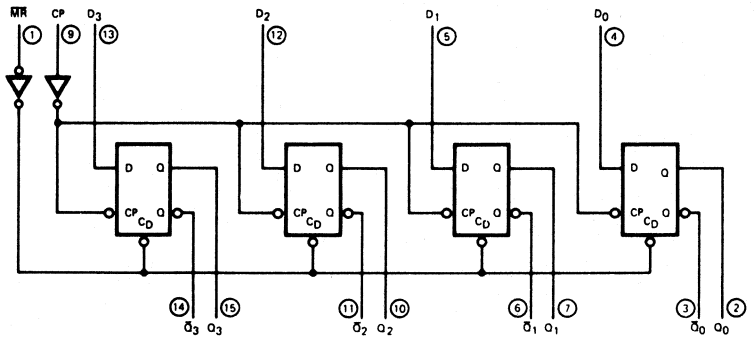
F405

F405 see PN 16et



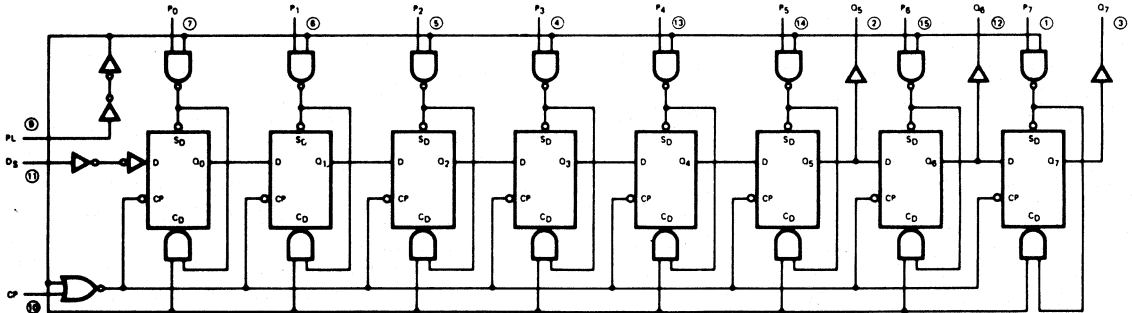
F406

F406 see PN 16eu



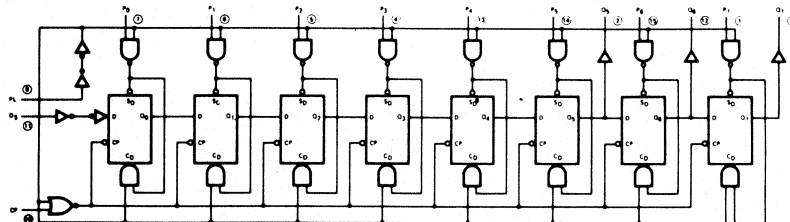
F408

F408 see PN 16ev



F409

F409 see PN 16ew

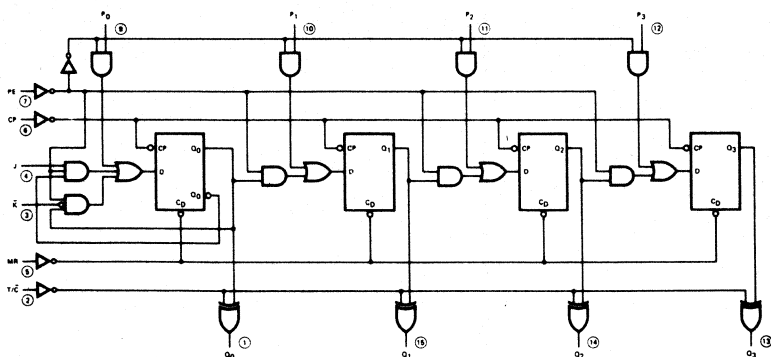


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

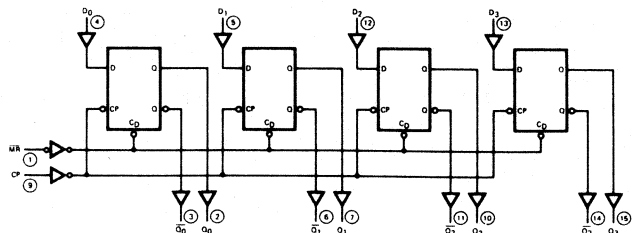
F410

F410 see PN 16ex



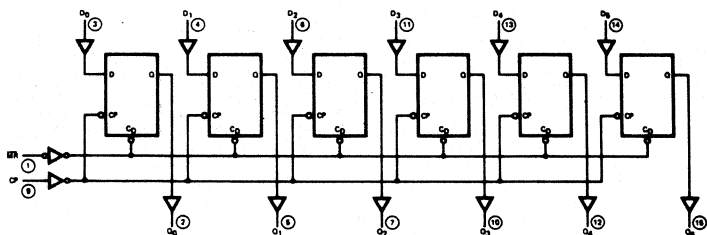
F411

F411 see PN 16ey



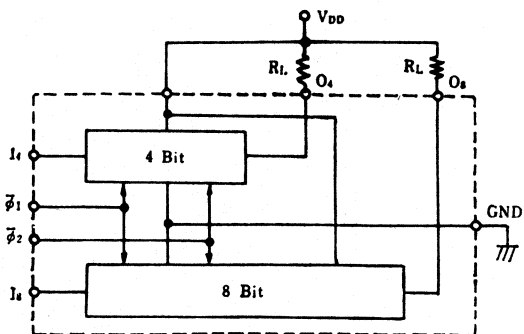
F412

F412 see PN16ez

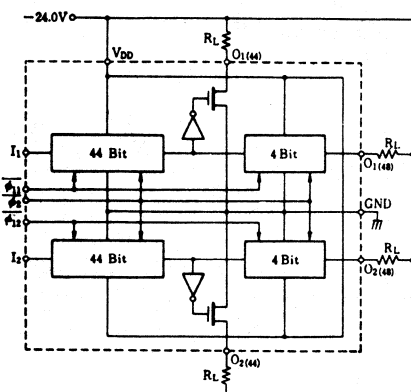


F413

F413 see PN 10h



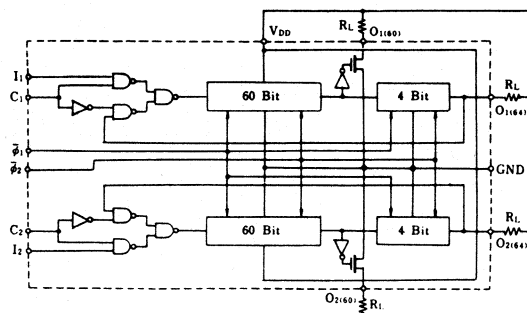
F414



F414 see PN 14s

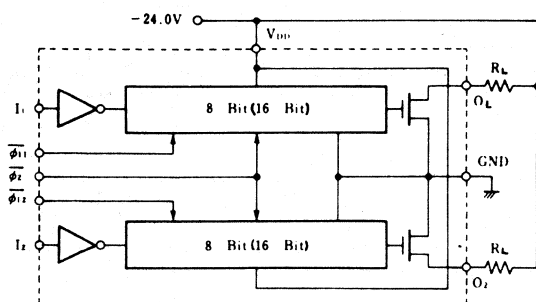
F415

F415 see PN 12a

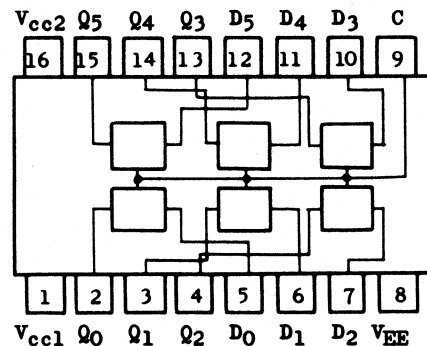


F416

F416 see PN14t

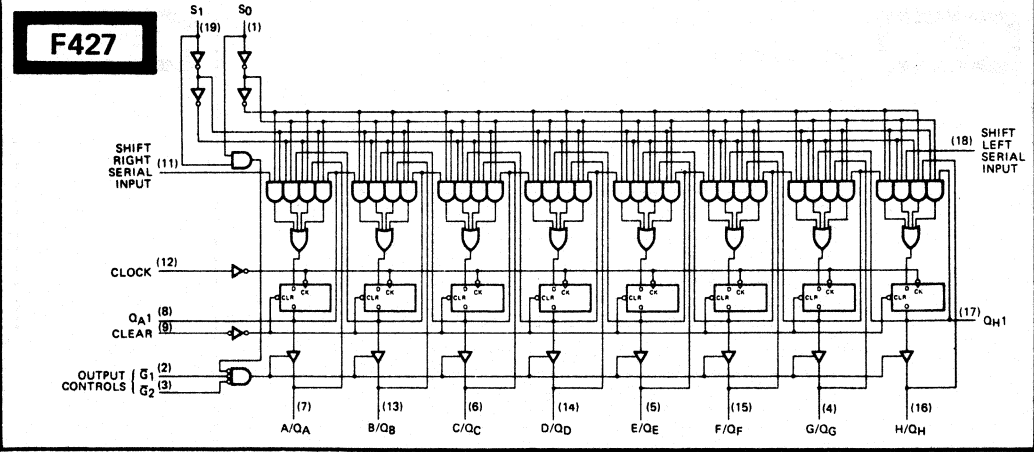
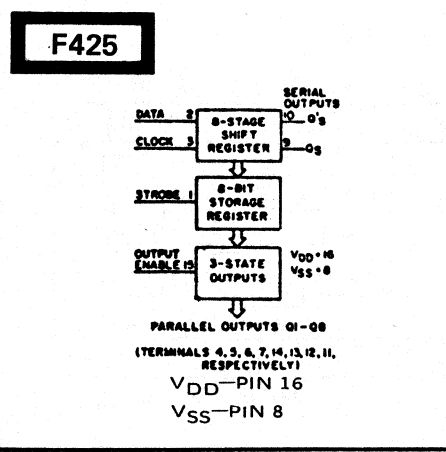
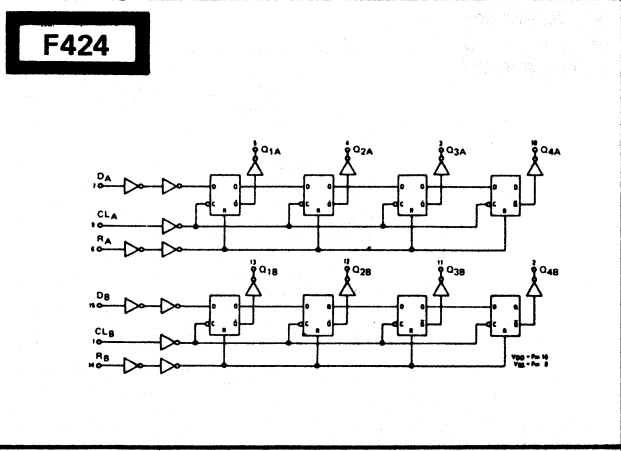
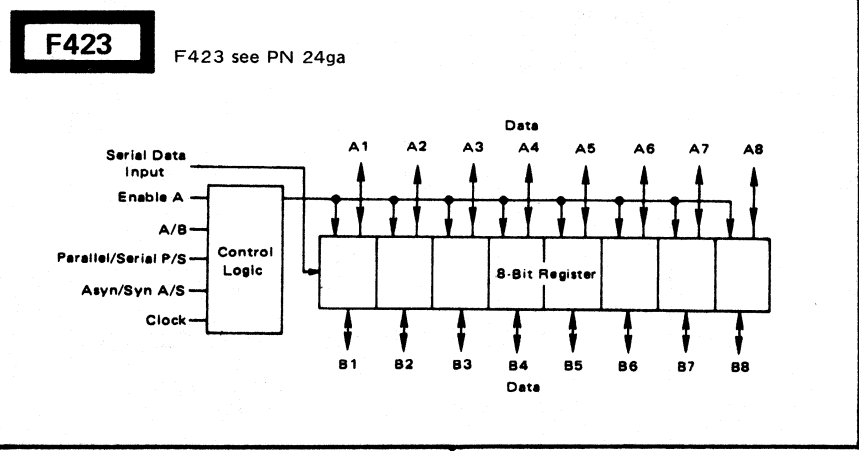
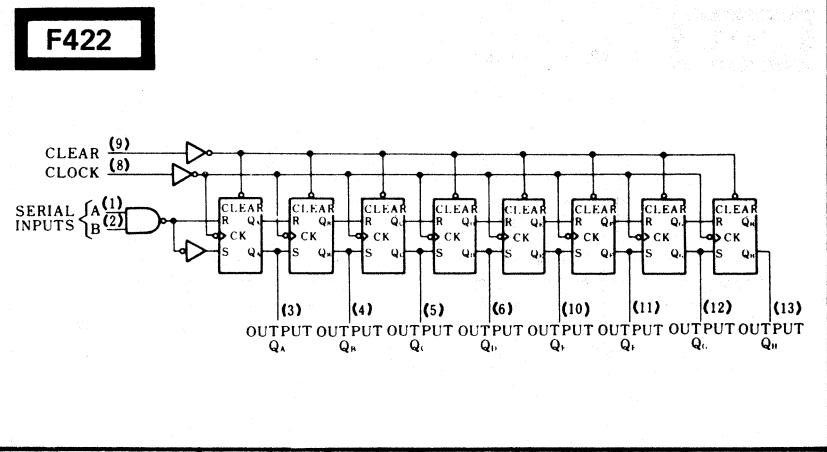
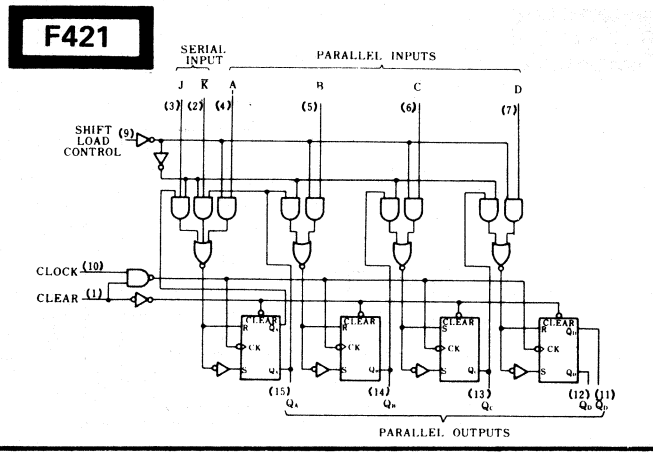
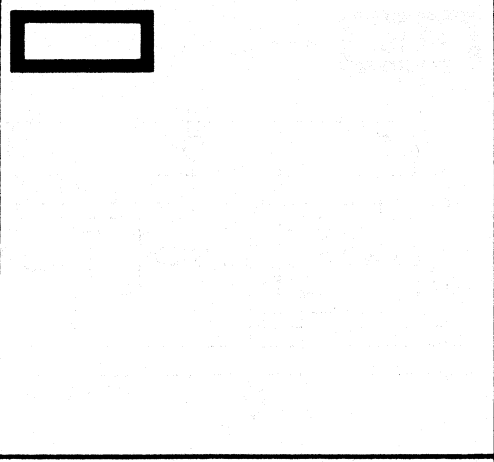
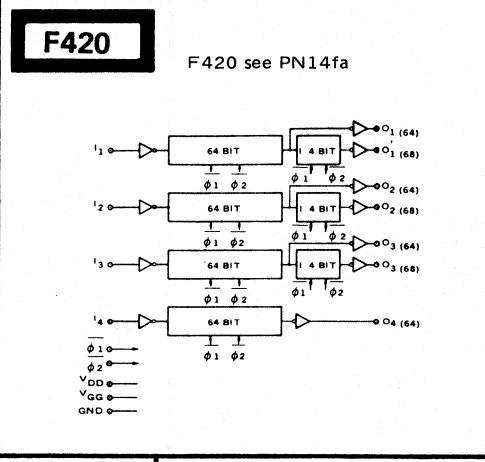
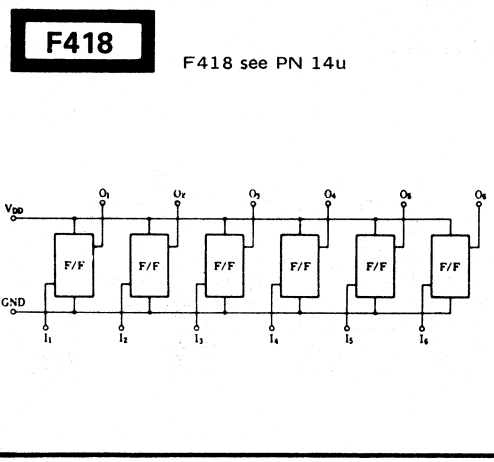


F417



22. LOGIC/BLOCK DRAWINGS

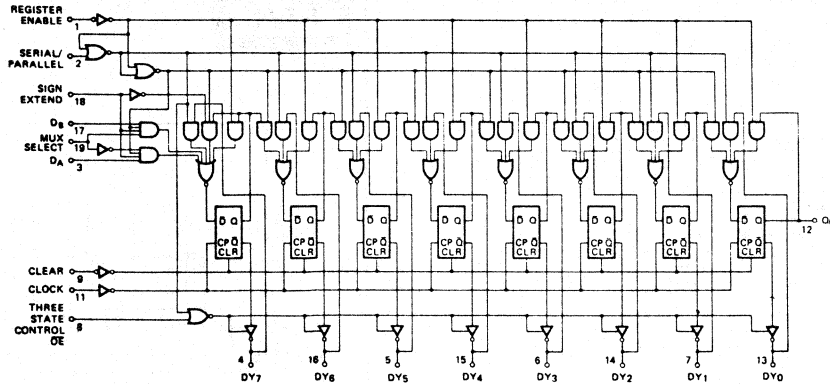
IN DRAWING NUMBER SEQUENCE



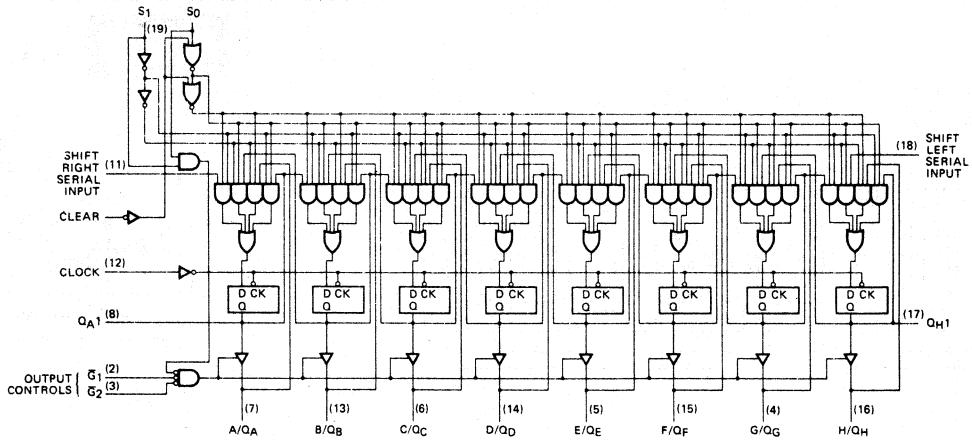
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

F428

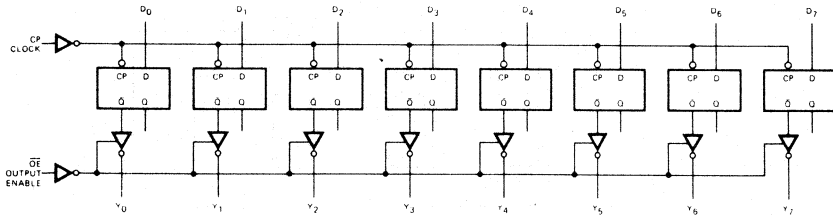


F429



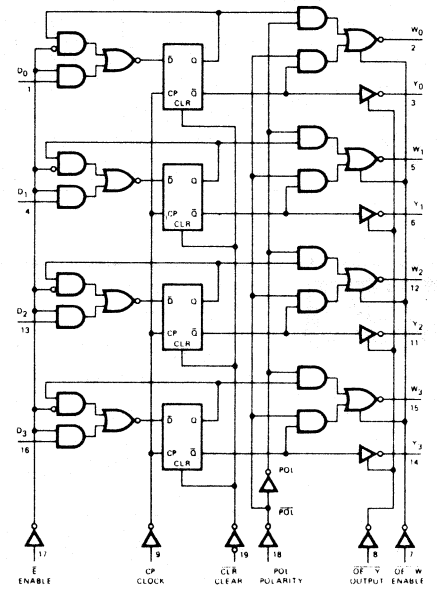
F430

F430 see PN 20u, PN20t



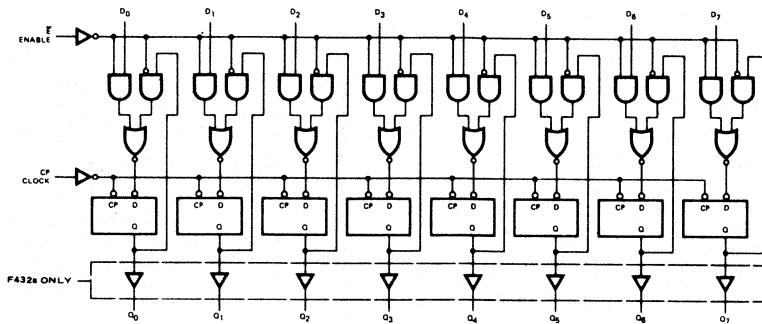
F431

F431 see PN20v



F432

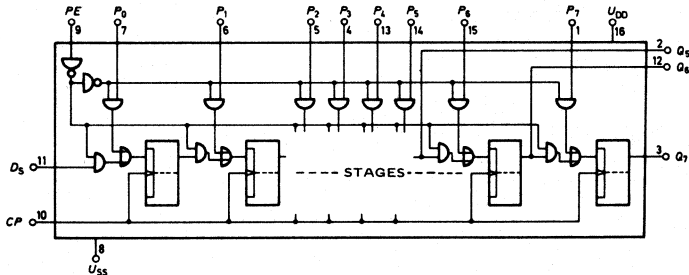
F432 see PN 20w



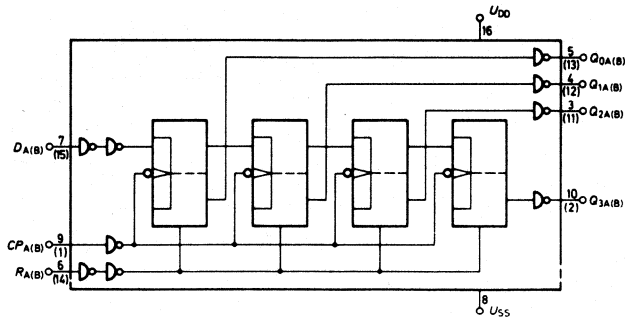
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

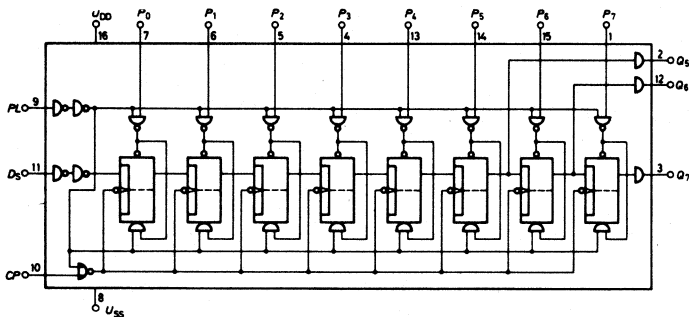
F433



F434

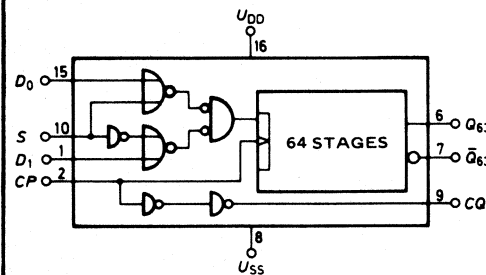


F435

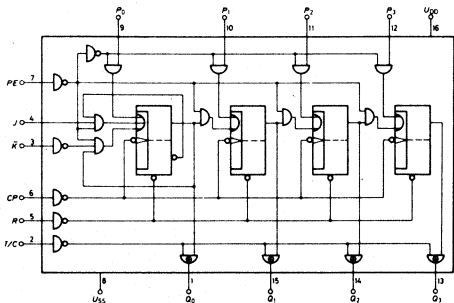


F436

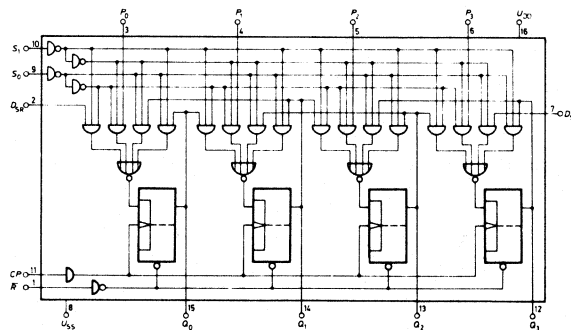
F436 see PN 16fb



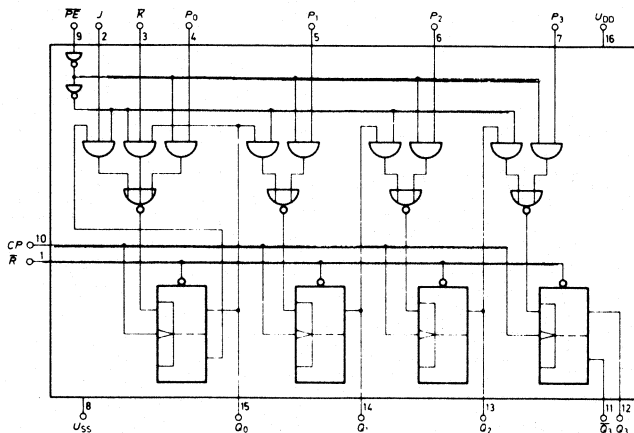
F437



F438

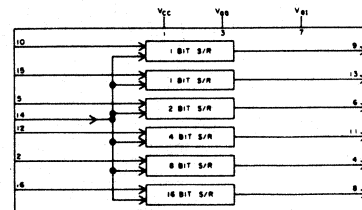


F439



F440

F440 see PN 16fc

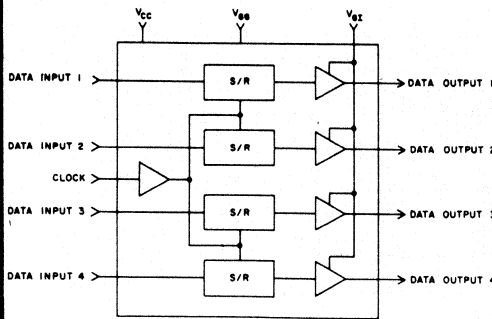


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

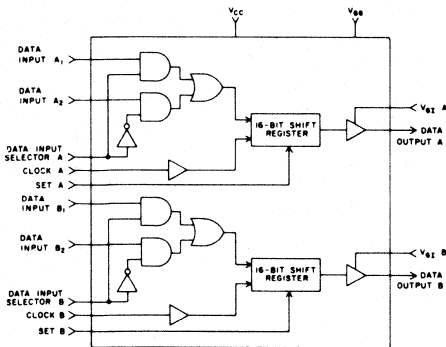
F441

F441 see PN 14v

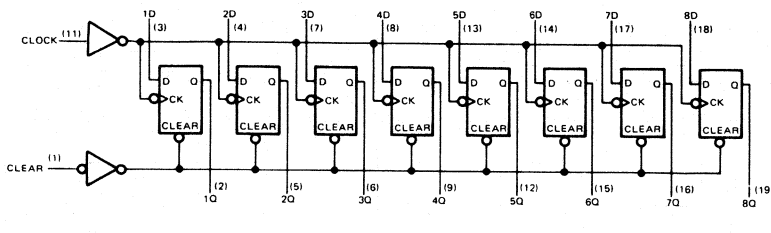


F442

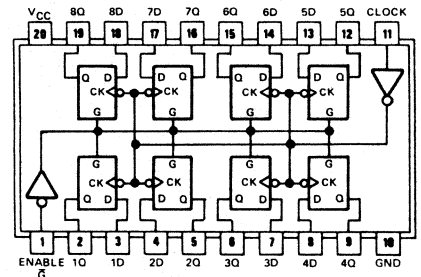
F442 see PN 16fd,fe



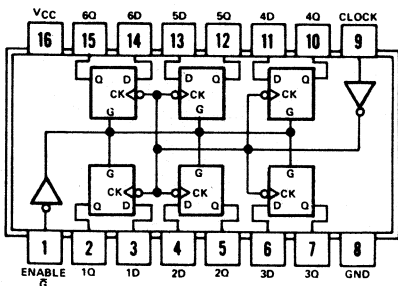
F449



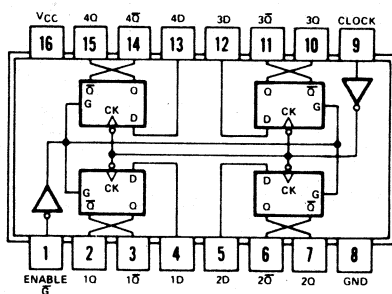
F450



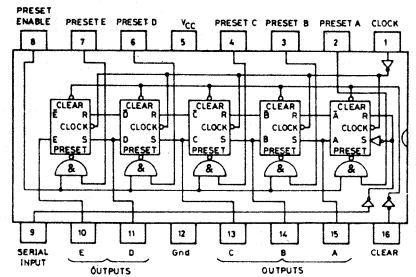
F451



F452

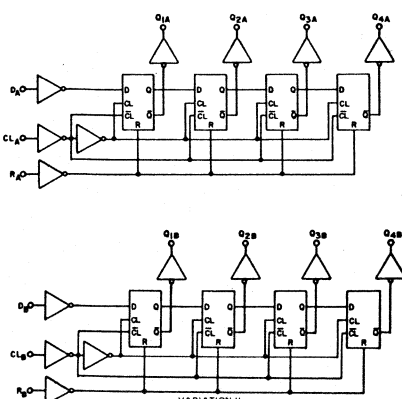
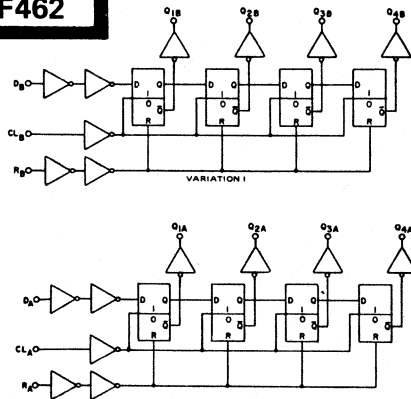


F457



F462

F462 see PN 16fj

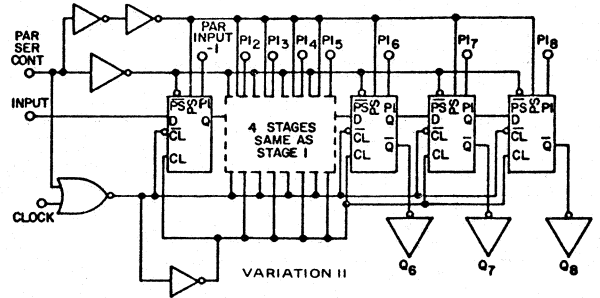
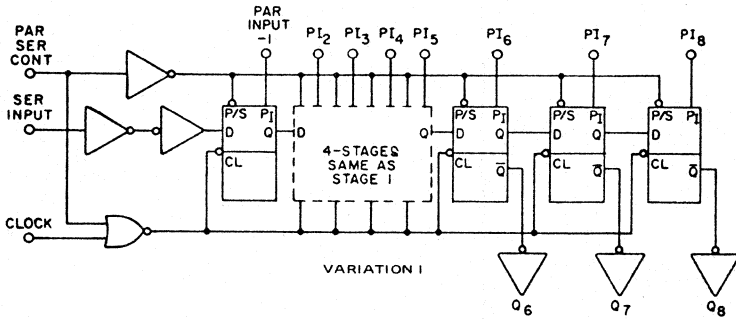


22. LOGIC/BLOCK DRAWINGS

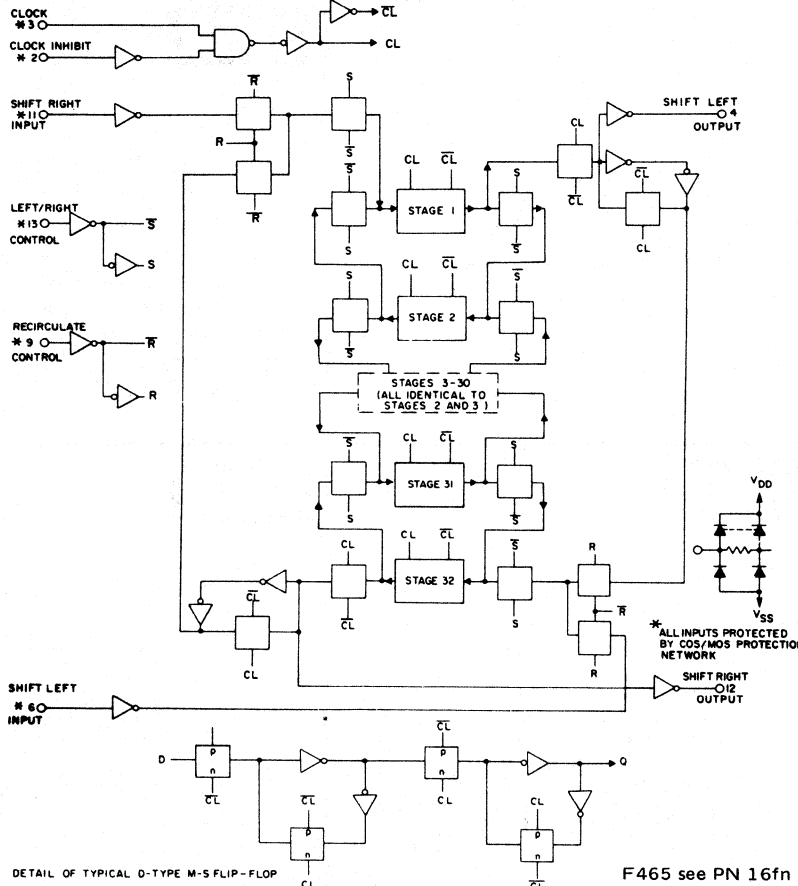
IN DRAWING NUMBER SEQUENCE

F463

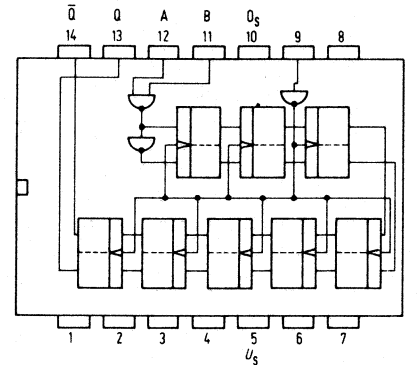
F463 see PN 16di



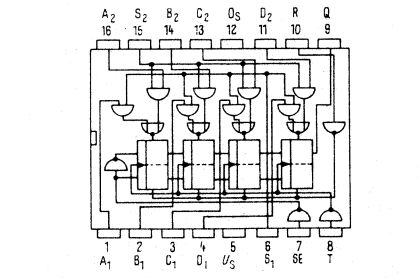
F465



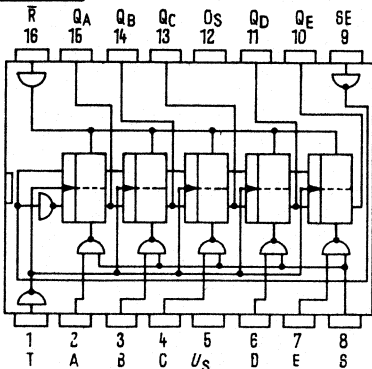
F466



F467

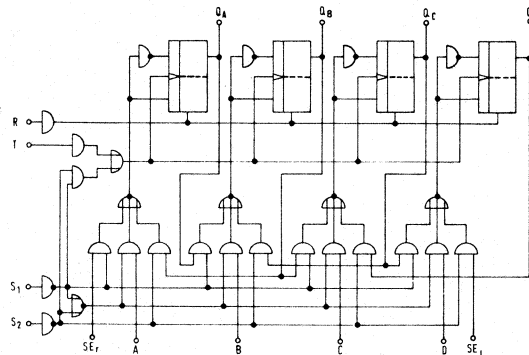


F468



F469

F469 see PN 16bp

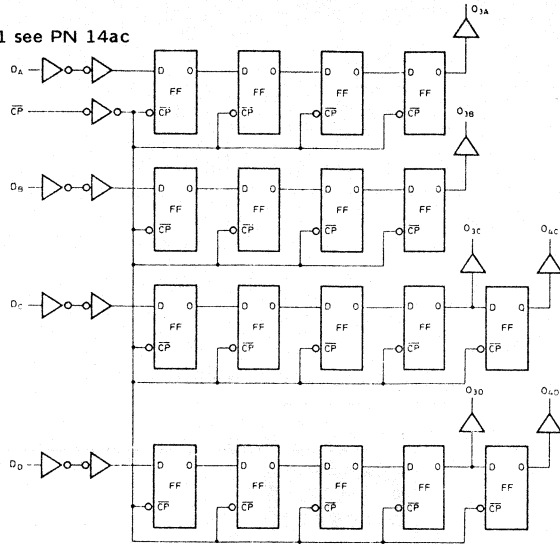


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

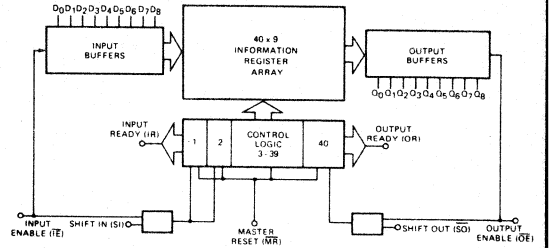
F471

F471 see PN 14ac

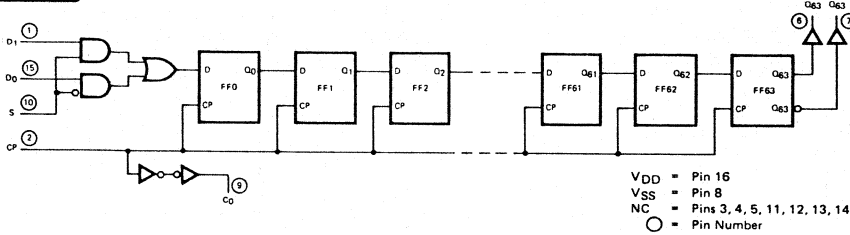


F472

F472 see PN 28x

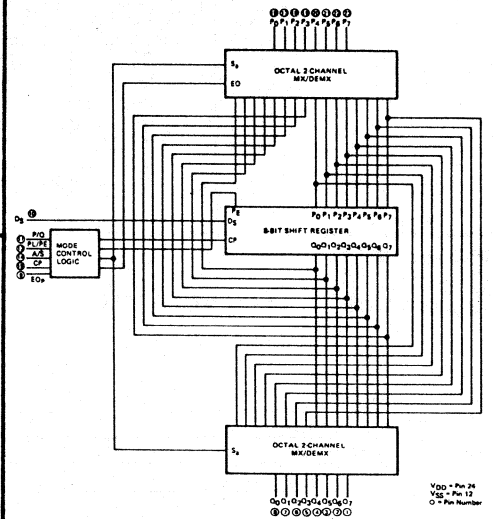


F477



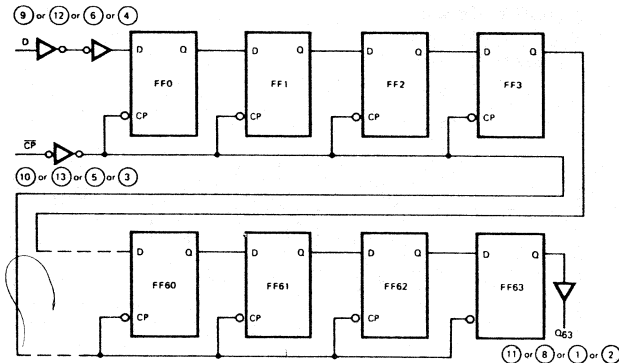
VDD = Pin 16
VSS = Pin 8
NC = Pins 3, 4, 5, 11, 12, 13, 14
○ = Pin Number

F478



VDD = Pin 24
VSS = Pin 12
○ = Pin Number

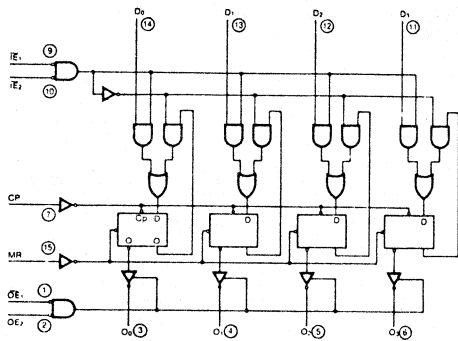
F480



VDD = Pin 14
VSS = Pin 7
○ = Pin Number

F480 see PN 14aa, PN16fr

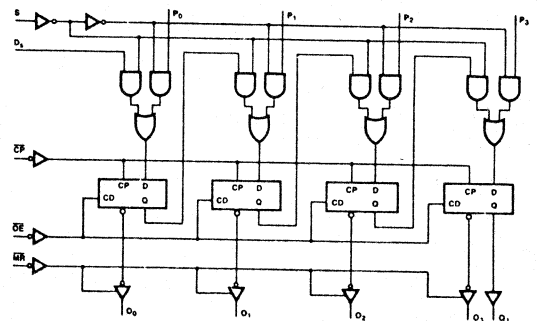
F482



Vcc = Pin 16
GND = Pin 8
○ = Pin Numbers

F483

F483 see PN 16fs

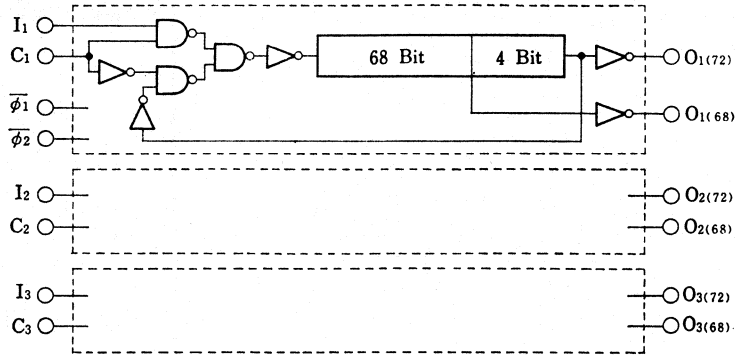


22. LOGIC/BLOCK DRAWINGS

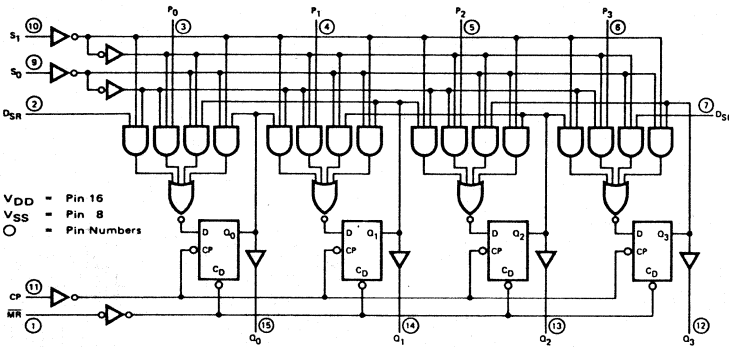
IN DRAWING NUMBER SEQUENCE

F484

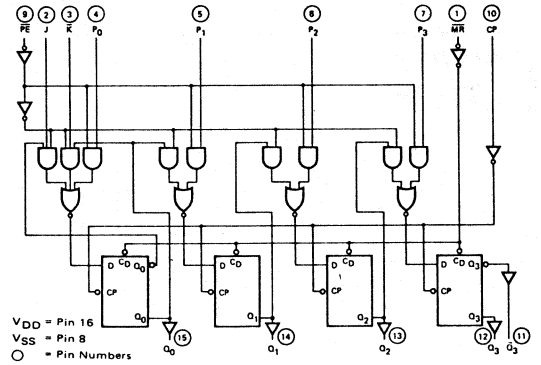
F484 see PN 16 ft



F485

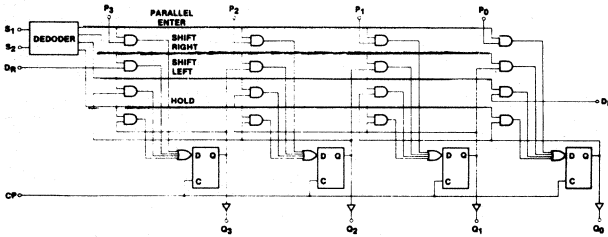


F486

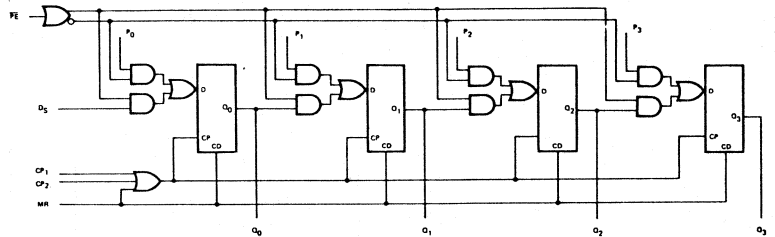


F487

F487 see PN 16fu



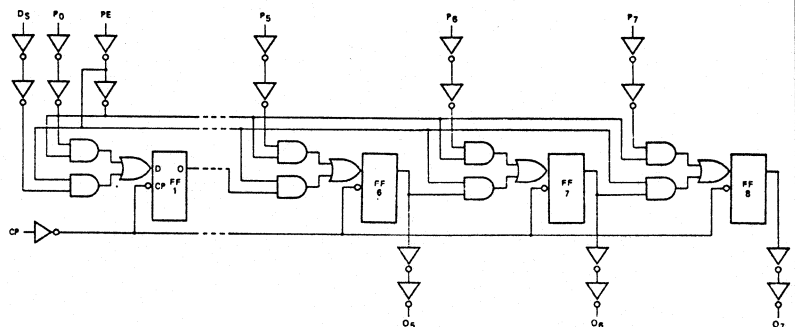
F488



	CP	Q ₃	Q ₂	Q ₁	Q ₀	MR	FE	P ₁	P ₂	P ₃	Q ₀	Q ₁	Q ₂	Q ₃	V _{CC1}	V _{CC2}	V _{EE}
0488	13	14	12	3	7	9	10	11	3	2	15	14	8	1	16	2	8
0488a	1	6	15	9	11	15	14	15	7	6	3	2	10	2	4	12	

F491

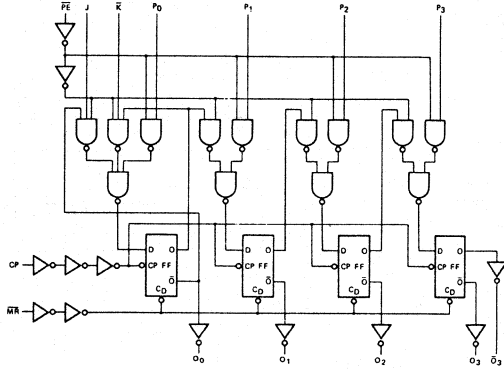
F491 see PN16gb



22. LOGIC/BLOCK DRAWINGS

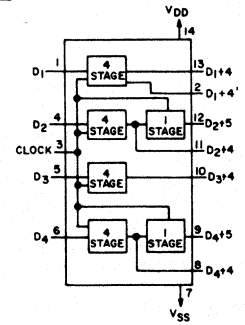
IN DRAWING NUMBER SEQUENCE

F500

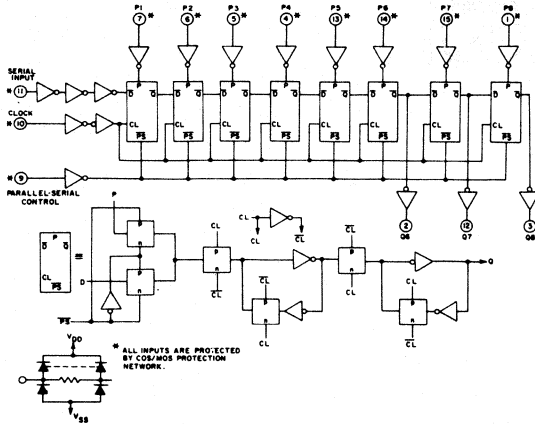


F500 see PN 16gc

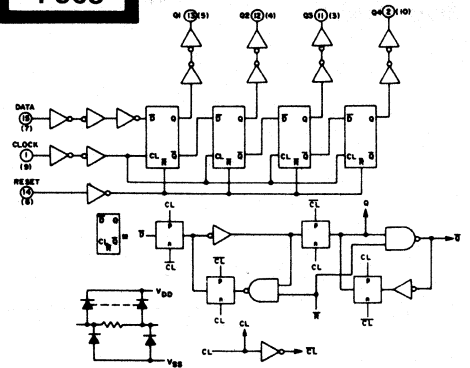
F503



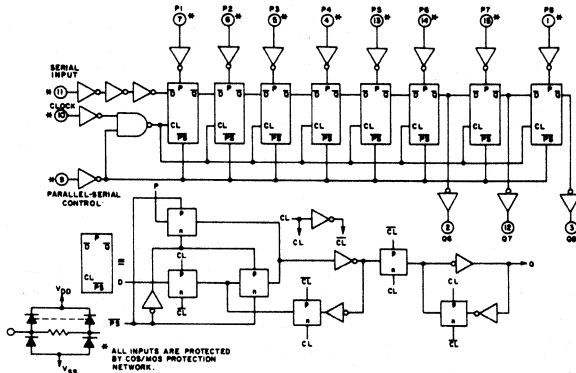
F504



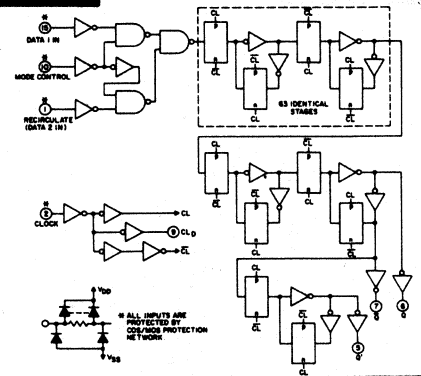
F505



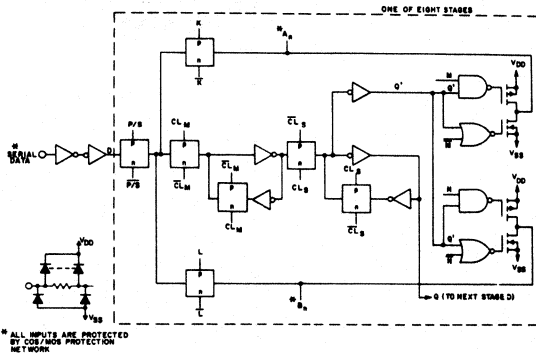
F506



F507



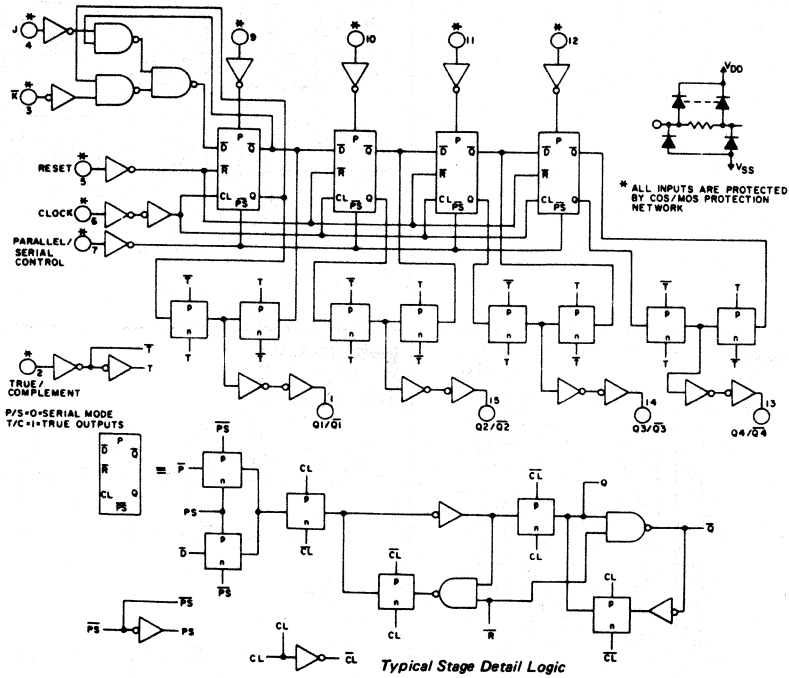
F508



22. LOGIC/BLOCK DRAWINGS

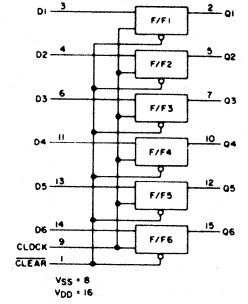
IN DRAWING NUMBER SEQUENCE

F509

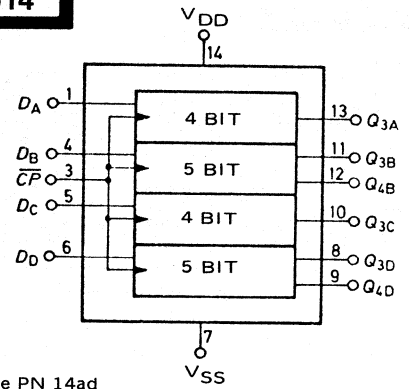


F513

F513 see PN 16gz

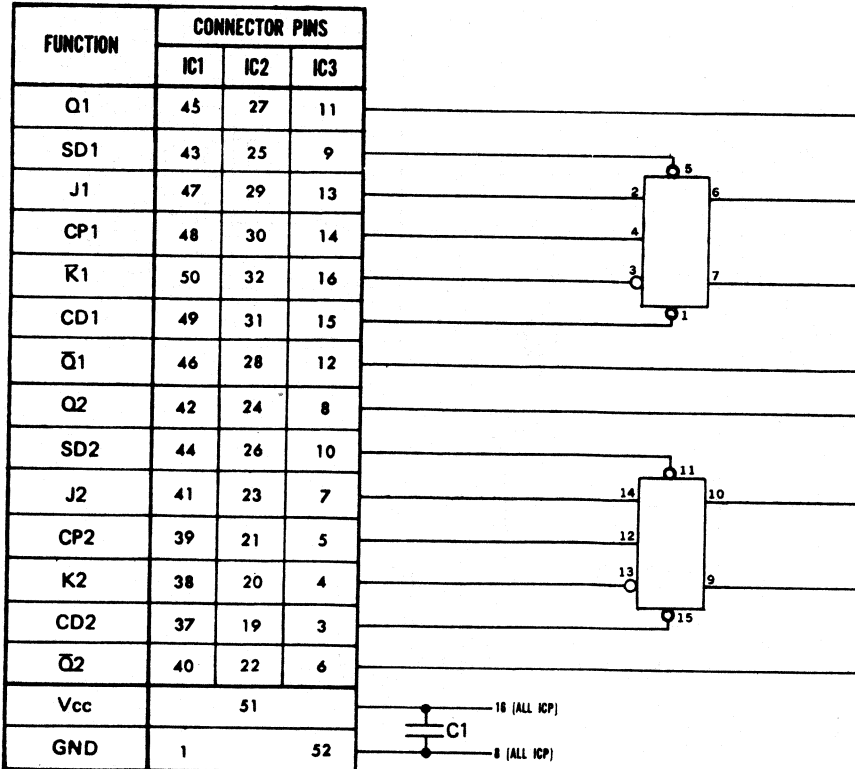


F514



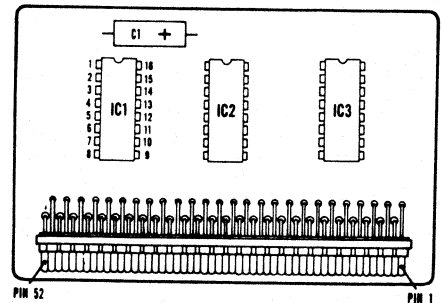
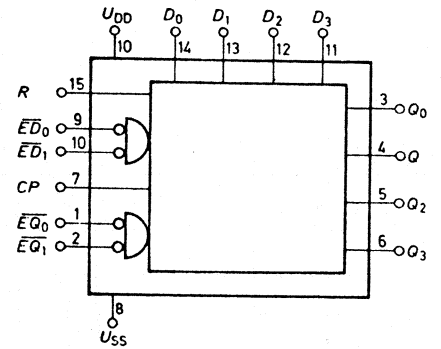
F514 see PN 14ad

F523



F519

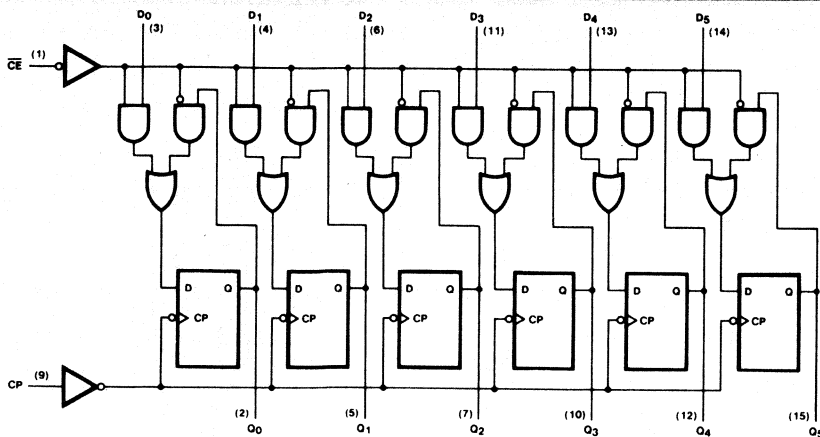
F519 see PN 16gh



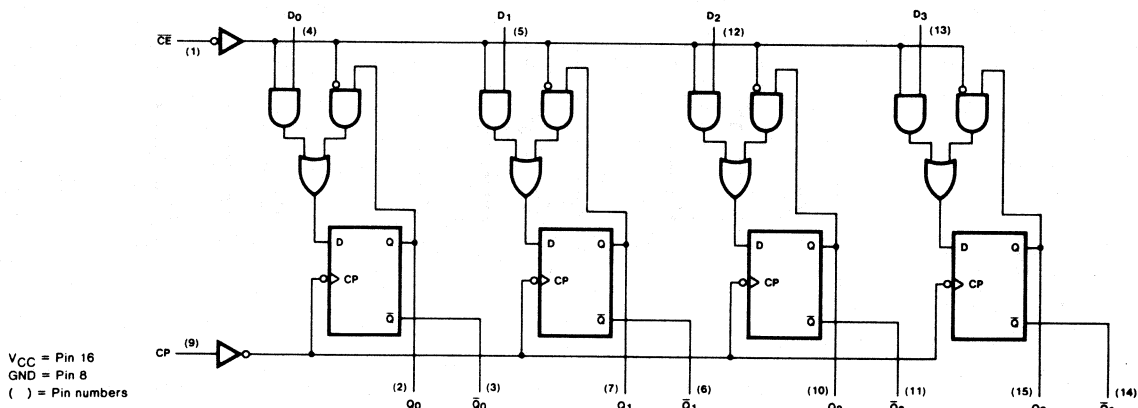
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

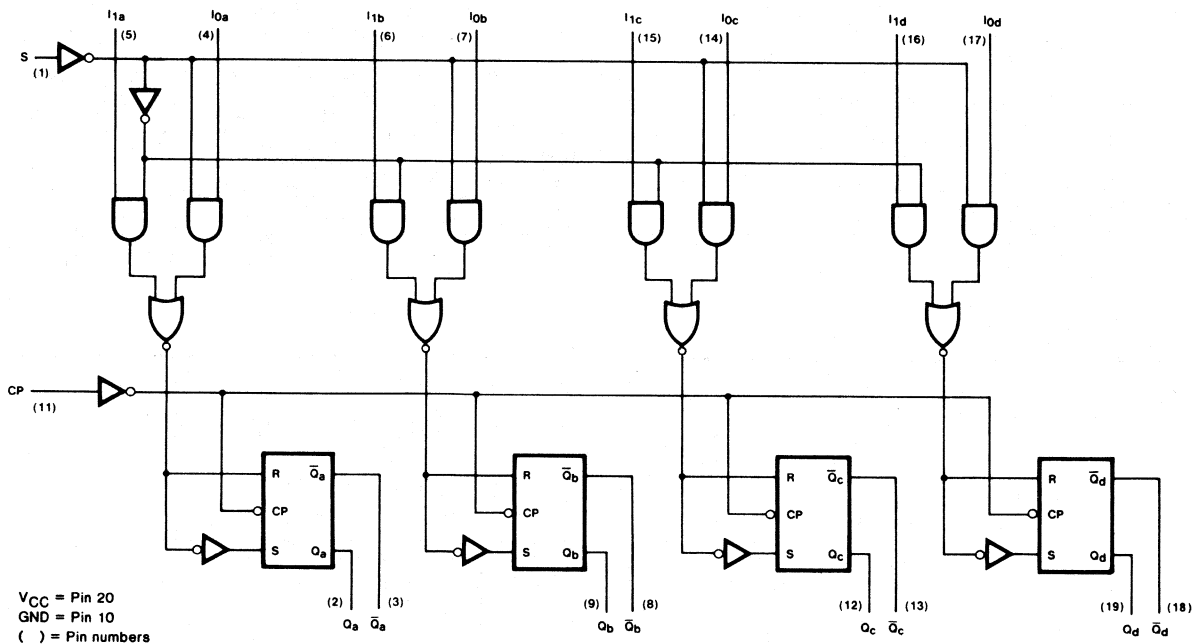
F536



F537



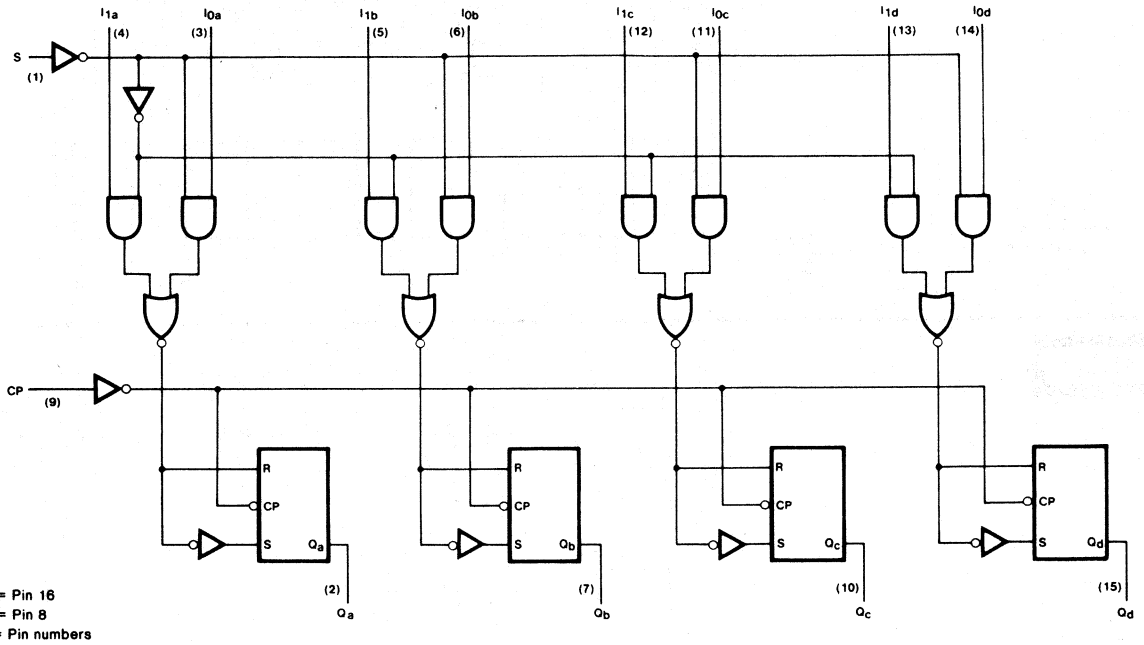
F538



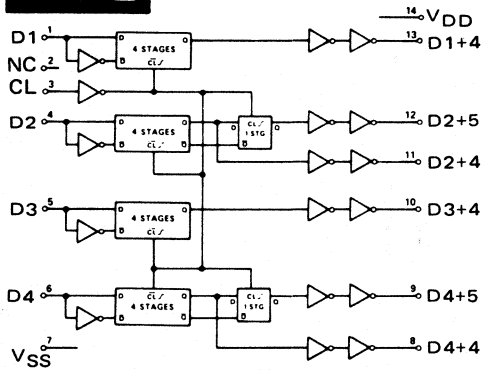
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

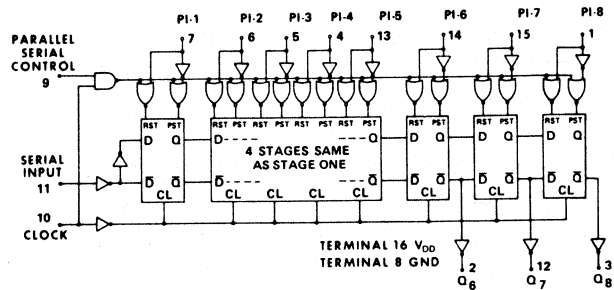
F539



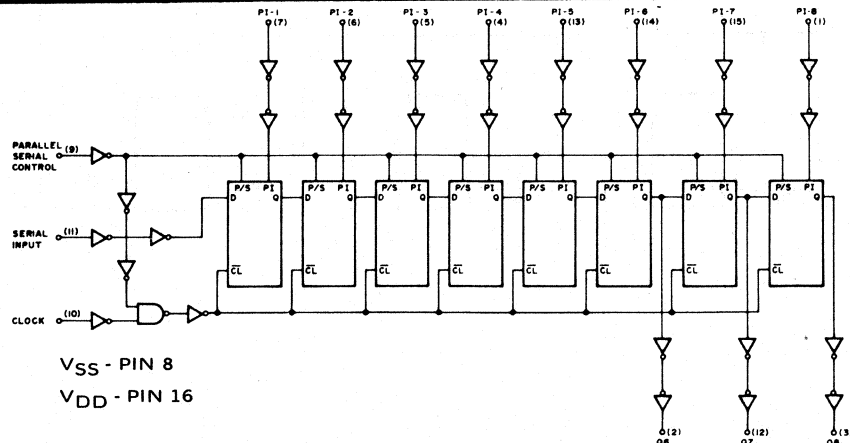
F540



F541



F542



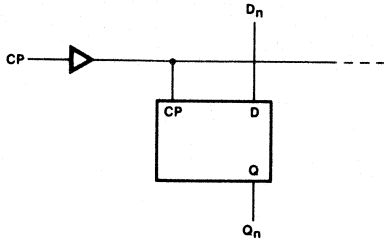
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

F543

F543 see PN 16gj, 16gh

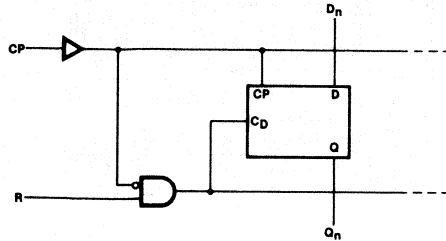
(One Flip-flop shown)



F544

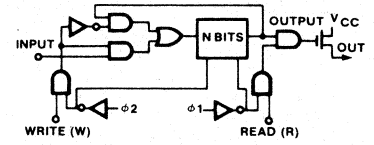
F544 see PN 16gj,gh

(One Flip-flop)



F546

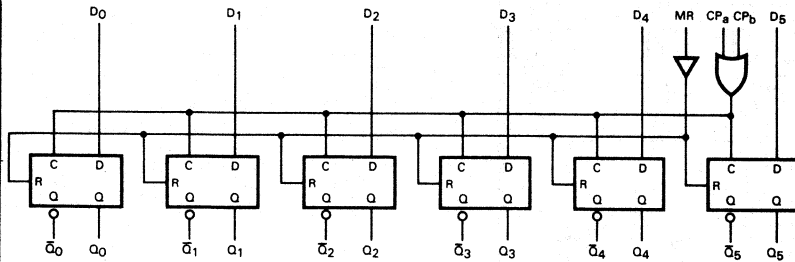
F546 see PN8F557 see PN 22bd



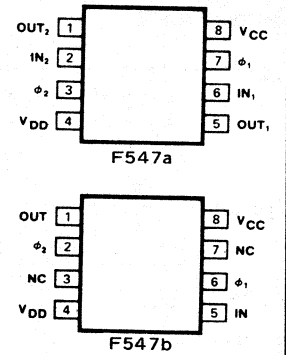
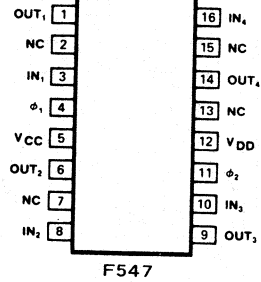
F546: N=512
F546a: N=1024

F545

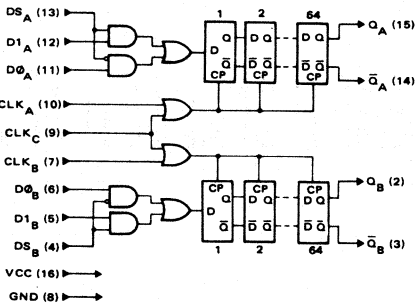
F545 see PN 24gh,gi



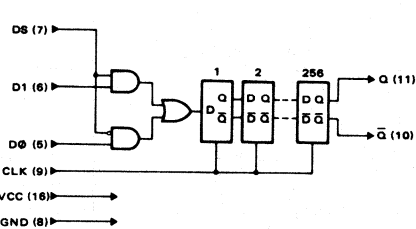
F547



F549



F550

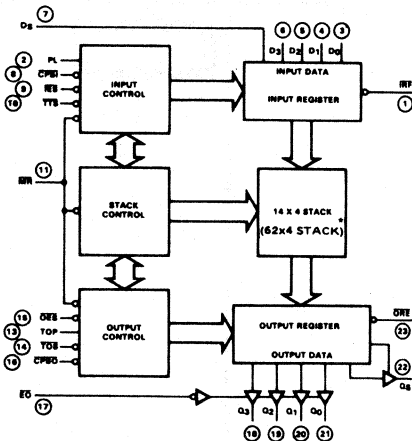


F551

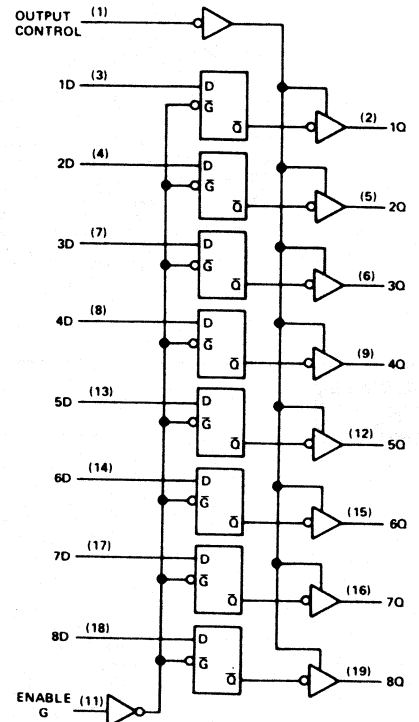
* F551a HAS A 62x4 STACK

VCC = Pin 24
GND = Pin 12

○ = Pin Numbers



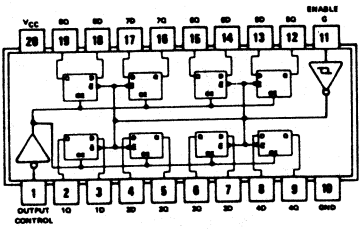
F553



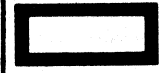
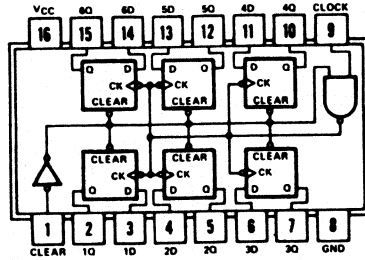
22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE

F554

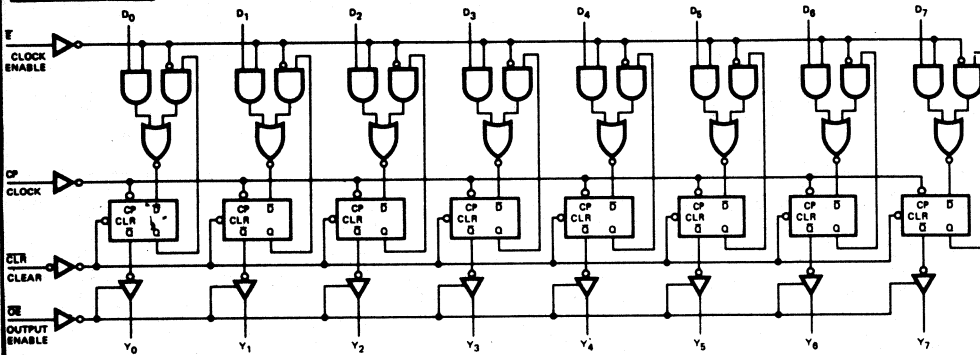


F555

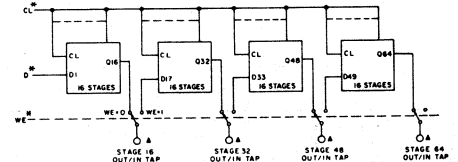


F557

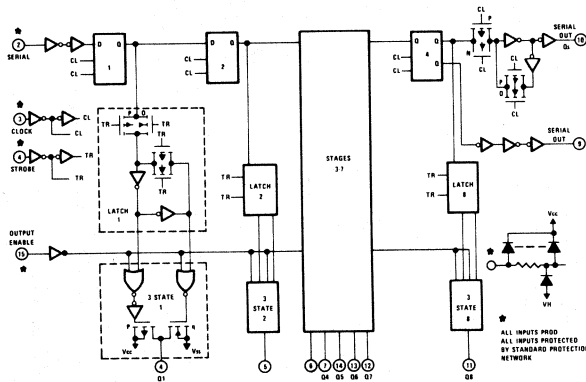
F557 See PN 22bd



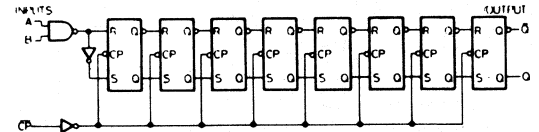
F558



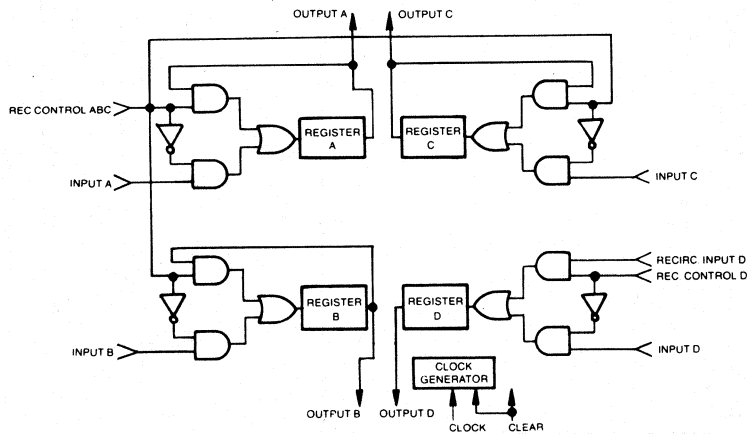
F559



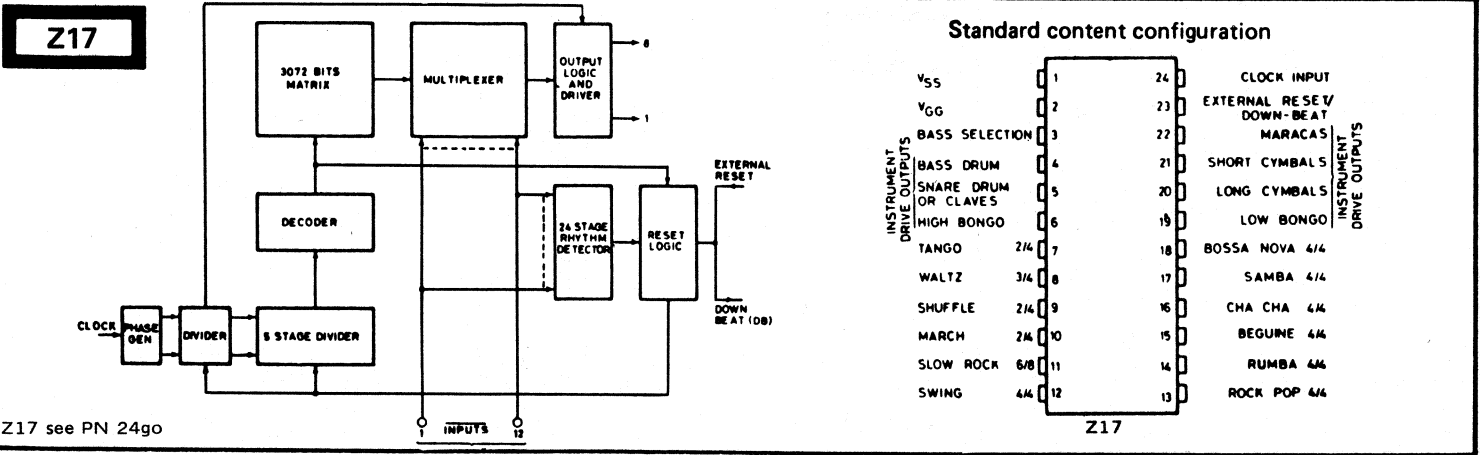
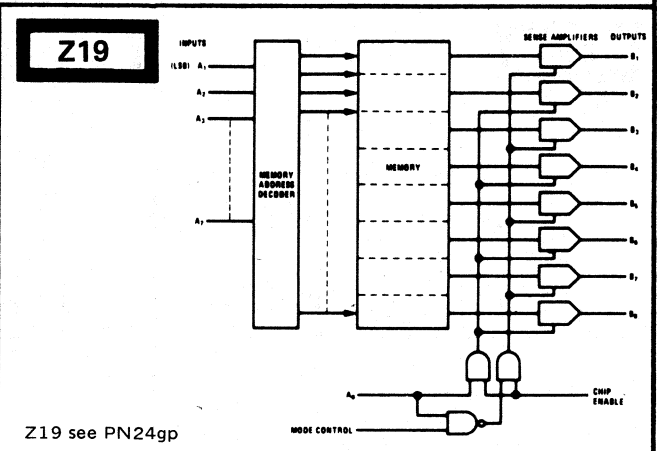
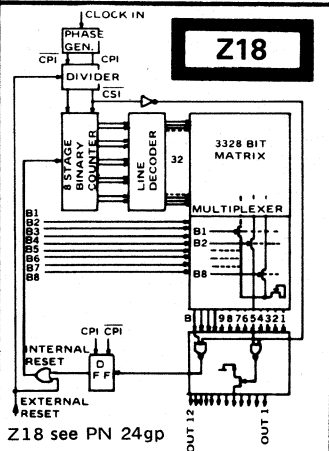
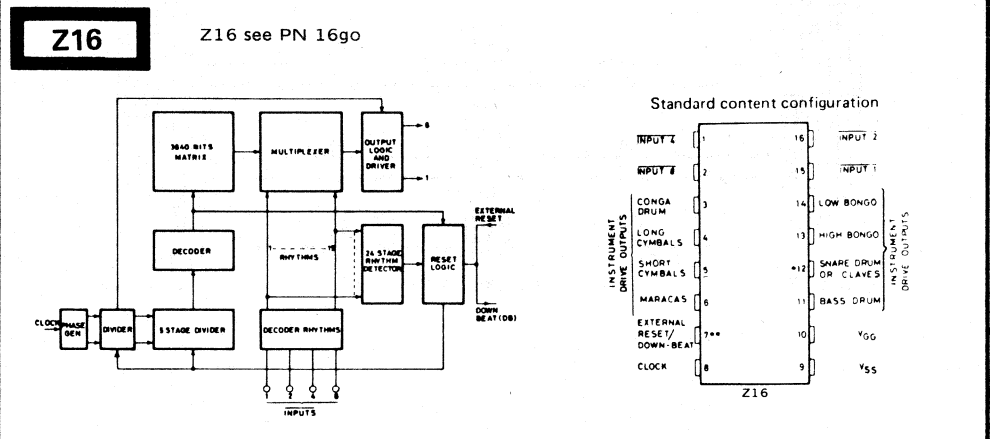
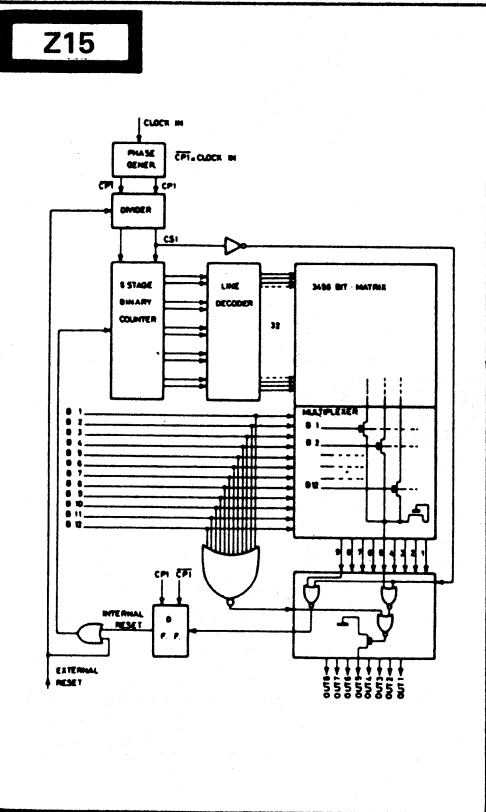
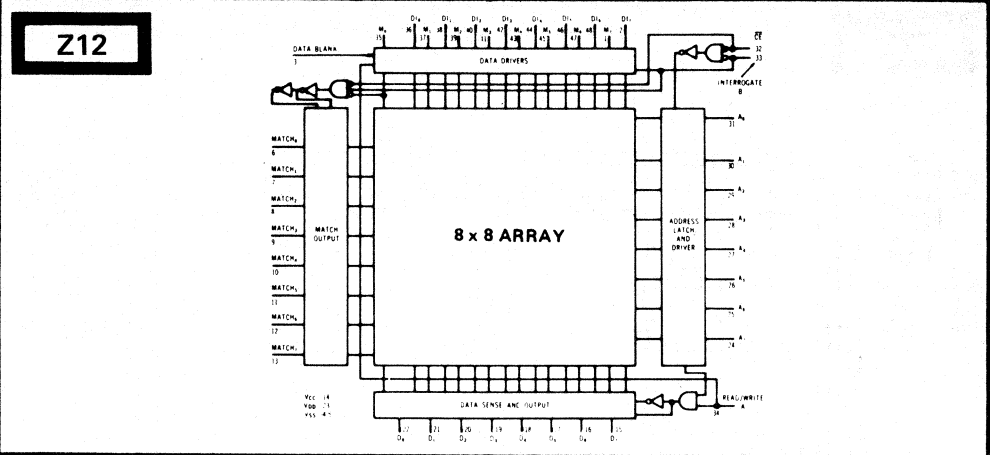
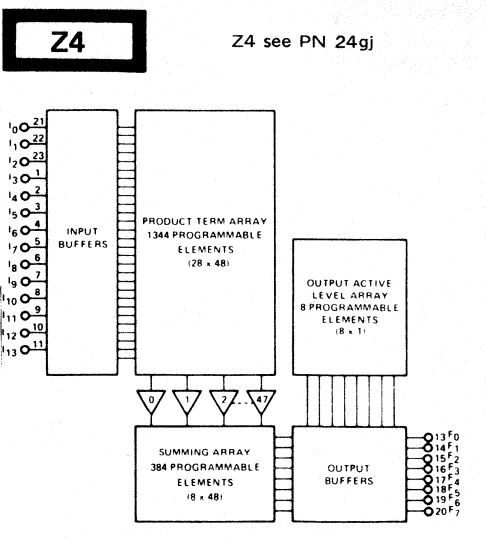
F560



F561



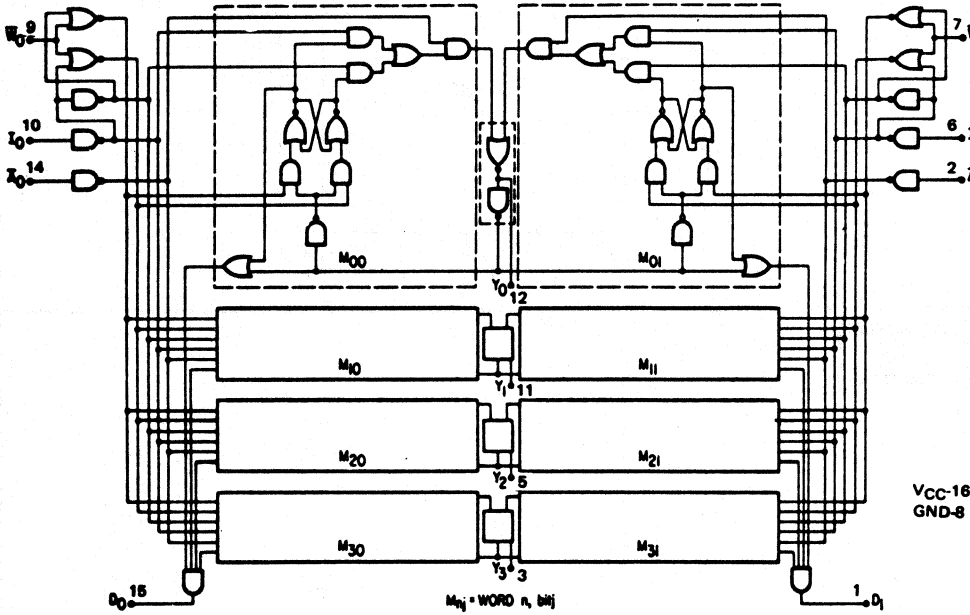
22. LOGIC/BLOCK DRAWINGS IN DRAWING NUMBER SEQUENCE



22. LOGIC/BLOCK DRAWINGS

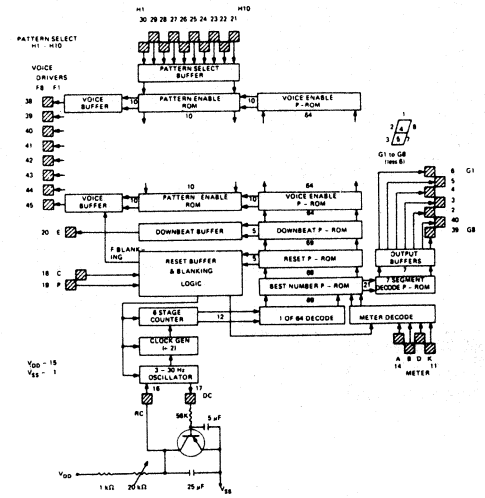
IN DRAWING NUMBER SEQUENCE

Z21



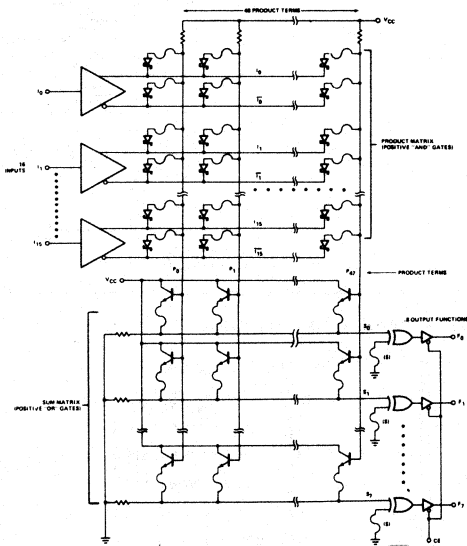
Z22

Z22 see PN 40h



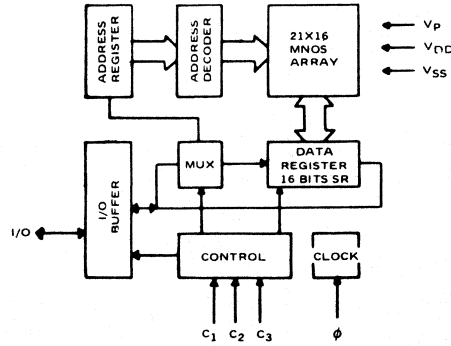
Z24

Z24 see PN 28y



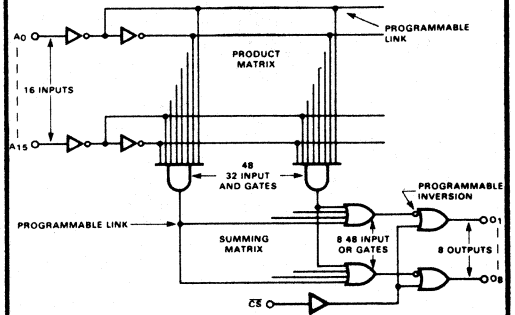
Z26

Z26 see PN8v



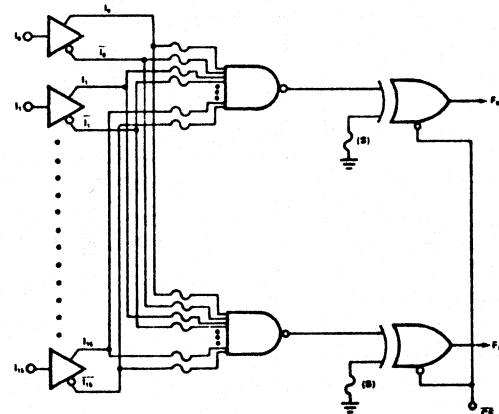
Z28

Z28 see PN28z



Z32

Z32 see PN 28aa

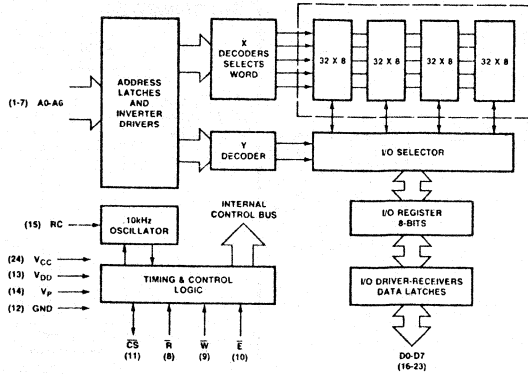


22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER
SEQUENCE

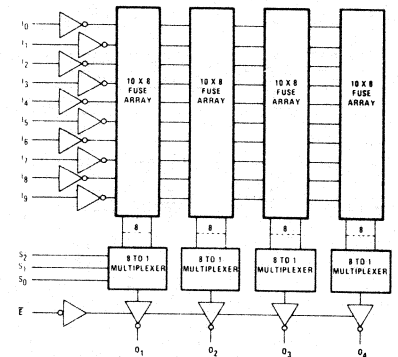
Z33

Z33 see PN 24gs

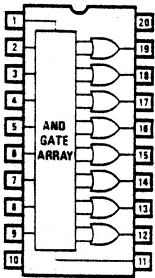


Z36

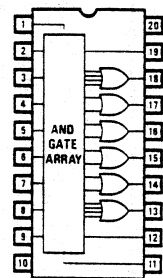
Z36 see PN 20y



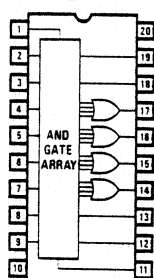
Z37



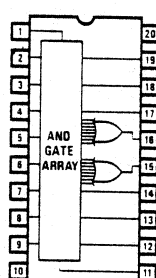
Z38



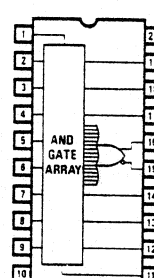
Z39



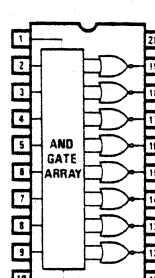
Z40



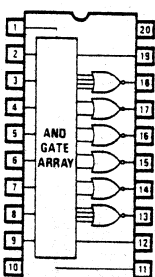
Z41



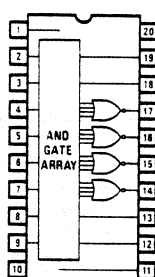
Z42



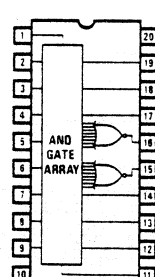
Z43



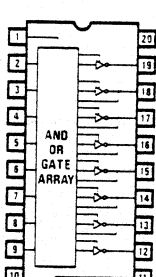
Z44



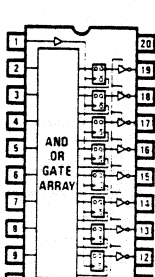
Z45



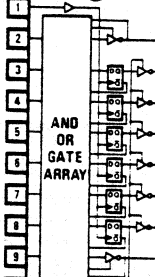
Z46



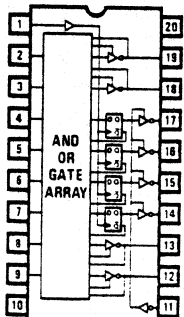
Z47



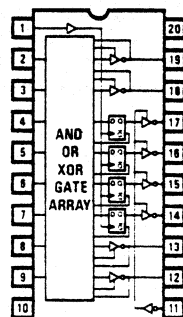
Z48



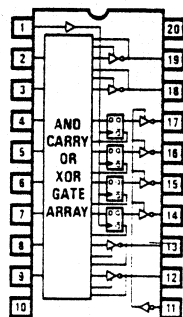
Z49



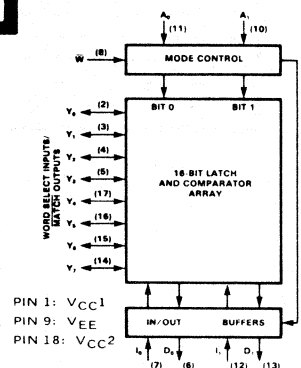
Z50



Z51

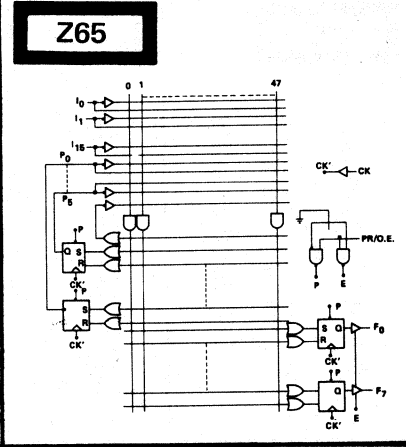
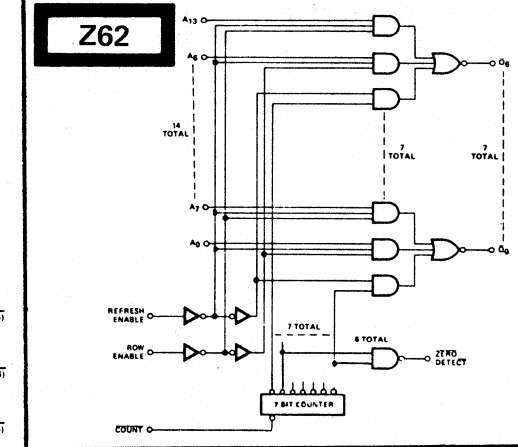
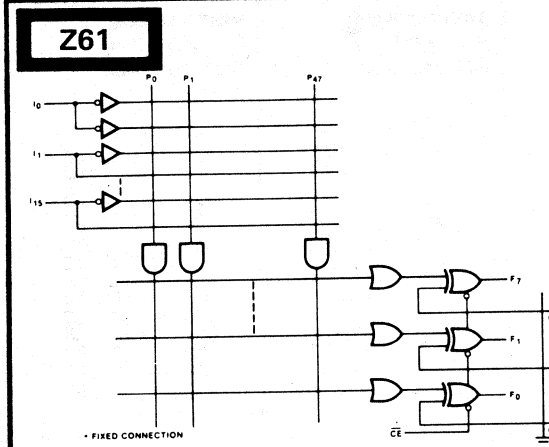
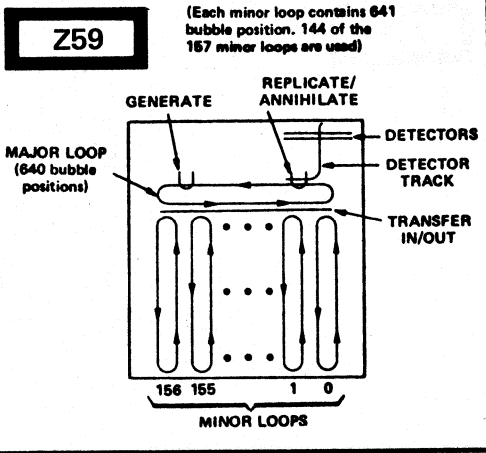
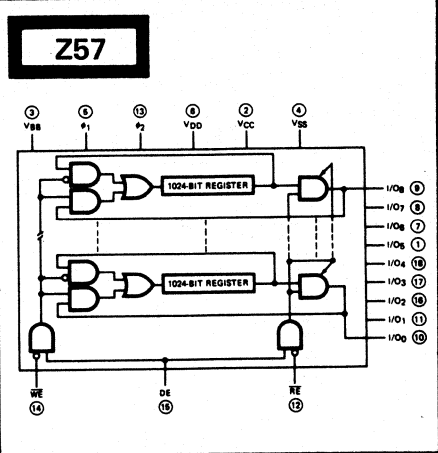
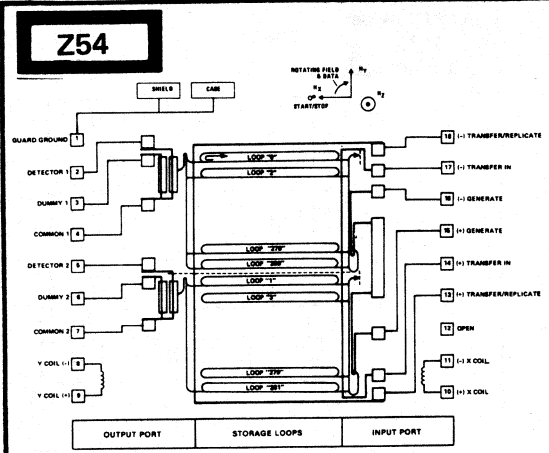


Z53



22. LOGIC/BLOCK DRAWINGS

IN DRAWING NUMBER SEQUENCE



DICE TABLE

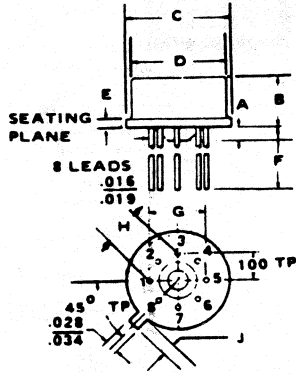
Drawing Number	Number of Connections	Width (A)		Length (B)		Chip Thickness	
		Mils	mm	Mils	mm	Mils	mm
1	14	61-69	1.550-1.752	79-87	2.007-2.209	5-9	0.127-0.228
2	16	79-87	2.007-2.209	81-89	2.058-2/260	5-9	0.127-0.228
3	16	69-77	1.753-1.955	66-74	1.677-1.879	5-9	0.127-0.228
4	24	97-105	2.464-2.667	111-119	2.820-3.022	5-9	0.127-0.228
5	16	92-100	2.337-2.540	102-110	2.591-2.794	5-9	0.127-0.228
6	16	71-79	1.804-2.006	83-91	1.194-1.399	5-9	0.127-0.228
7	16	87-95	2.210-2.413	96-104	2.439-2.641		
8	16	70-78	1.778-1.981	60-68	1.524-1.727		
9	16	69-77	1.753-1.955	82-90	2.083-2.286		
10	16	108-116	2.744-2.996	137-145	3.480-3.683		
11	16	143-151	3.633-3.835	161-169	4.090-4.292		
12	16	87-95	2.210-2.403	107-115	2.717-2.921		
13	24	114-122	2.896-3.098	126-134	3.200-3.403		
14	16	100-108	2.540-2.743	123-131	3.125-3.327		

Dimensions C - 4-10 mils 0.102-0.254mm
 D - 3.3-4.3 mils 0.084-0.109mm unless otherwise noted

23. OUTLINE DRAWINGS

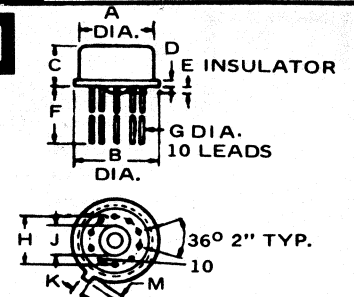
IN DRAWING NUMBER
SEQUENCE

CY4



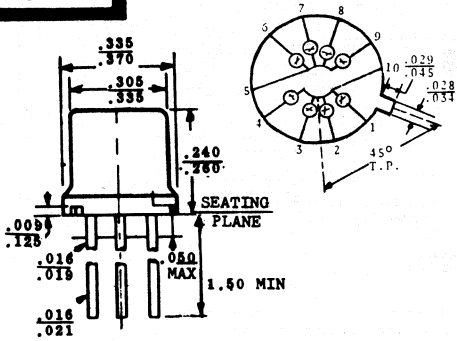
	A	B	C	D	E	F	G	H	J
CY4	.040	.165	.335	.305	.040	.500	.200		.022
	MAX	.185	.370	.335	MAX	MIN	T.P.		.045
CY4a	.050	.185	.335	.305	.040	.500	.200		.028
	MAX	.185	.370	.335	MAX	MIN	T.P.		.045
CY4b	.050	.240	.335	.305	.040	.500	.200		.028
	MAX	.260	.370	.335	MAX	MIN	T.P.		.045
CY4c	.015	.165	.335	.315	.020	.500	.190	.120	.025
	MAX	.185	.370	.325	.030	.562	.210	.140	.040
CY4d	.015	.165	.335	.315	.020	.500	.220	.120	.028
	MAX	.185	.370	.325	.030	.562	.230	.160	.040
CY4e	.015	.240	.335	.325		.500	.230		
	MAX	.260	.362	MAX	MIN				
CY4T	.040	.165	.335	.305	.040	.500	.230		.022
	MAX	.185	.370	.335	MAX	MIN			.045

CY7

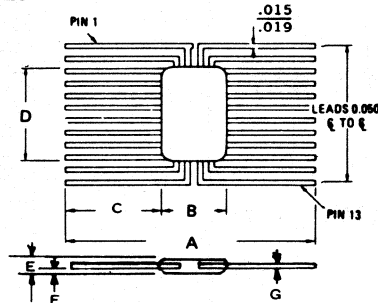


	A	B	C	D	E	F	G	H	J	K	M
CY7	.315	.365	.160	.020	.015	.750	.015	.220	.120	.028	.022
	MAX	.370	.185	.030	.045	.810	.019	.240	.160	.034	.040
CY7a	.305	.335	.165	.040	.050	.500	.016	.230		.028	.022
	MAX	.370	.185	MAX	MAX	MIN	.019			.034	.045
CY7b	.305	.335	.240	.040	.010	.500	.016	.230	.160	.028	.022
	MAX	.370	.260	MAX	.040	MIN	.019	TP	MAX	.034	.045
CY7c	.315	.365	.165	.020	.015	.500		.220	.120	.028	.022
	MAX	.370	.185	.030	.045	.562		.240	.160	.034	.040

CY8

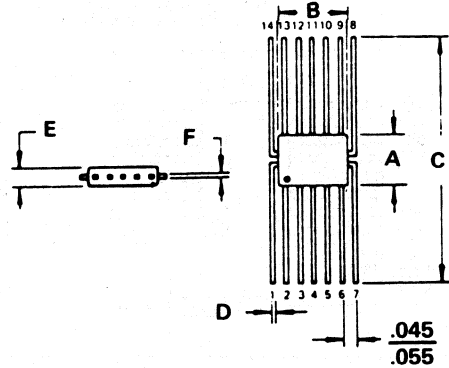


FL3

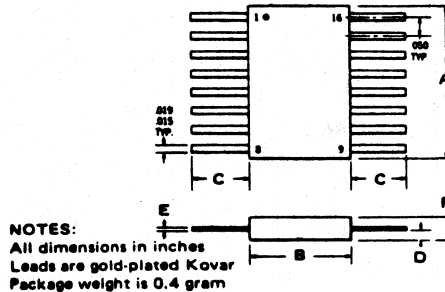


	A	B	C	D	E	F	G
FL3	.973	.283	.335	.408	.043		
	MAX	MAX	MIN	MAX	.063		
FL3a	.990	.270	.360	.390	.034	.016	.003
	MAX	MAX	MAX	MAX	.044	.023	.004
FL3b	.940	.245	.330	.370	.040	.011	.003
	MAX	.275	.370	.395	.070	.039	.004
FL3c	.885	.385	.250	.385	.060	.020	.004
	MIN	.385	.335	.385	.078	.030	.004
FL3d	.940	.245	.330	.370	.050	.020	.006
	MAX	.275	.370	.395	.080	.031	.006

FL11



FL14



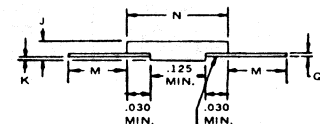
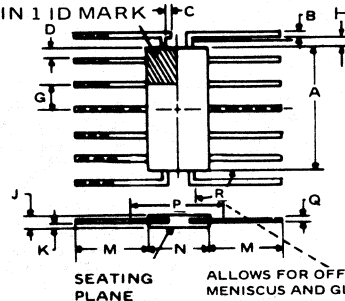
NOTES:
All dimensions in inches
Leads are gold-plated Kovar
Package weight is 0.4 gram

	A	B	C	D	E	F
FL14	.370	.245	.250	.038	.004	.060
	MAX	.280	.350		.006	.085
FL14a	.370	.247	.250		.003	.053
	MAX	.270	.370		.006	.065
FL14b	.390	.270	.260		.004	.045
	MAX	MAX	MIN			.060
FL14c	.360	.240	.070			.030
	MAX	.275	MIN			.070
FL14d	.370	.245	.330	.011	.003	.040
	MAX	.275	.370	.039	.004	.070
FL14e	.385	.270	.360		.003	.050
	MAX	MAX	TYP		.005	.060
FL14f	.395	.270	.330	.025	.003	.070
	MAX	MIN			.007	MAX
FL14g	.371	.247	.250	.024	.004	.049
	MAX	.283	MIN	TYP	.006	.090
FL14h	.371	.247	.250	.024	.004	.055
	MAX	.285	.350	TYP	.006	.080
FL14j	.371	.247	.250	.024	.004	.060
	MAX	.283	.350	TYP	.006	.075

FL21

	A	B	C	D	G	H	J	K	M	N	P	Q	R
FL21	.280	.010	.008	.005	.050	.004	.030	.019	.155	.120	.220	.003	30°
	MAX	.019	.015	MIN	.050	MIN	.070	.040	.390	.200	MAX	.006	90°
FL21a	.280	.010	.008	.005	.050	.004	.030	.010	.250	.240	.290	.003	30°
	MAX	.019	.015	MIN		MIN	.085	.040	.370	.260	MAX	.006	90°

INDEX AREA,
NOTCH OR
PIN 1 ID MARK



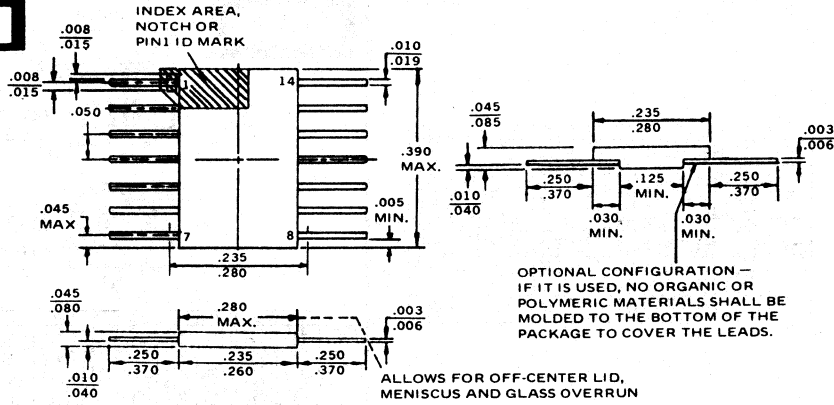
OPTIONAL CONFIGURATION
FOR FL21 ONLY - IF IT IS
USED, NO ORGANIC OR
POLYMERIC MATERIAL SHALL
BE MOLDED TO THE BOTTOM
OF THE PACKAGE TO COVER
THE LEADS.

SEATING PLANE
ALLOWS FOR OFF-CENTER LID,
MENISCUS AND GLASS OVERRUN

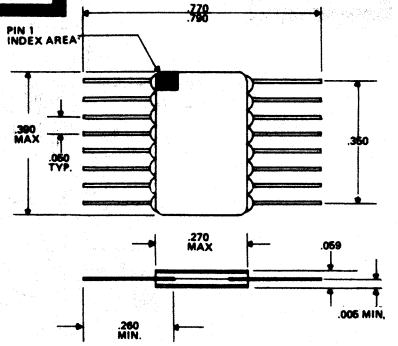
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

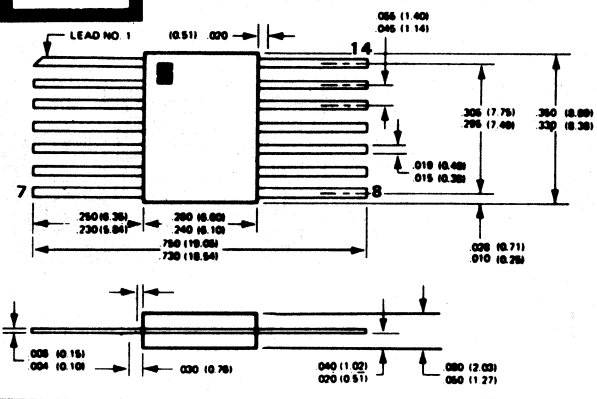
FL22



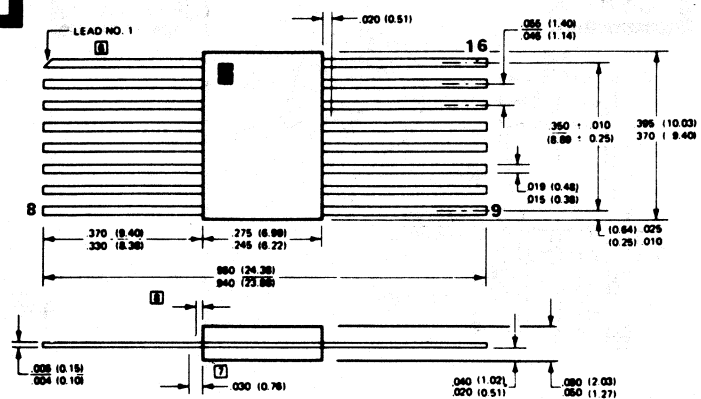
FL23



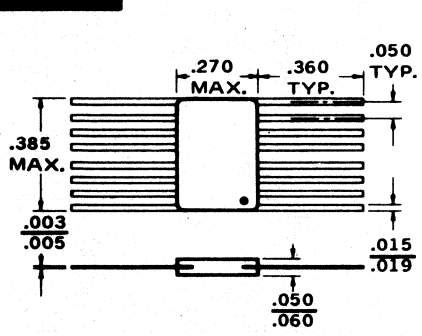
FL24



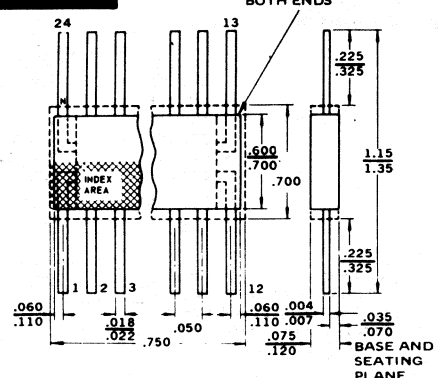
FL25



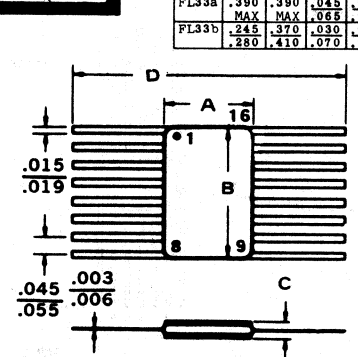
FL27



FL28

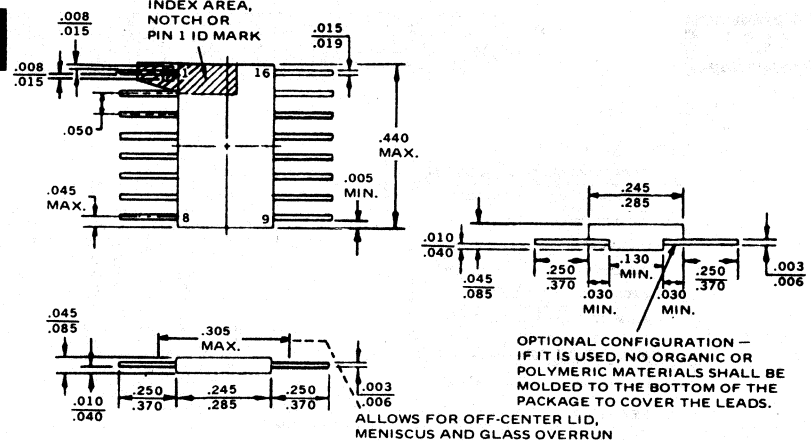


FL33

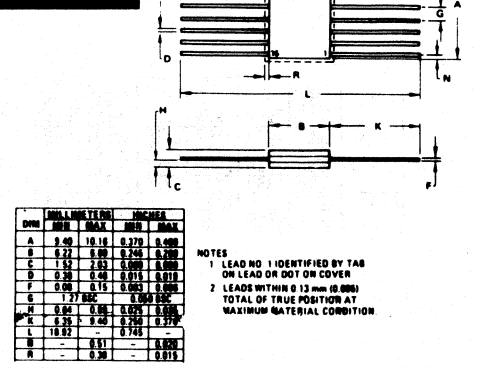


	A	B	C	D
FL33	.240	.360	.070	.930
FL33a	.280	.410	MAX	.980
FL33b	MAX	MAX	.065	.980
	.245	.370	.030	.930
	.280	.410	.070	.980

FL31



FL34



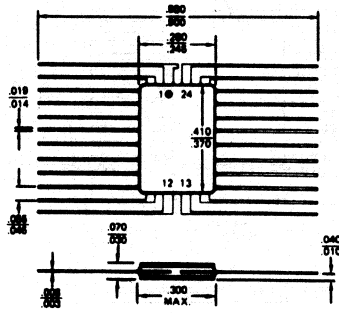
	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
A	3.40	10.16	0.370	0.400
B	0.22	0.60	0.240	0.280
C	1.52	2.65	0.060	0.060
D	0.28	0.40	0.011	0.012
E	0.00	0.15	0.000	0.000
F	1.27	1.27	0.050	0.050
G	0.64	0.64	0.025	0.025
H	0.38	0.40	0.200	0.210
I	10.82	-	0.745	-
J	-	0.51	-	0.020
K	-	0.38	-	0.015

- NOTES
- LEAD NO. 1 IDENTIFIED BY TAB OR LEAD OR DOT ON COVER
 - LEADS WITHIN 6.13 mm (0.240") TOTAL OF TRUE POSITION AT MAXIMUM MATERIAL CONDITION

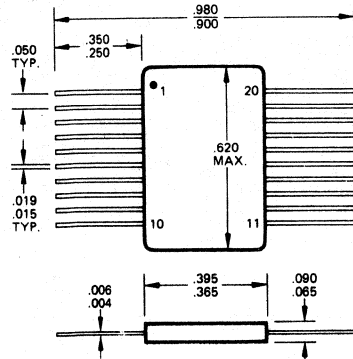
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

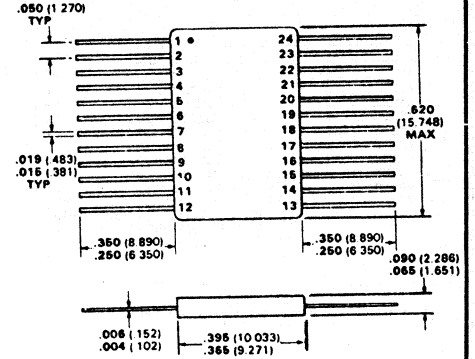
FL40



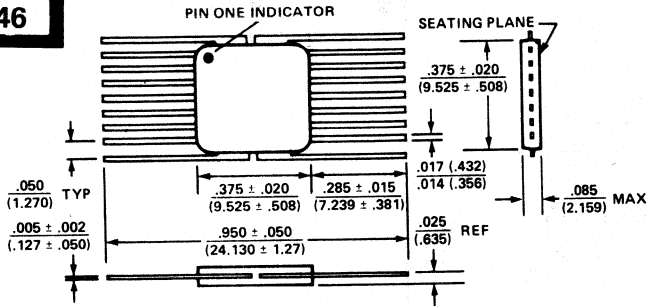
FL44



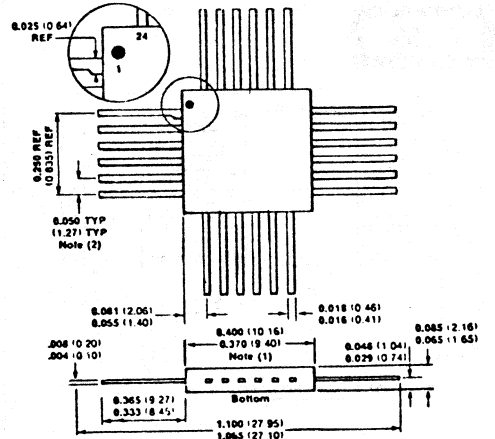
FL47



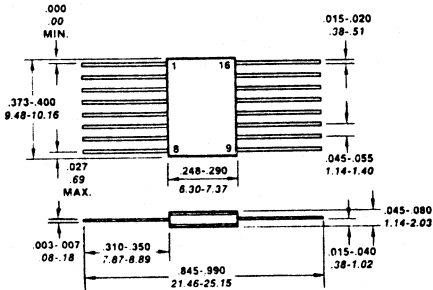
FL46



FL48

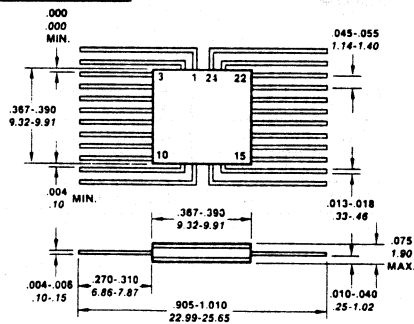


FL49



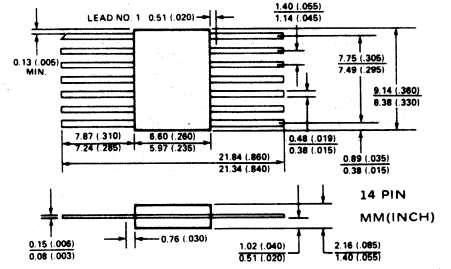
UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS.

FL50



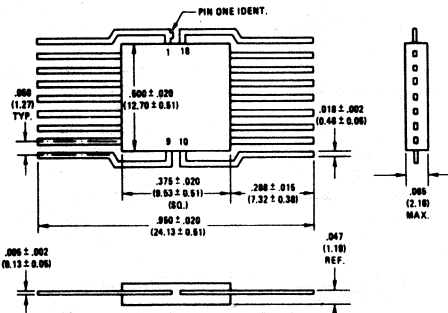
UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS.

FL51



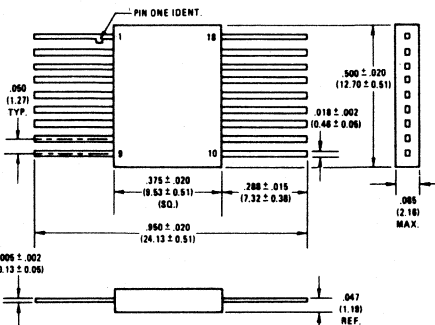
FL52

INCH (MM)



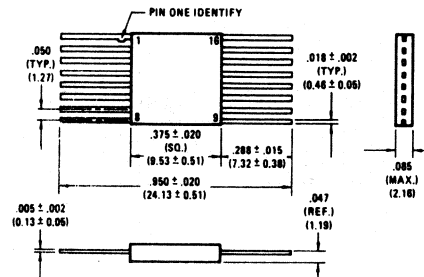
FL53

INCH (MM)



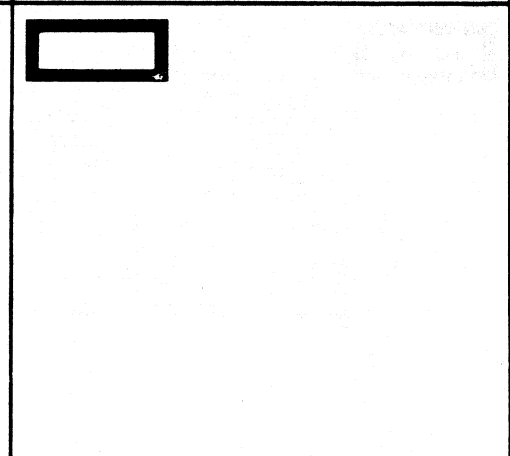
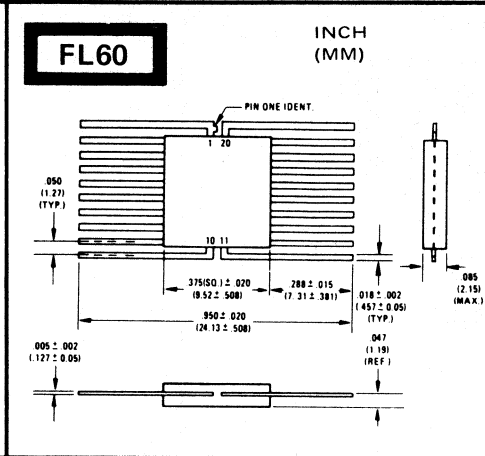
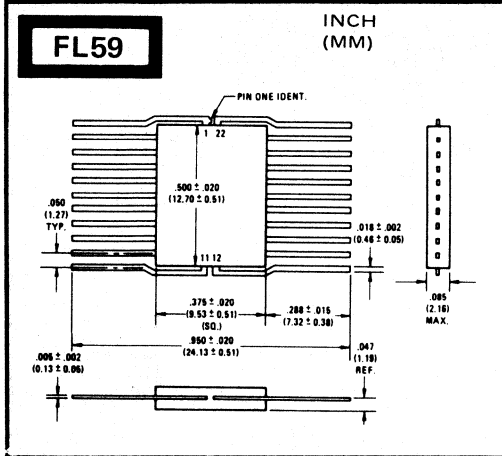
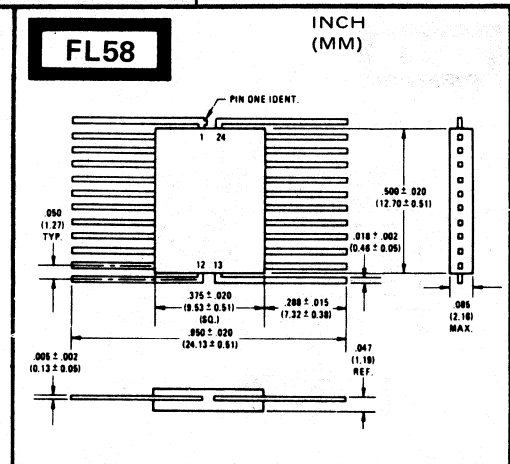
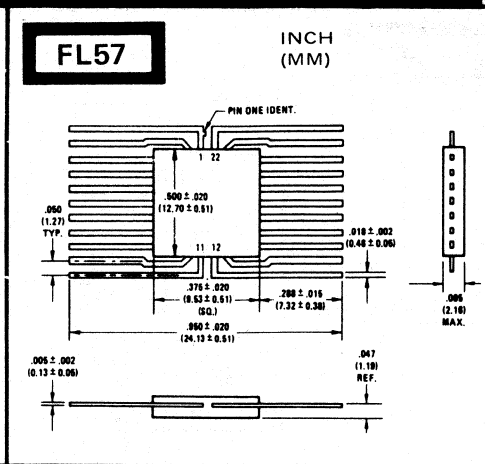
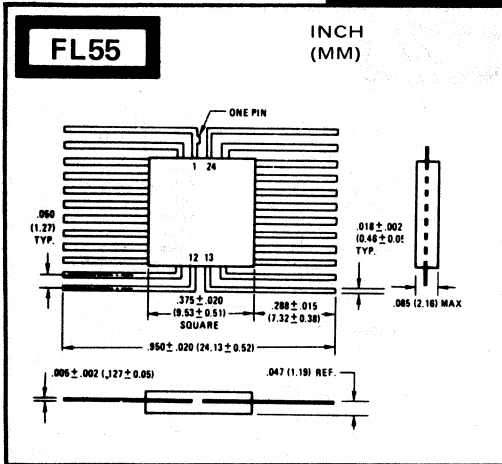
FL54

INCH (MM)



23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

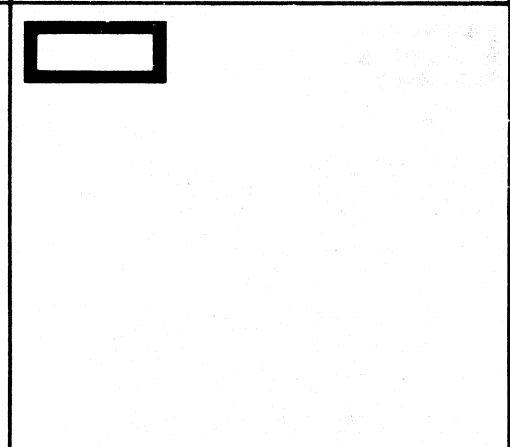


FL62

MFR.	PKG.	USE DWG.
TII	W	MO004AA
MOTA	W	FL61
AMV	W	FL66

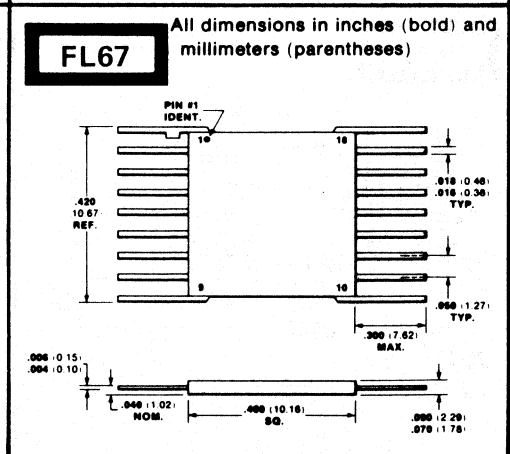
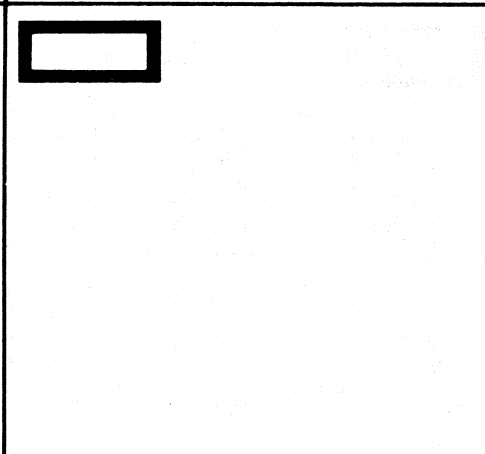
FL63

MFR.	PKG.	USE DWG.
TII	W	MO004AG
MOTA	W	FL34
AMV	W	FL33b



FL65

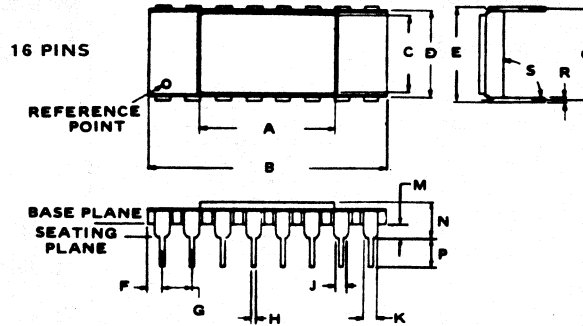
MFR.	PKG.	USE DWG.
MOTA	W	FL64
AMV	W	FL70



23. OUTLINE DRAWINGS

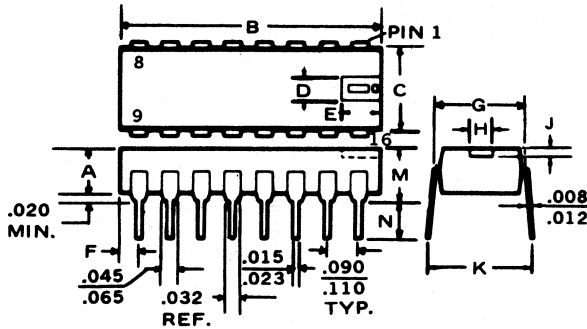
IN DRAWING NUMBER
SEQUENCE

ML1



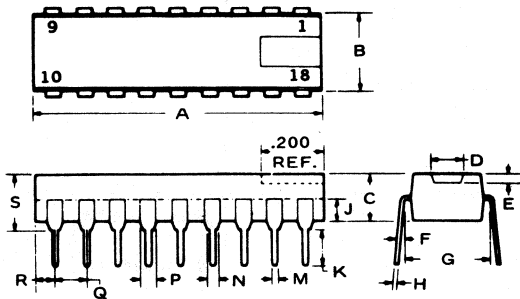
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	NOTCH
ML1	.800				.320		.092				.018	.180		.300			
	MAX				MAX		.108				MIN	MAX					
ML1a	.808				.294		.092				.015	.194	.130	.294			
	MAX				MAX		.108				MIN	MAX	.400				
ML1e	.485	.810		.295		.040		.015			.020	.165	.125	.300	.008		
	MAX	MAX		MAX		.060		.020			.060	MAX	MIN	.400	.012		
ML1h	.350	.735		.240		.030	.090	.015	.040		.020	.175	.150	.290	.008		NO NOTCH
	.430	.830		.295		.060	.110	.020	.055		MIN	MAX	MIN	.310	.012		
ML1j	.810			.275	.290		.100	.015			.020	.200	.090		.008		NO
	MAX			.295	.310		TYP	.020			MIN	MAX	MIN		.012		
ML1k	.430	.770	.265	.278	.290		.090	.015		.045	.110	.125	.375	.010			YES
	.470	.810	.285	.300	.310		.100	.020		.065	MIN	.160	MIN	NOM	.012		
ML1m	.780		.287	.299		.050	.090	.015	.032	.042	.020	.160	.120	.290	.008		YES
	.800		.299			MAX	.110	.023	REF	.062	.043	MAX	.140	.310	.012		
ML1p	.780		.287			.050	.090	.015	.032	.042	.020	.200	.120	.290	.008		YES
	.800		.299			MAX	.110	.023	REF	.062	.043	MAX	.140	.310	.012		

ML2



	A	B	C	D	E	F	G	H	J	K	M	N
ML2a	.130	.820	.245	.075	.125	.062	.290	.075	.035	.290	.200	.100
	.155	.860	.255				.310			.410	MAX	MIN
ML2b	.082	.750	.185				.300			.330	.200	.100
	.100		MAX				.310			.370	MAX	MIN
ML2g		.870	.260				.300			.350	.200	.130
		MAX	MAX				TYP			MAX	MAX	TYP
ML2k	.181	.870	.240			.094	.287			.301	.200	.125
	MAX	MAX	.263			MAX	.311			.348	MAX	MIN
ML2m	.170	.744	.241				.325			.288	.185	.125
	MAX	.860	.251				MAX			.375	MAX	.183

ML3

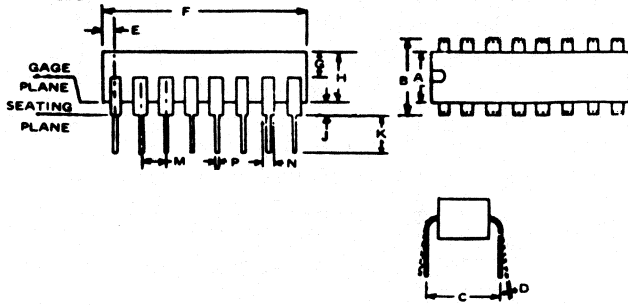


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	REMARKS
ML3	.805	.240	.140	.100	.025	15°	.290	.008	.075	.100	.015	.032	.045	.090	.0575	.200	NOTCH
	.925	.260	.160	REF	REF	MAX	MIN	.012	REF	.150	.024	REF	.065	.110	REF	MAX	
ML3b	.920						.290	.008		.125	.015	.033	.060	.100	.030	.200	NOTCH
	MAX						.310	.013		MIN	.021	MIN			.070	MAX	
ML3g	.885	.252				15°	.300	.009		.100	.019		.055	.100		.181	NOTCH
	MAX					MAX				MIN						MAX	
ML3h	.890	.251	.139		.020		.290	.009		.125	.018		.060	.090	.050	.159	NOTCH
	.910	.261	.149		.030		.310	.011		MIN	.020			.110	TYP	.169	
ML3j	.850	.240	.170				.290	.008		.100	.015		.045	.090	.025	.210	NOTCH
	.930	.295	MAX				.410	.012		.165	.023		.070	.110	.085	MAX	
ML3k	.920	.270				15°	.325	.008		.125	.015	.033	.070	.100	.200		GROOVE OR NOTCH
	MAX	MAX				MAX	MAX	.014		MIN	.021	TYP	MAX	TYP	MAX		

23. OUTLINE DRAWINGS

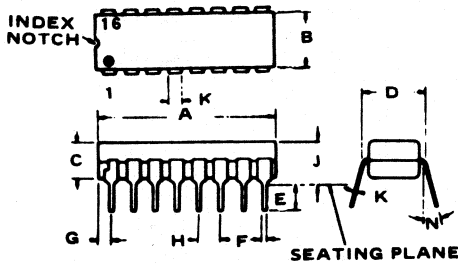
IN DRAWING NUMBER
SEQUENCE

ML4



	A	B	C	D	E	F	G	H	J	K	M	N	P	REMARKS
ML4d	.220	.290	.290	.008	.747			.200		.100	.080	.030	.014	NOTCHED OR DOT
ML4g	.240	.300	.300	.008	.745			.100	.020	.125	.100		.014	
ML4j	.245	.290	.008	.045	.745			.125	.020	.100	.080	.032	.015	NOTCHED
	.255	.410	.012	.065	.855			.155	MIN	MIN	.110	REF	.023	

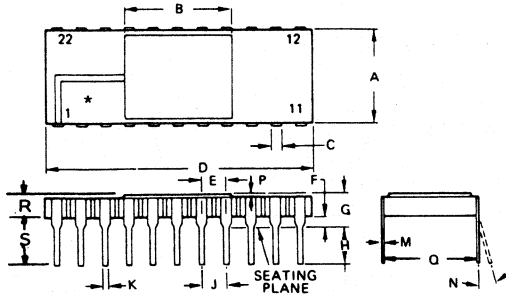
ML5



	A	B	C	D	E	F	G	H	J	K	L	M	N	REMARKS
ML5	.740	.240	.135	.290	.115	.015	.015	.090	.170	.008			0°	
ML5a	.795	.275	.165	.325	.135	.020	.035	.110	.200	.012			15°	
ML5b	.815	.240	.025	.290	.115	.015	.052	.100	.160	.008			10°	
ML5c	.740	.245	.115	.290	.120	.015		.090	.130	.003			15°	NO INDEX NOTCH
ML5e	.810	.250	.180	.290	.090	.015		.100	.200	.008			15°	
ML5f	.789	.295	MAX	.310	MIN	.020		TYP	MAX	.012			MAX	

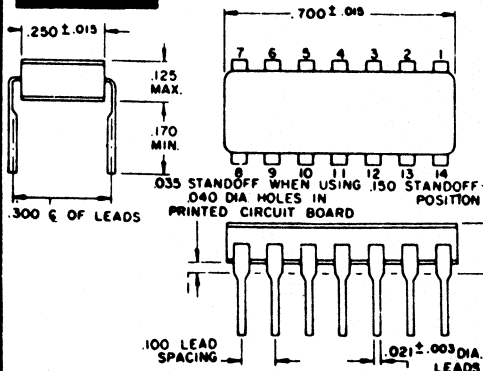
ML8

* - NOT INCLUDED IN ML8b AND ML8h.

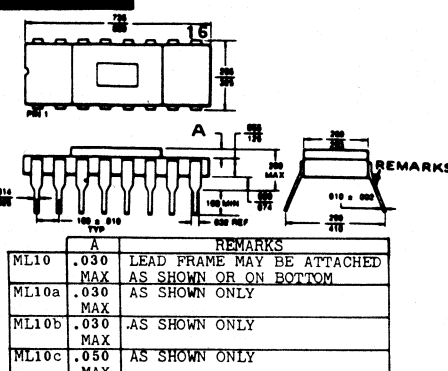


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S
ML8a	.375	.425	.040	1.065	.095	.025	.085	.125	.100	.017	.008	0°				
ML8c	.380	REF	REF	1.100	.105	.035	.085	.125	T.P.	.023	.012	7°			.400	
ML8d	.380		.043	1.090		.020	.200	.100		.016	.010	0°		.390		
ML8e	.340		.060	1.09		.020	.160	.100		.016	.010	0°		.400		
ML8n	.380		.040	1.100		MIN	.180	.150		.023		15°				
ML8u	.380	.040	1.060		.015	.170	.100	.090	.014	.008			.380	.085		
ML8w	.410	.065	1.100		MIN	MAX	MIN	.110	.023	.015			.480	.135		
ML8x	.380	.030	1.069		.025			.100	.015	.008	0°		.390	.110	.125	
	.396	.055	1.091		.050				.021	.012	10°		.410	.140	.175	

ML9



ML10

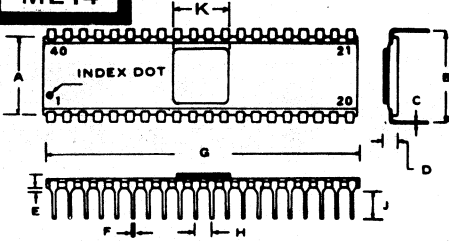


	A	REMARKS
ML10	.030	LEAD FRAME MAY BE ATTACHED
ML10a	MAX	AS SHOWN OR ON BOTTOM
ML10a	.030	AS SHOWN ONLY
ML10b	.030	AS SHOWN ONLY
ML10b	MAX	
ML10c	.050	AS SHOWN ONLY
ML10c	MAX	

23. OUTLINE DRAWINGS

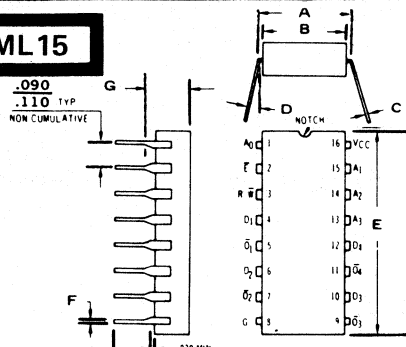
IN DRAWING NUMBER SEQUENCE

ML14



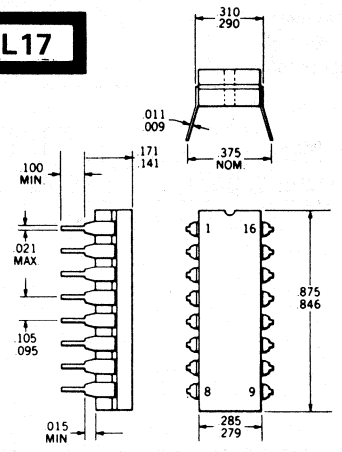
	A	B	C	D	E	F	G	H	J	K
ML14	.500	.600	.011	.130	.020	.021	2.00	.100	.125	
ML14a	.385	.600	.010	.185	.020	.015	2.02	.085	.120	
			MAX	MIN	MAX	MAX			.115	.180
ML14b	.510	.600	.011	.130	.025	.021	2.01	.100	.200	
			MAX	MIN	MAX	MAX			MIN	
ML14c		.600	.010	.020		2.04	.100	.090		
		NOM	NOM	MIN	MAX	NOM	MIN			
ML14d	.590	.600	.008	.165	.020	.016	2.020	.090	.125	.520
			MAX	MAX	MAX	MAX	MAX		MIN	

ML15

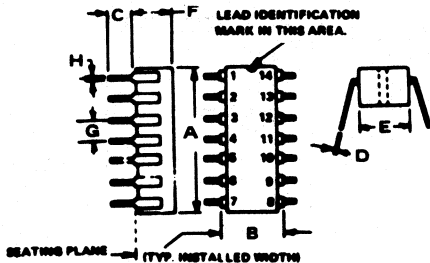


	A	B	C	D	E	F	G
ML15a	.290	.265	.009		.755	.016	.170
	.310	.291	.011		.758	.020	.219

ML17

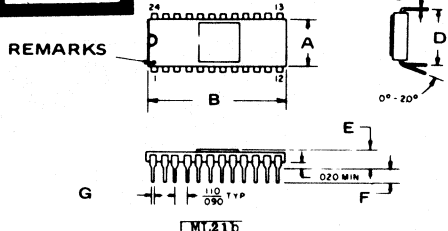


ML19



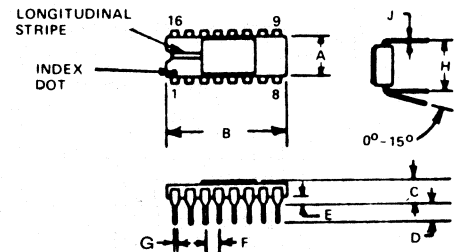
	A	B	C	D	E	F	G	H
ML19a	.685	.325	.100	.008	.240	.200	.090	.015
	.785	MAX	MIN	.015	.280	MAX	.110	.023
ML19c	.775	.350	.150		.200	.200	.090	.015
	MAX	MAX			MAX	MAX	.110	.023
ML19f	.755	.320	.130	.008	.260	.200	.090	.015
	.785	.310	MIN	.014		MAX	.110	.023

ML21



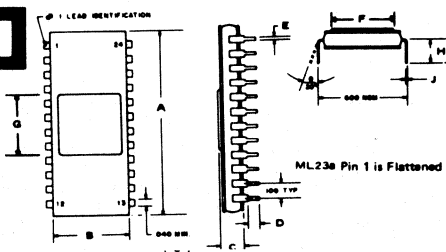
	A	B	C	D	E	F	G	REMARKS
	.645	1.300	.010	.650	.195	.215	.020	INDEX DOT ONLY
	.515	1.200	.008	.600	.120	.140	.015	

ML22



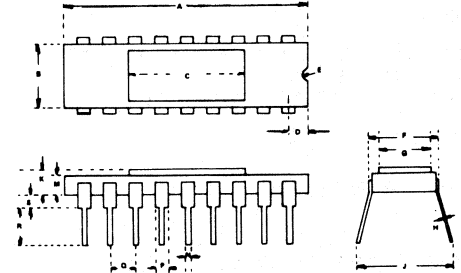
	A	B	C	D	E	F	G	H	J
ML22	.240	.740	.160	.090	.020	.090	.014	.290	.008
	.295	.830	MAX	MIN	MIN	.110	.025	.350	.015

ML23



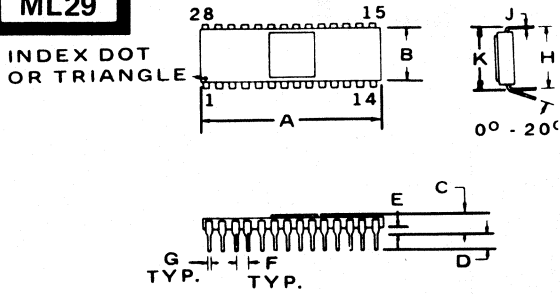
	A	B	C	D	E	F	G	H	J
ML23b	1.300	.495	.137	.090	.015	.397	.397		.010
	MAX	.595	MAX	MIN	.019	.495	.495		TYP

ML25



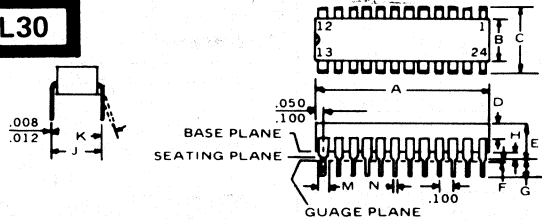
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S
ML25a	.890	.278	.460	.040	.025	.290	.271	.009	.375	.125	.065	.016	.040	.095	.125	.040
	.910	.288	.470	.060		.310	.281	.011		.155	.085	.020	.045	.105	.175	.060

ML29



	A	B	C	D	E	F	G	H	J	K
ML29	1.33	.475	.160	.090	.020	.090	.014	.590	.008	.590
	1.47	.530	MAX	MIN	MIN	.110	.020	.650	.015	.650

ML30

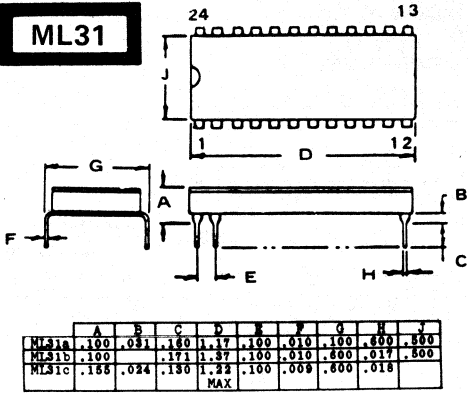


	A	B	C	D	E	F	G	H	J	K	M	N	REMARK
ML30e	1.15	.480	.600	.020	.090	.000	.100	.020	.600	0°	.045	.015	NC NCTCH
	1.22	.520	.625	.080	.150	.030	.180	.065		15°	.055	.020	
ML30g	1.14	.515	.590		.200	.015	.125	.015	.590	0°	.030	.014	
	1.29	.610	.620		.280	.080	.200	.080	.620	15°	.070	.023	
ML30h	1.244	.540		.075	.150		.125	.075	.600	0°	.060	.018	
	1.256						MIN		.660	15°		TYP	
ML30j	1.235	.510	.600		.155		.100	.015	.620	0°	.040	.015	NC NCTCH
	1.265	.530	.620		.220		.160	.040	.660	15°	.065	.023	
ML30k	1.290	.600	.625		.200		.125	.015		0°	.070	.015	
	MAX	MAX	MAX		MAX					15°	MAX	.021	
ML30l	1.310	.530	.600		.200	.020	.100	.020		0°		.018	
	MAX	MAX	MAX		MAX	MIN	MIN	MIN		15°			

23. OUTLINE DRAWINGS

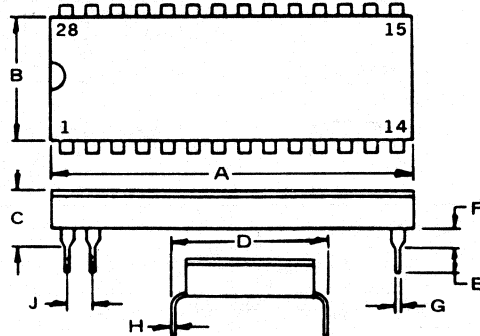
IN DRAWING NUMBER SEQUENCE

ML31



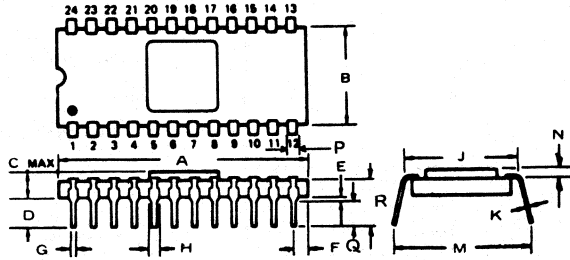
	A	B	C	D	E	F	G	H	J
ML31a	.100	.031	.160	1.17	.100	.010	.100	.600	.500
ML31b	.100		.171	1.37	.100	.010	.600	.017	.500
ML31c	.188	.024	.180	1.22	.100	.009	.600	.018	
			MAX						

ML32



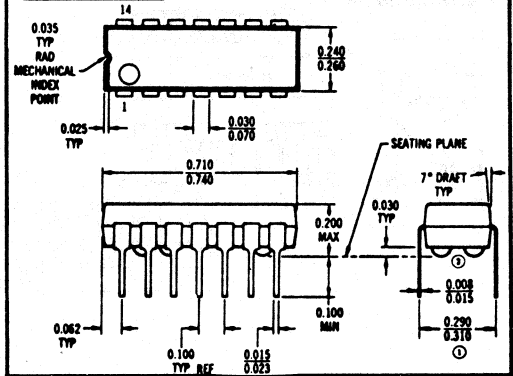
	A	B	C	D	E	F	G	H	J
ML32	1.37	.500	.150	.600	.145	.075	.017	.010	.100
ML32a	1.40	.500	.150	.600	.145	.075	.017	.010	.100
ML32b	1.37		.100	.550	.160	.081	.017	.010	.100
			MAX						

ML34

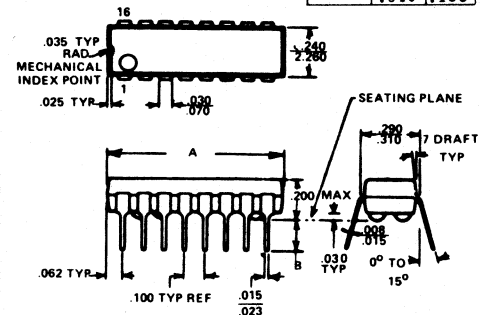


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
ML34c	1.17	.490	.125	.165	.040		.015	.032	.590				.043		
	1.30	.550	MAX				.022		.610				.060		
ML34e	1.17	.490	.150		.015		.015	.045	.590					.050	
	1.30	.545	MAX		.065		.023	.055	.610					.170	
ML34f	1.310	.480	.180		.020		.015		.590	.008				.090	
	MAX	.580	MAX		MIN		.020		.610	.012				MIN	
ML34g	1.250		.200		.020				.600	.010				.090	
	MAX		MAX		MIN									MIN	

ML38

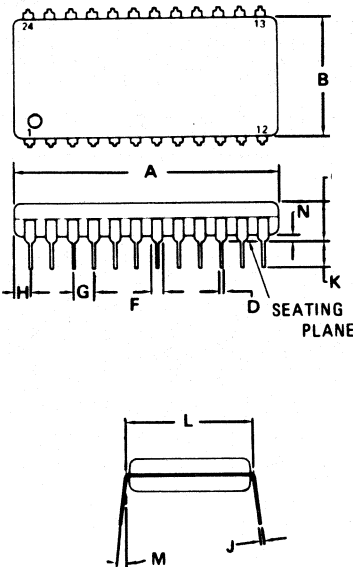


ML40



	A	B
ML40	.860	.100
ML40a	MAX	MIN
	.810	.115
	.840	.135

ML39

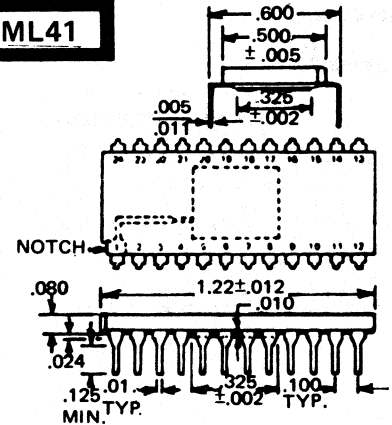


	A	B	C	D	F	G	H	J	K	L	M	N
ML39	1.235	.540	.180	.014	.040	.095	.070	.008	.120	.580	.07	.020
	1.265	.560	.200	.020	.060	.105	.080	.012	.140	.600	TYP	.040
ML39a	1.150	.480	.090	.015	.015	.100	.020	.008	.100	.400	.18	.020
	1.220	.520	.150	.020	.055	TYP	.060	.012	.180	TYP	MAX	.065
ML39d	1.220	.600	.175									
	MAX	MAX	MAX									

NOTES:

- LEADS, TRUE POSITIONED WITHIN 0.25 mm (0.010) DIA AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION (DIM "D")
- DIM "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.

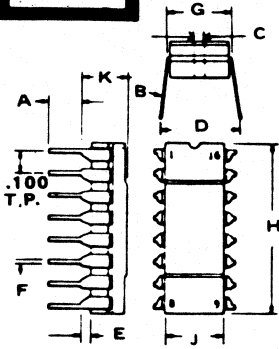
ML41



23. OUTLINE DRAWINGS

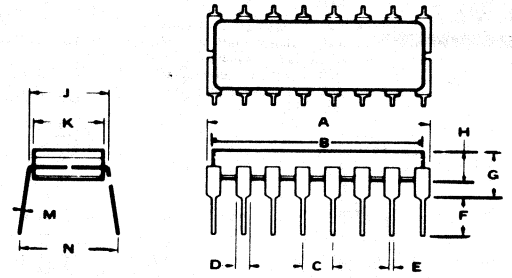
IN DRAWING NUMBER SEQUENCE

ML61



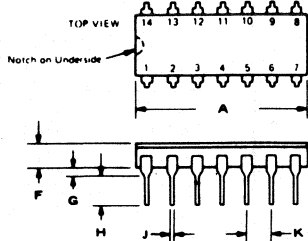
	A	B	C	D	E	F	G	H	J	K
ML61	.100	.009		.375	.015	.033	.290	.750	.240	.200
	MIN	.011			MIN	MAX	.310	.785	.280	MAX
ML61a	.130	.008	.050	.300	.020	.015	.290	.755	.245	.200
	MIN	.014		.350	MIN	.023	.310	.785	.280	MAX
ML61c	.125	.008		.325	.020	.015	.290	.755	.250	.145
	MAX	.014		.395	.040	.023	.315	.785	MAX	.178
ML61e	.125	.008			.020	.015	.290	.750	.245	.180
	MAX	.012			.040	.020	.310	.780	.275	.200

ML62



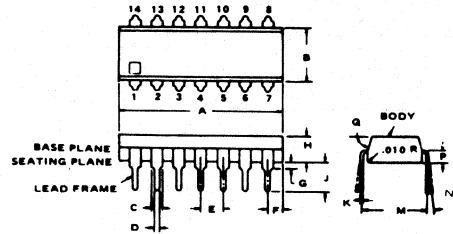
	A	B	C	D	E	F	G	H	J	K	M	N
ML62	.740		.090	.055	.019		.100	.200	.090	.290	.235	.375
	MAX		.110				MIN	MAX	.110	.310	.255	.011
ML62a		.700	.090	.040	.016	.100	.200	.145	.290	.245		
		MIN	.110	MIN	MIN	MAX	MAX	MAX	.310	.275		
ML62b	.780	.725	.090		.015	.105	.180		.320	.265	.010	.310
	MAX	MAX	.110		.019	.145	MAX		MAX	MAX		.350
ML62c	.730		.090	.030	.018	.100	.200	.180	.290	.230	.008	.350
	MAX		.110	.070	.023	MIN	MAX	MAX	.310	.265	.015	NOM

ML63



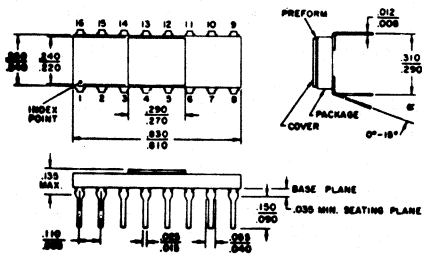
	A	B	C	D	E	F	G	H	J	K
ML63b	.660	.290	.230	.350	.008	.120	.020	.100	.015	.090
	.785	.310	.265	TYP	.011	.180	.080	MIN	.023	.110
ML63c	.750	.308	.245		.009	.140	.015	.125	.016	.100
	.785	.314	.271		.011	.185	.060	.200	.020	TYP

ML64

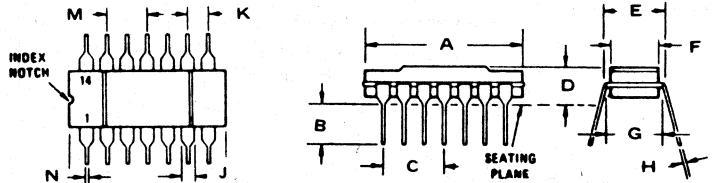


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	REMARKS
ML64	.740	.245	.050	.018	.050	.085	.015	.118	.135	.018	.290	.310	.060	70°	
	.780	.285	.064	.021	.110	.085	.035	.125	.165	.020	.310				INDEX DOT
ML64a	.745	.240	.050	.014	.100		.020								
	.770	.280	.085	.020			.050								
ML64f	.800	.252		.018	.100		.019	.181	.149		.300				
	MAX			.020				.188							

ML65

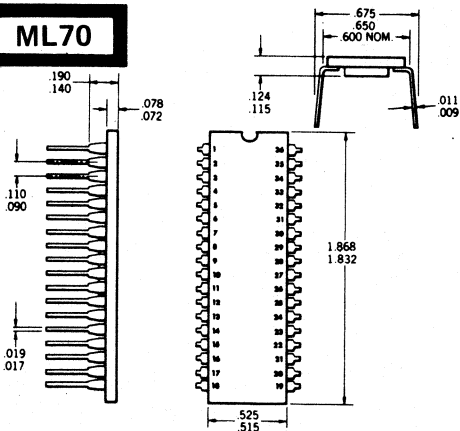


ML66



	A	B	C	D	E	F	G	H	J	K	M	N
ML66	.660	.100	.290	.200	.325	.220	.290	.008	.030	.090	.190	.015
	.780	MIN	.310	MAX	MAX	.280	.310	.015	.070	.110	.210	.023
ML66a	.755	.130		.200		.245	.290	.008	.070	.100		.015
	.785	MIN				.280	.310	.014	MAX			.023
ML66b	.755	.130		.200	.325	.280	.290	.008	.070	.090		.015
	.785	MIN			MAX	.375	MAX	.310	.014	MAX	.110	.023

ML70



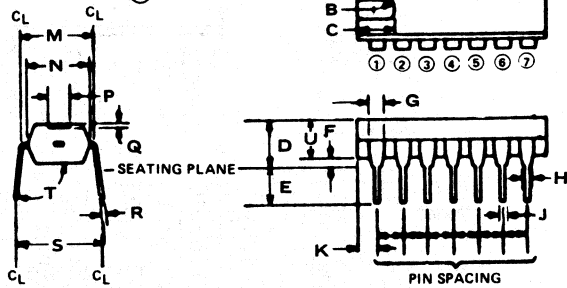
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

ML71

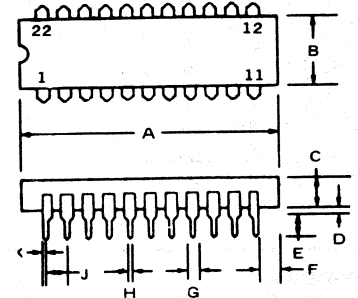
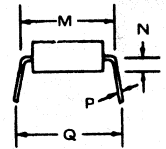
NOTES:

a. the true-position pin spacing is 0.100 between centerlines. Each pin centerline is located within .010 of its true longitudinal position relative to pins 4 and 11



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	U
ML71	.710 .770	.093	.110	.200 MAX	.125 MIN	.020 MIN	.070	.033 MIN	.015 .021	.055 .095	.290 .310	.240 .260	.080	.010	.008 .014	.300 .350	90° 105°	
ML71f	.748	.098		.200	.110	.019	.045		.019	.074	.300	.251			.010	.300	90° 105°	
ML71g	.767 MAX			.185 MAX	.120 MIN	.020 MIN	.047		.014 .020	.086	.324 MAX				.009	.300 .374		

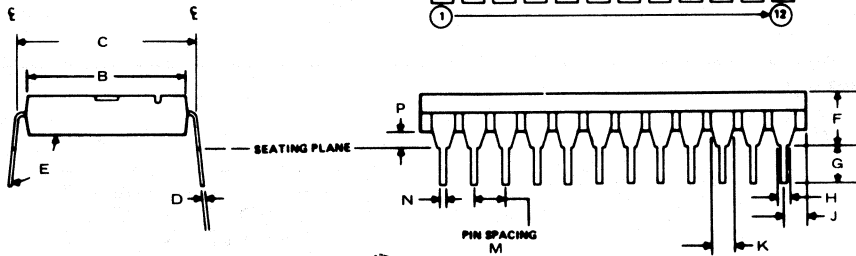
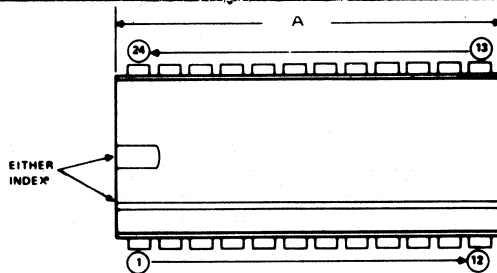
ML77



	A	B	C	D	E	F
ML77	1.080 MAX	.270 MAX	.170 MAX	.030 MIN	.150 MIN	.010 MIN
ML77b	1.141 MAX		.180 MAX	.020 MIN	.114 MIN	.078 MAX
ML77e	1.12 MAX	.360	.165 MAX	.035 MAX	.100 MAX	
ML77h	1.060 MAX	.364 MAX	.170 MAX	.020 MIN	.150 MIN	.025 MAX
ML77j	1.100 MAX	.400 MAX	.130 MAX	.020 MIN	.125 MIN	.100

	G	H	J	K	M	N	P	Q
.060 TYP	.015	.100	.025	.400	.045	.008	.370	
.047	.021	REF	MAX	.429 MAX	.065	.012	.480	
	.020 TYP	.100 TYP		.400		.010	.400	
.056 TYP	.018 TYP	.100 TYP		.420 MAX		.009	.515	
	.015 TYP	.090 TYP		.380 MAX		.011	.435	
	.021	.110		.420		.012	.535	

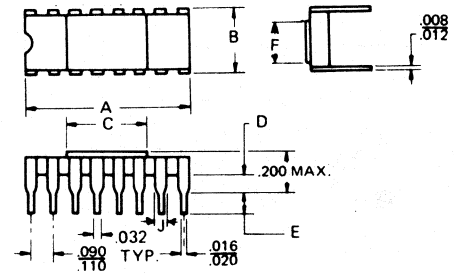
ML72



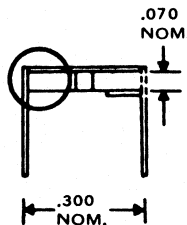
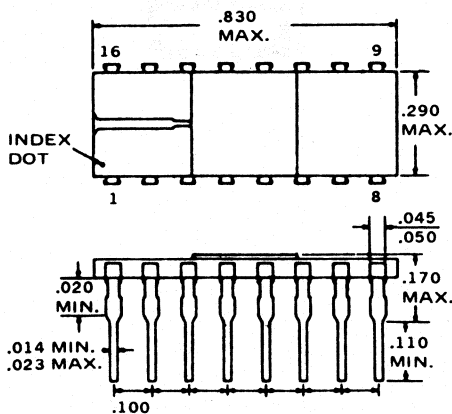
	A	B	C	D	E	F	G	H	J	K	M	N	P	REMARKS
ML72	1.310 MAX	.550	.625 .675	.008 .014	90° 105°	.200 MAX	.125 MIN	.033 MIN	.095 MAX	.070 MAX	.100	.015 .021	.020 MIN	NOTCH ONLY
ML72a	1.245 MAX	.585 .595	.625 .675	.008 .014	90° 105°	.200 MAX	.125 MIN	.033 MIN	.095 MAX	.070 MAX	.100	.015 .021	.020 MIN	NOTCH ONLY
ML72b	1.290 MAX	.590 .610	.625 .675	.008 .014	90° 105°	.200 MAX	.125 MIN	.033 MIN	.095 MAX	.060	.100	.015 .021	.020 MIN	EITHER INDEX
ML72c	1.310 MAX	.550	.625 .675	.008 .014	90° 105°	.200 MAX	.125 MAX	.033 MIN	.095 MAX		.100	.015 .021	.020 MIN	NOTCH ONLY
ML72f	1.270 MAX	.550 MAX	.625 MAX	.008 .014	90° 105°	.200 MAX	.125 MIN	.033		.070 MAX	.100	.015 .021	.020 MIN	EITHER INDEX
ML72g	1.299 MAX	.519	.600	.010	90° 105°	.225 MAX	.126 MIN				.100	.019	.029 MIN	NOTCH ONLY

ML84

	A	B	C	D	E	F	G	H	J
ML84	.775 .825	.290 .310	REF	.040	.100 MIN	.200 REF	.030	.070 TYP	.054 TYP

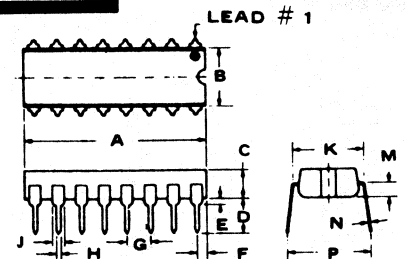


ML82



LEADS MAY BE BRAZED TO SIDE OR BOTTOM OF PACKAGE

ML85

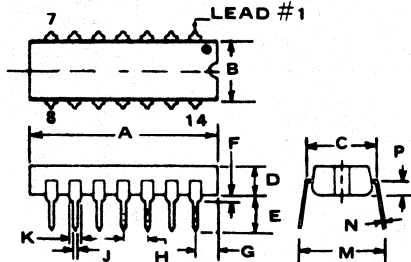


	A	B	C	D	E	F	G	H	J	K	M	N	P	REMARKS
ML85	.775 MAX	.290 MAX	.472 REF	.040	.100 MIN	.200 REF	.030	.070 TYP	.054 TYP					

23. OUTLINE DRAWINGS

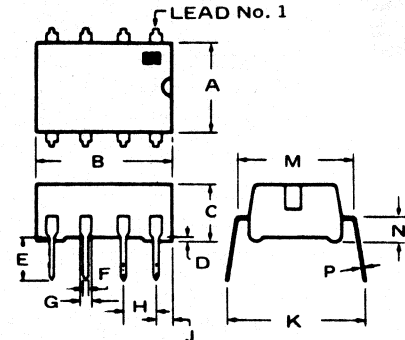
IN DRAWING NUMBER SEQUENCE

ML86



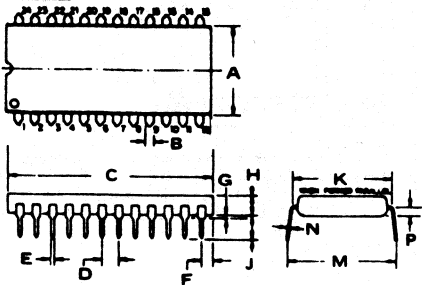
	A	B	C	D	E	F	G	H	J	K	M	N	P
ML86	.745	.245	.280	.115	.135	.015	.085	.090	.015	.044	.325	.010	.057
	.755	.252	.310	.125	.165	.035	.085	.110	.021	.052	.375	.015	.068
ML86a	.740	.240	.290	.145	.135	.015		.100	.015	.040	.325	.008	
	.770	.280	.310		MIN	MIN			.023	.050	.375	.015	
ML86b	.697	.256	.300		MIN	.020		.100	.020		.299	.008	
	MAX	MAX	TYP						TYP		.394	.014	
ML86c	.783		.324	.180	.120	.020		.100	.015	.044	.300	.009	
	MAX		MAX	MAX	.170			.100	.020	.062	.300	.011	

ML87



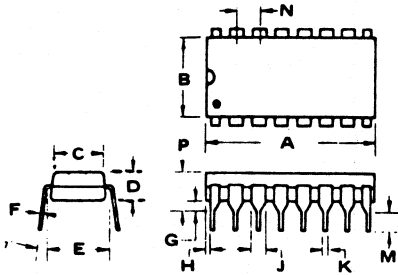
	A	B	C	D	E	F	G	H	J	K	M	N	P
ML87	.250	.365	.155	.010		.015	.044	.090	.025	.325	.290	.100	.010
	MAX	.375	.165	MIN		.020	.050	.110	.045	.375	.310	MAX	
ML87a	.245	.365	.155	.010	.120	.015	.044	.090	.025	.325	.290	.075	.010
	MAX	.375	.165	.020	.135	.021	.052	.110	.045	.375	.310	.085	.015

ML88



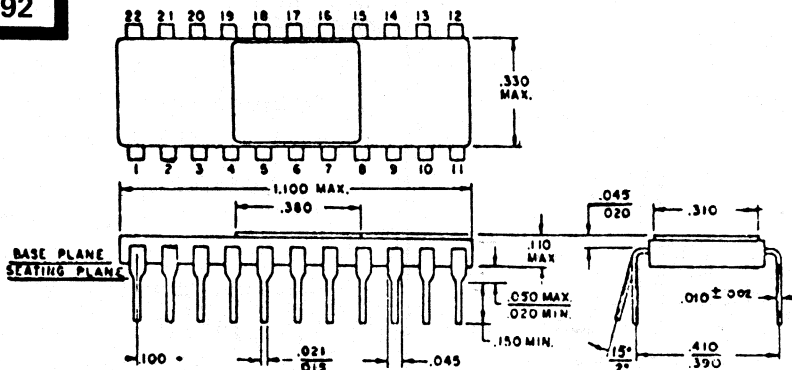
	A	B	C	D	E	F	G	H	J	K	M	N	P	REMARKS
ML88	.540	.040	1.24	.090	.015	.065	.030	.115		.600	.645	.015	.045	
	.560	.050	1.26	.110	.020	.085	.060	.125			.660	MAX	.055	
ML88a	.527		1.25	.090	.017		.020	.208	.120	.590		.007		INDEX NOTCH ONLY
					.019							.014		
ML88b	.530		1.240	.100	.015		.050	.170	.175	.600		.007		INDEX NOTCH ONLY
			1.280		.021		TYP					.015		
ML88c	.525		1.24	.090	.018		.020	.180	.145	.585	.625	.008		INDEX NOTCH
	.535		1.25	.110	.022		NOM			.595	.675	.011		
ML88d	.510	.045	1.23	.090	.015		.020	.180	.145	.590	.700	.008		INDEX NOTCH
	.540	.065	1.29	.110	.023		.060	MAX	MIN	.620	NOM	.011		
ML88e	.500		1.22	.090	.015		.020	.180	.145	.590	.650	.008		INDEX DOT
	.545		1.29	.110	.023		MIN	MAX	MIN	.610	NOM	.015		
ML88f	.580		1.190	.090	.015	.030	.030	.080			.590	.008		
	.610		1.230	.110	.021	.065	.070	.120			.620	.012		
ML88g	.515	.045	1.230	.090	.027		.025	.125	.037	.600	.750	.008		INDEX NOTCH
	.575	.065	1.290	.110	.037		.063	.210	.175	TYP	MAX	.011		
ML88h	.530	.040	1.230	.090	.015		.020	.140	.125		.600	.008		INDEX DOT
	.550	.065	1.260	.110	.023		.050	.160	.150		.700	.015		

ML89



	A	B	C	D	E	F	G	H	J	K	M	N	P
ML89	.760	.250	.235	.130	.300	.010	.040	.020	.060	.020	.130	.092	.180
	.765											.108	MAX
ML89a	.745	.245		.115	.290	.010	.015	.020	.044	.015	.120	.090	.130
	.755	.252		.125	.310	.015	.035	.030	.054	.021	.135	.110	.160
ML89b	.750	.235		.180	.325	.008	.020			.015	.125	.090	.200
	.880	.275			MAX	.015				.023	MIN	.110	MAX
ML89c	.787	.252			.300		.020	.043			.141	.100	.181
	MAX	MAX			MIN						MAX		MAX
ML89d	.745	.245	.290		.325	.009	.020			.018	.125	.090	.200
	.755	.255	.310		.375	.011	MIN			.022	MIN	.110	MAX
ML89e	.850		.250	.130	.300	.010	.100			.060	.018	.130	.165
							TYP			TYP	MAX		
ML89f	.748	.251			.307	.008	.020	.039	.047	.047	.017	.129	.092
	TYP				.387	.013	.040	.047			.055	.021	.153
ML89g	.760	.248			.300	.008	.019		.051	.014	.110	.100	.200
						.014	MIN			.022	MIN		
ML89h	.760	.267			.300	.008	.019		.051	.014	.110	.100	.200
						.014	MIN			.022	MIN		
ML89j	.767				.300	.009	.020	.029	.047		.015	.120	.185
	MAX						MIN	MAX	.020	.153			MAX

ML92

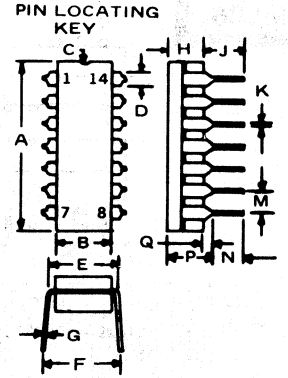


23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

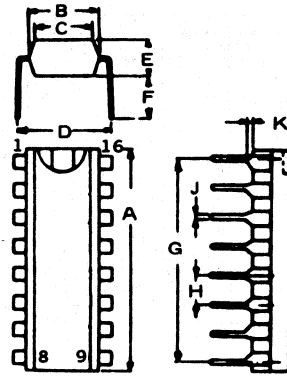
ML93

	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
ML93	.750	.245	.025	.057	.290	.350	.009	.160	.180	.015	.090	.140	.200	.020
ML93a	.755	.275		.065	.310	.400	.012	MAX	MAX	.018	.110	MAX	MAX	.055
	.765	.250		.060						.020	.092			.040
	MAX									.106				
ML93b	.755	.280		.070	.290	.335	.008	.145	.145	.015	.090	.125	.165	.020
ML93c	.785	MAX		MAX	.315	.395	.014	.175	.205	.023	.110	.165	.215	.040
	.765			.060	.300		.008			.015	.100	.125	.175	.025
							.012			.021				
ML93d	.785	.280	.025	.055	.290	.360	.008			.016	.090	.125	.200	.020
ML93e	.799	MAX		.065	.320	.410	.012			.022	.110	MIN	MAX	.070
ML93f	.799	.299						.180	.149	.016	.100	.130	.200	.019
ML93g	.783	MAX						MAX	.170	.020		.151	MAX	
ML93h	.783	.251	.039	.059	.299		.009	.180	.120	.018	.100	.100	.199	.020
ML93i	.745	.240		.035	.300	.300	.008			.014	.100	.125	.120	.020
ML93j	.770	.260		.065	TYP	.325	.012			.020	TYP	.150	.160	.065
	.715	.240		.040	.300	.300	.008			.014	TYP	.115	.155	.020
	.770	.260		.065	TYP	.325	.012			.020	TYP	.150	.200	.050
ML93j	.800			.059	.324	.300	.009			.015	.100	.126	.208	.015
	MAX				MAX	.393				.023		.165	MAX	MIN

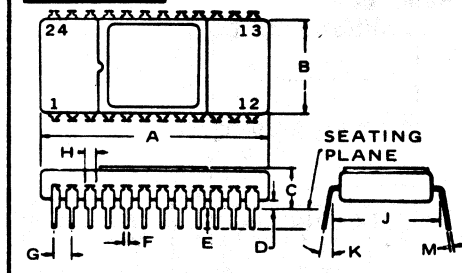


ML94

	A	B	C	D	E	F	G	H	J	K
ML94	.787	.255	.210	.330	.129	.160	.700	.090	.017	.030
ML94a	MAX	MAX						.110		
	.755	.244			.179	.120		.090	.007	.019
								.110	.014	
ML94b	.854	.255	.299	.177	.137	.090	.015	.019		
ML94c	.740	.262	.330	.126	.125	.100	.018	.025		
	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX		
ML94d	.870	.240	.290	.180	.140	.700	.100	.015	.020	
	MAX	.260	.310	MAX	MIN	TP	TP	.021	MIN	

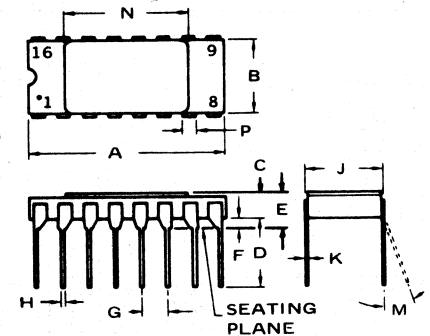


ML95



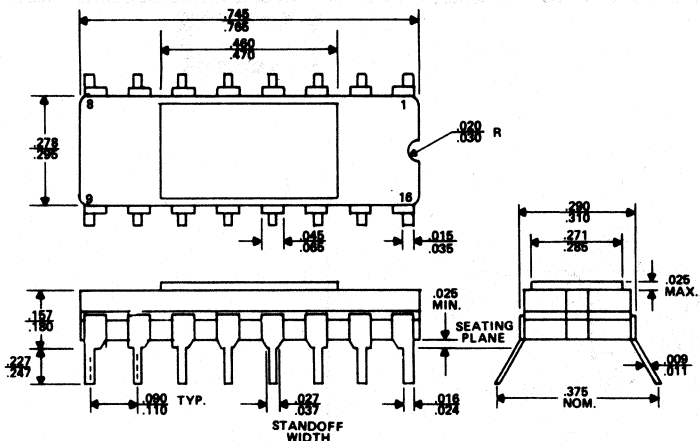
	A	B	C	D	E	F	G	H	J	K	M
ML95	1.10	.500	.120	.020	.115	.015	.100	.040	.590	10°	.008
ML95a	1.29	.545	.180	.050	.165	.020		.060	.610	MAX	.011
	1.14	.500	.120	.020	.115	.015	.100	.040	.590	10°	.011
	1.29	.550	.180	.050	.165	.020		.060	.610	MAX	.012

ML98

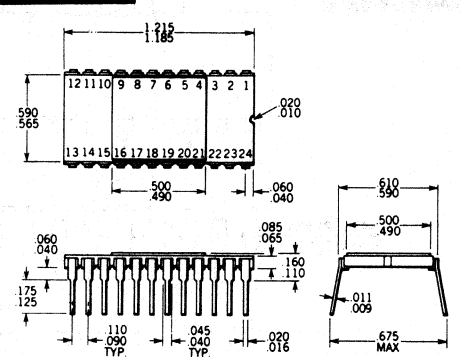


	A	B	C	D	E	F	G	H	J	K	M	N	P
ML98	.740	.278	.086	.185	.020	.100	.017	.300	.008	10°	.470	.045	
ML98a	.757	.288	.144	.200	.045		.023		.012	MAX		.060	
	.745	.278	.100	.120	.020	.100	.017	.300	.008	10°	.470	.045	
	.808	.310		.245	.045		.023		.012	MAX		.060	
ML98b	.740	.240	.140	.105	.025	.100	.016	.300	.008	10°		.045	
	.767		.190	.155	.045		.020		.012			.055	

ML102



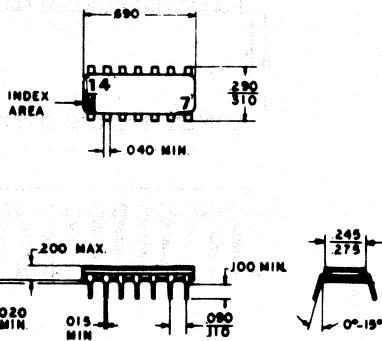
ML103



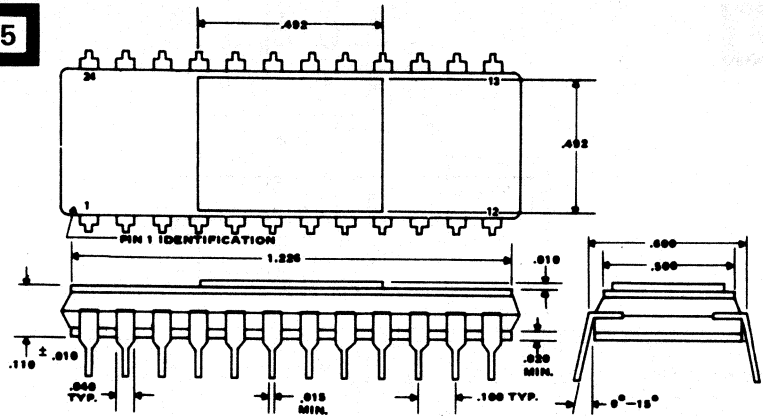
23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

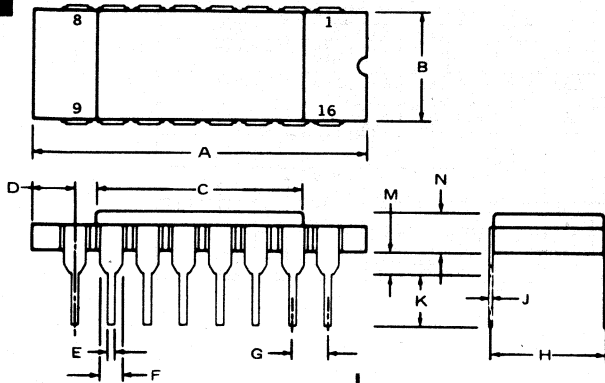
ML104



ML105

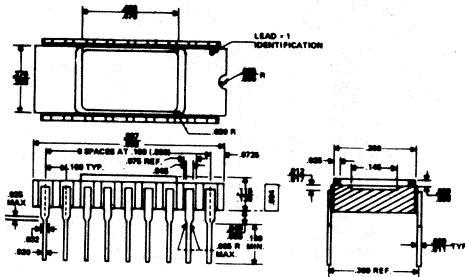


ML107

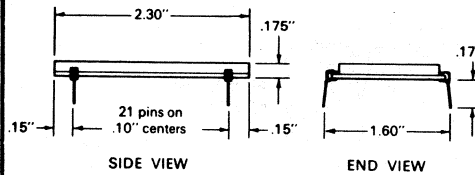


	A	B	C	D	E	F	G	H	J	K	M	N
ML107	.740	.280	.420	.020	.015	.045	.090	.320	.008	.100	.030	.080
ML107a	.830	.310	.470	.065	.021	.060	.110	.320	.012	.140	.060	.130

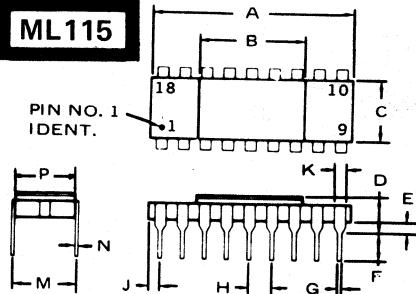
ML112



ML113



ML115

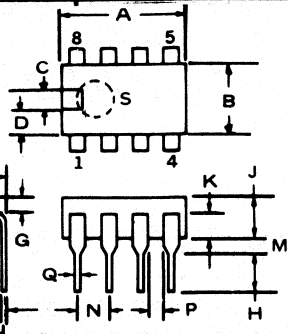


	A	B	C	D	E	F	G	H	J	K	M	N	P
ML115	.915	.310	.140	.020	.125	.018	.100	.050	.050	.300	.008	.282	
ML115a	.910	.490	.295	.165	.020	.125	.015	.090	.040	.054	.300	.008	
ML115b	.900	.460	.284	.155	.035	.135	.016	.100	.050		.300	.008	.320
ML115c	.880	.275	.200	.015	.100	.014	.090		.040	.040	.280	.008	
ML115d	.890	.275	.200	.020	.100	.016	.090	.045	.043		.280	.008	.290
ML115e	.870	.400	.280	.080	.020	.125	.015	.090		.040	.290	.008	.310

23. OUTLINE DRAWINGS

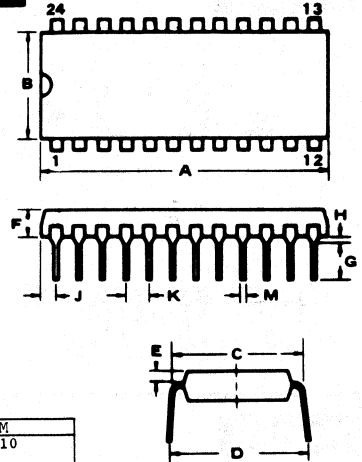
IN DRAWING NUMBER SEQUENCE

ML116

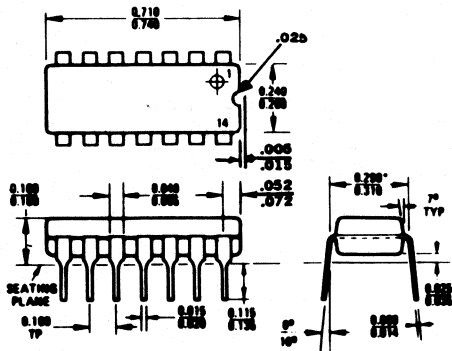


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S
ML116	.400 MAX	.245 MAX	.080	.065	.300 MAX	.300 MAX	.075 MAX	.125 MIN	.128 MAX	.065 MAX	.020	.100	.040	.016 MAX	.001 MAX	NA
ML118a	.380 MAX	.245 MAX	.085	.065	.290 MAX	.290 MAX	.025	.100 MIN	.125 MAX	.065 MAX	.020	.090 MIN		.015 MAX	.003 MAX	NA
ML118b	.400 MAX	.245 MAX	.075	.075	.300 MAX	.310 MAX	.030	.125 MIN	.125 MIN	.065 MAX	.020 MIN	.100		.015 MAX	.018 MAX	.093 DIA

ML118

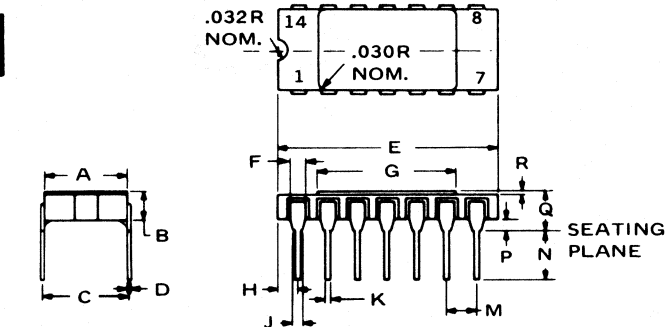


ML124



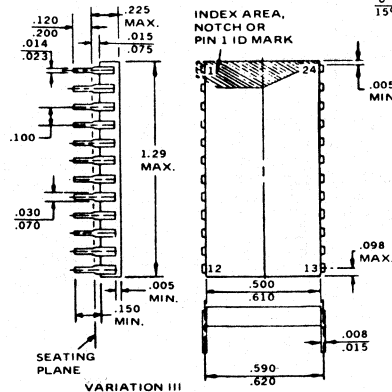
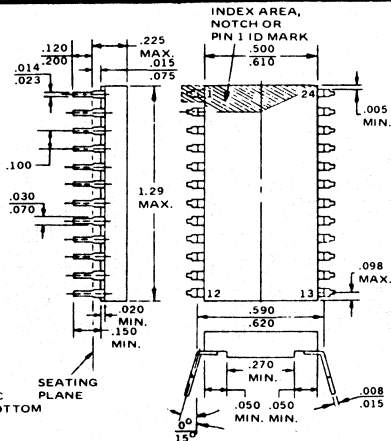
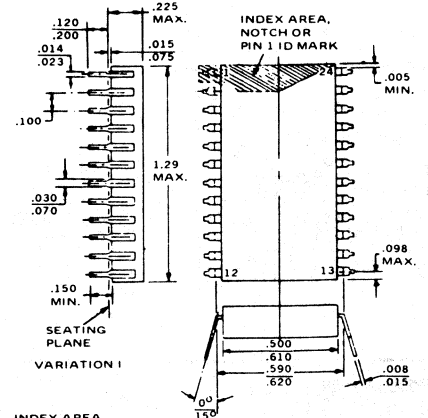
	A	B	C	D	E	F	G	H	J	K	M
ML118	1.25	.540 MAX	.610	.624 MAX	.075	.160	.125 MIN	.030 MIN	.075	.100	.010
ML118a	1.22		.600	.600 MAX	.055 MAX	.125 MAX	.137 MAX	.035 MAX	.068 MAX	.100	.014 MAX
ML118b	1.25 MAX		.600	.625 MAX	.062 MAX	.200	.150 MIN	.047 MIN	.086 MAX	.100	.010 MAX
ML118c	1.22 MAX		.543 MAX	.600 MAX	.055 MAX	.125 MAX	.137 MAX	.035 MAX	.066 MAX	.100	.001 MAX
ML118d	1.20 MAX	.500 MAX	.600	.600 MAX	.062 MAX	.170 MAX	.100 MAX	.020 MAX	.090 MAX	.100	.015 MAX
ML118e	1.31 MAX	.550 MAX	.550	.730 MAX		.200	.150 MAX	.050 MAX	.110 MAX	.100	.023 MAX
ML118f	1.23 MAX	.530 MAX	.590 MAX		.090		.145 MAX	.020 MIN	.070 REF	.100 TYP	.016 MAX
ML118g	1.307 MAX	.541 MAX	.610 MAX	.606 MAX		.181 MAX	.125 MIN	.019 MIN	.094 MAX	.099 MAX	.018x.011
ML118h	1.259 MAX	.499 MAX	.599 MAX	.599 MAX		.157 MAX	.110 MIN	.031 MIN		.100 TYP	.017 MAX
ML118i	1.245 MAX	.540 NOM	.600 NOM	.625 NOM		.145 MAX	.125 MIN	.020 MIN		.100 TYP	.016 MAX
ML118j	1.255 MAX					.155 MAX	.135 MIN			.020 TYP	

ML125



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
ML125	.275 MAX	.110 MAX	.285 MAX	.008 MAX	.738 MAX	.060 MAX	.478 NOM	.064 MAX	.030 MIN	.015 MIN	.100 T.P.	.150 MIN	.025 MIN	.180 MAX	.012 NOM
ML125a	.294 MAX	.133 MAX	.299 MAX	.009 MAX	.757 MAX	.049 MAX		.084 MAX	.018 MAX	.100 MAX		.133 MIN	.020 MIN	.153 MAX	
ML125b	.310 MAX		.300 NOM	.008 NOM	.680 NOM	.012 NOM				.014 NOM	.100 TYP			.125 MAX	

ML126

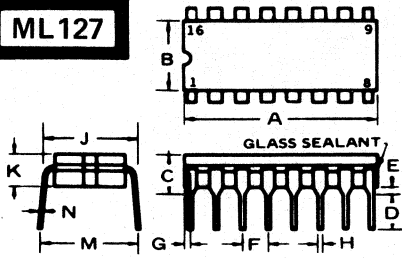


IF IT IS USED, NO ORGANIC OR POLYMERIC MATERIALS SHALL BE MOLDED TO THE BOTTOM OF THE PACKAGE TO COVER THE LEADS.

23. OUTLINE DRAWINGS

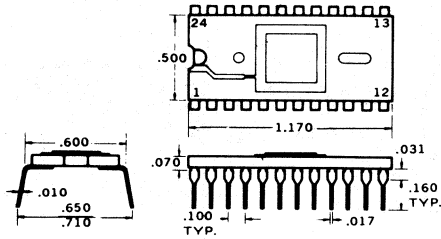
IN DRAWING NUMBER
SEQUENCE

ML127

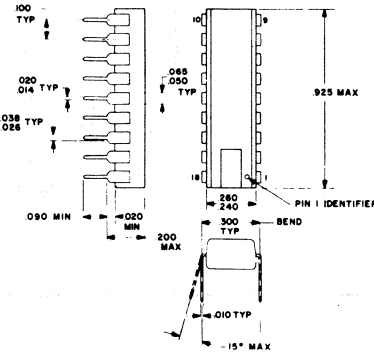


	A	B	C	D	E	F	G	H	J	K	M	N
ML127	.785 MAX	.280 MAX	.175	.130 MIN	.020	.090 MIN	.050 MAX	.015 MAX	.310 MAX	.160 MAX	.300 MAX	.008 MAX
ML127a		.290 MAX	.220 MAX	.100 MAX	.020 MAX	.090 MAX	.015 MAX	.015 MAX			.290 MAX	.008 MAX
ML127b	.750 MAX	.245 MAX	.160 MAX	.125 MAX	.020 MAX	.100 MAX	.020 MAX	.015 MAX	.290 MAX			.008 MAX
ML127c	.787		.220 MAX			.100	.017			.290 MAX	.410	.009
ML127d	.760					.100	.017			.110	.300	.009
ML127e	.755 MAX	.265 MAX	.170 MAX	.100 MIN	.020 MIN	.090 MIN	.015 MAX	.016 MAX			.375	.009 MAX
ML127f	.785 MAX	.280 MAX	.270 MAX	.125 MAX	.020 MAX	.090 MAX	.050 MAX	.016 MAX	.290 MAX	.160 MAX	.360 MAX	.008 MAX
ML127j	.750 MAX	.245 MAX	.200 MAX	.125 MIN	.020 MAX	.090 MAX	.015 MAX	.016 MAX	.325 MAX	.180 MAX	.400 MAX	.009 MAX
ML127k	.750 MAX	.265 MAX	.200 MAX	.125 MIN	.080 MIN	.090 MIN	.010 MIN		.290 MAX		.380 MAX	.009 MAX
ML127m	.755 MAX	.280 MAX	.105 MAX	.125 MAX	.020 MAX	.090 MAX	.015 MAX	.015 MAX	.290 MAX		.325 MAX	.200 MAX
ML127r	.755 MAX	.310 MAX	.165 MAX	.125 MAX	.020 MAX	.090 MAX	.015 MAX	.015 MAX	.290 MAX	.145 MAX		.008 MAX
ML127s	.785 MAX	.245 MAX	.200 MAX	.100 MAX	.015 MAX	.090 MAX	.015 MAX	.016 MAX	.290 MAX		.375 MAX	.009 MAX
ML127t	.745 MAX	.240 MAX	.155 MAX	.100 MAX	.020 MAX	.100 MAX	.015 MAX	.014 MAX	.300 MAX			.008 MAX
ML127u	.745 MAX	.240 MAX	.155 MAX	.115 MAX	.020 MAX	.100 MAX	.015 MAX	.014 MAX	.300 MAX			.008 MAX
ML127x	.800 MAX		.208 MAX	.126 MAX	.015 MIN	.100	.050 MAX	.015 MAX	.325 MAX		.300 MAX	.009 MAX

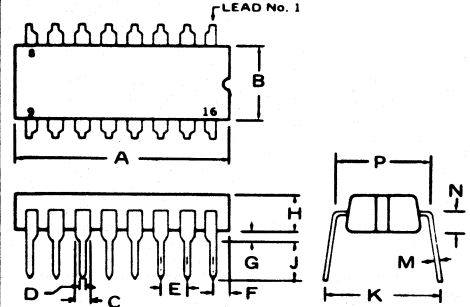
ML128



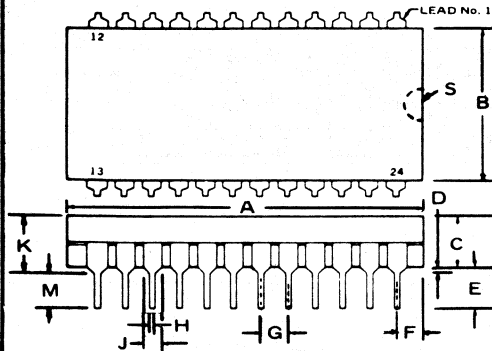
ML131



ML132



ML133



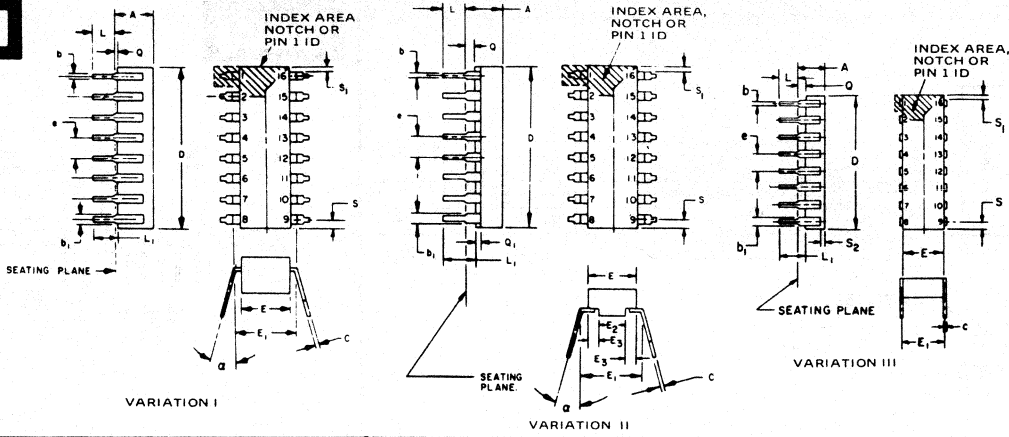
	A	B	C	D	E	F	G	H	J	K	M	N	P
ML132	.745 MAX	.245 MAX	.044 MAX	.015 MAX	.090 MAX	.020 MAX	.015 MAX	.115 MAX	.120 MAX	.325 MAX	.010 MAX	.057 MAX	.290 MAX
ML132a	.750 MAX	.235 MAX	.030 MAX	.015 MAX	.090 MAX	.020 MAX	.035 MAX	.125 MAX	.135 MAX	.375 MAX	.015 MAX	.068 MAX	.310 MAX
ML132b	.748	.251	.045	.019	.100		.019 MIN	.181 MAX	.110	.300	.010		

	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S
ML133	1.235 MAX	.560 MAX	.200 MAX	.020 MIN	.125 MAX	.060 MAX	.090 MAX	.015 MAX	.076 MAX			.600 MAX	.008 MAX	.590 MAX	.100	NA
ML133a	1.290 MAX	.515 MAX		.020 MAX	.080 MAX	.100	.110	.020	.060	MAX	MIN	.710	.012	.620	MAX	RAD
ML133d	1.33 MAX	.531		.019 MIN			.100	.059	.199	.100		.009	.598			
ML133e	1.260 MAX	.600		.020 MIN	.080 MAX	.100	.100	.018	.060 TYP	.200 MAX	.120 MAX	.625 MIN	.010 TYP			NA
ML133g	1.235 MAX	.515 MAX	.140 MAX	.025 MAX			.090 MAX	.016 MAX	.045 MAX		.100 MAX	.750 MAX	.009 MAX	.600 NOM		.020 MAX
ML133h	1.200 MAX	.380 NOM	.140 MAX	.020 MIN			.090 MAX	.016 MAX	.045 MAX		.115 MAX	.500 MAX	.009 MAX	.400		.035 MAX

23. OUTLINE DRAWINGS

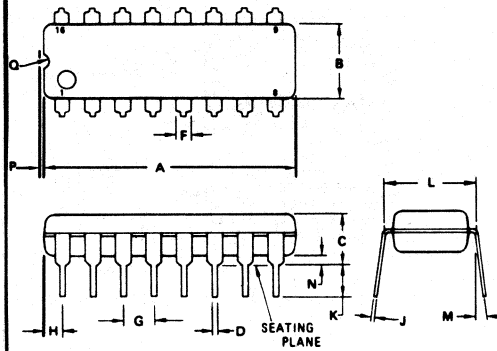
IN DRAWING NUMBER SEQUENCE

ML143



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A		.200		5.08
b	.014	.023	.36	.58
b ₁	.030	.070	.76	1.78
c	.008	.015	.20	.38
D		.840		21.34
E	.220	.310	5.59	7.87
E ₁	.290	.320	7.37	8.13
E ₂	.100		2.54	
E ₃	.050		1.27	
e	.100 BSC		2.54 BSC	
L	.125	.200	3.18	5.08
L ₁	.150		3.81	
Q	.015	.060	.38	1.52
Q ₁	.020		.51	
S		.080		2.03
S ₁	.006		.13	
S ₂	.006		.13	
σ	0°	15°	0°	15°

ML145

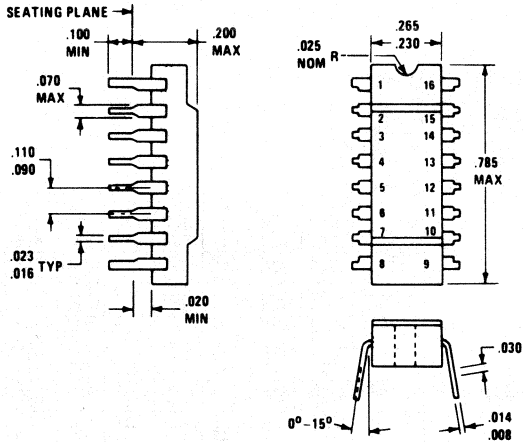


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	20.70	21.34	0.815	0.840
B	6.10	6.60	0.240	0.260
C	4.06	4.57	0.160	0.180
D	0.38	0.51	0.015	0.020
F	1.02	1.52	0.040	0.060
G	2.54 BSC		0.100 BSC	
H	1.32	1.83	0.052	0.072
J	0.20	0.30	0.008	0.012
K	2.92	3.43	0.115	0.135
L	7.37	7.87	0.290	0.310
M	- 10°		- 10°	
N	0.51	1.02	0.020	0.040
P	0.13	0.38	0.005	0.015
Q	0.51	0.76	0.020	0.030

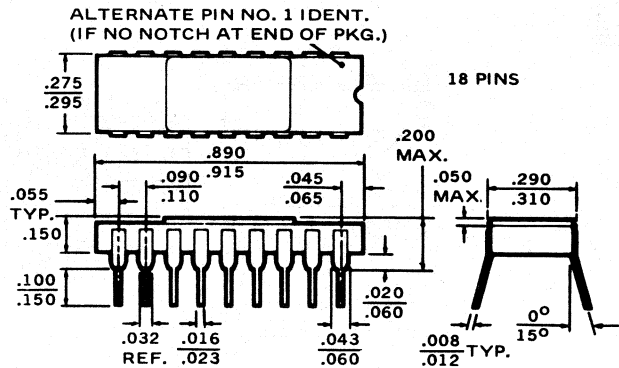
NOTES:

- LEADS WITHIN 0.13 mm (0.005) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION.
- DIMENSION "L" TO CENTER OF LEADS WHEN FORMED PARALLEL

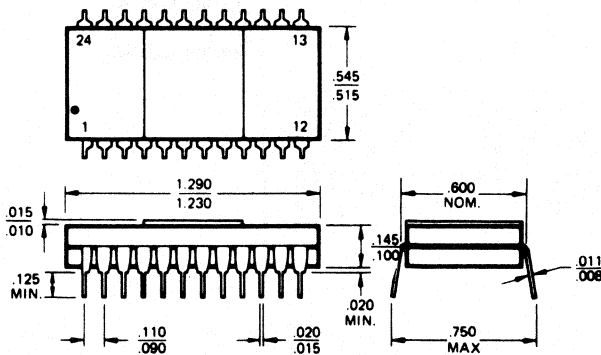
ML146



ML147



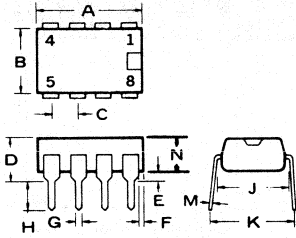
ML148



23. OUTLINE DRAWINGS

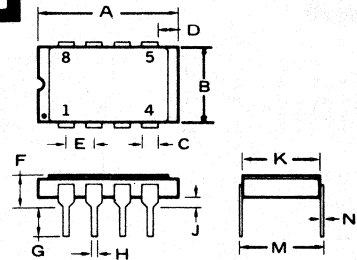
IN DRAWING NUMBER SEQUENCE

ML163



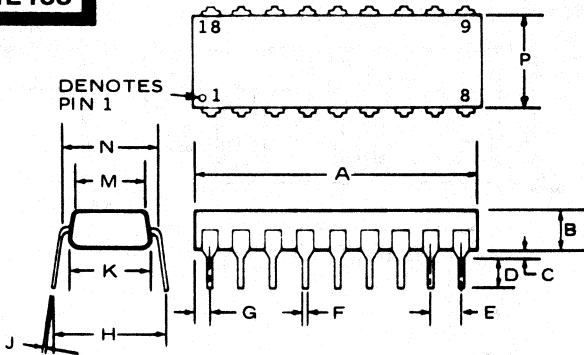
	A	B	C	D	E	F	G	H	J	K	M	N
ML163	.375 .385	.245 .255	.090 MAX	.200 TYP	.020 MIN	.010 .022	.120 MIN	.290 .310	.325 .375	.009 .011		
ML163a	.370 .390	.248 .252		.148 MIN	.020		.125 MIN	.305 .315	.300 .350	.009 .011	.128 .138	
ML163b	.365 .375	.245 .252			.020 .030		.015 .021	.120 .135	.290 .310	.300 .395	.010 .015	.115 .125

ML164



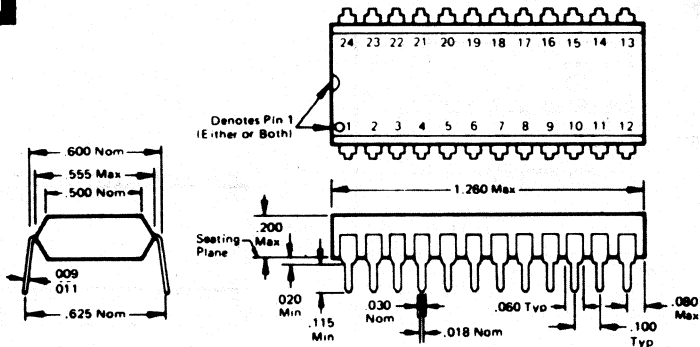
	A	B	C	D	E	F	G	H	J	K	M	N
ML164	.530 MAX	.040 MAX	.010 MIN	.090 TYP	.105 TYP	.125 TYP	.017 TYP	.020 TYP	.250 TYP	.290 TYP	.008 TYP	
ML164a	.535 MAX	.320 MAX		.095 MAX	.194 TYP	.130 TYP		.015 MIN	.300 TYP	.284 TYP	.400	

ML165

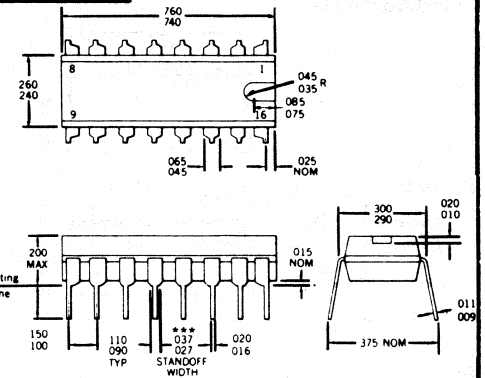


	A	B	C	D	E	F	G	H	J	K	M	N	P
ML165	.920 MAX	.180 MAX	.020 MIN	.120 TYP	.100 TYP	.018 TYP	.050 TYP	.350 TYP	.009 TYP	.250 TYP	.220 TYP	.300 TYP	
ML165a	.915 .925	.115 .125	.015 .035	.100 .105	.090 .110	.015 .020	.060 .070	.325 .375	.010 .015			.290 .310	
ML165b	.865 MAX		TYP	.040 TYP	.130 TYP	.092 .108	.020 TYP	.010 TYP		.235	.300 TYP	.250	
ML165c	.897 TYP		.019 MIN	.100 MIN	.100 TYP	.018						.300 TYP	
ML165d	.900	.140	.030	.110	.100 TYP	.020 TYP					.290	.250	
ML165e	.866 MAX	.180 MIN	.020 MIN	.100 MIN	.090 TYP	.015 TYP			.007 .014		.300	.248	
ML165f	.890 .920	.120 .140	.020 .060	.125 .150	.090 .110	.015 .023	.040 .065	.290 .400	.008 .015		.290 .310	.245 .255	
ML165g	.925	.162	.016	.100	.100	.020			.024	.268	.300	.268	

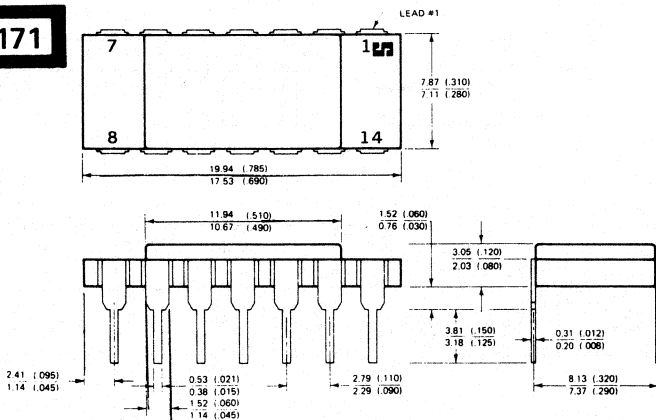
ML168



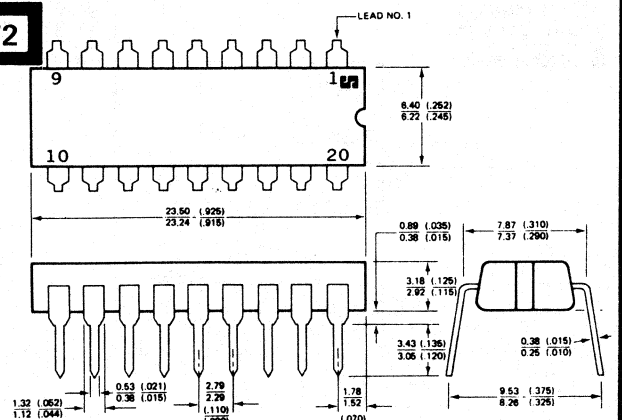
ML170



ML171



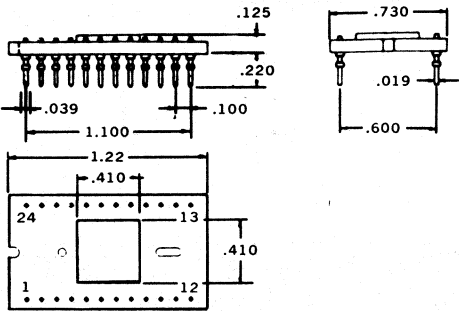
ML172



23. OUTLINE DRAWINGS

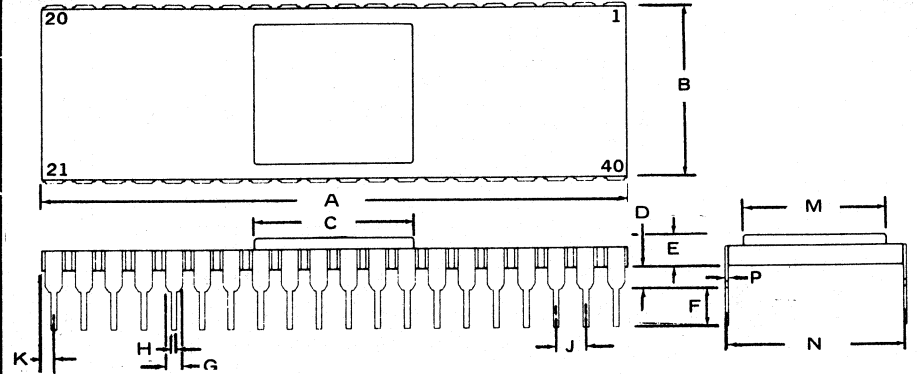
IN DRAWING NUMBER SEQUENCE

ML173

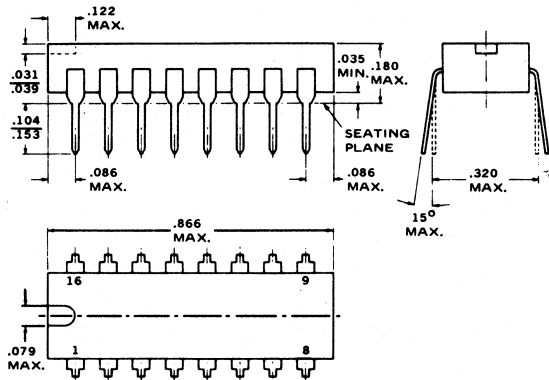


ML174

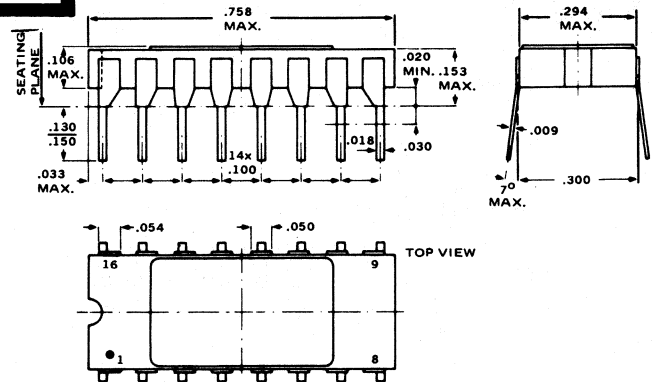
ML174	A	B	C	D	E	F	G	H	J	K	M	N	P
	1.980	.580	.480	.030	.080	.125	.045	.015	.090	.030	.480	.590	.008
	2.030	.610	.510	.070	.120	.150	.060	.021	.110	.065	.510	.620	.012



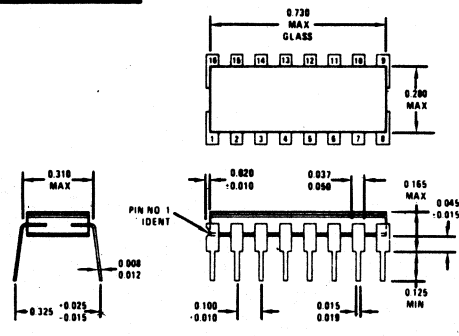
ML175



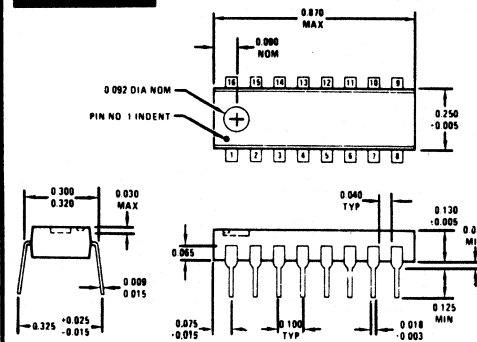
ML176



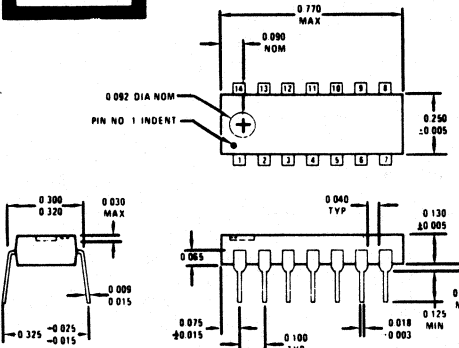
ML177



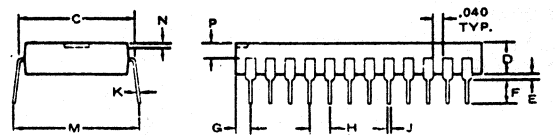
ML178



ML180



ML183



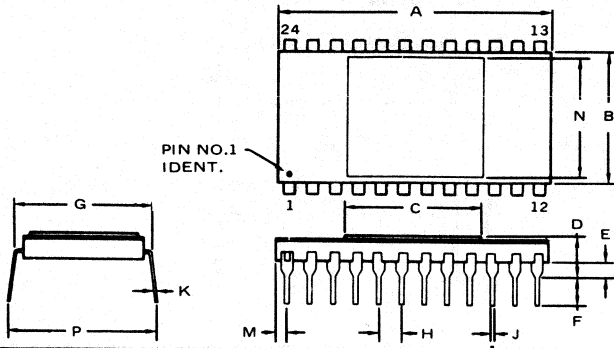
ML183	A	B	C	D	E	F	G	H	J	K	L	M	N	P
	1.270	.540	.600	.155	.015	.125	.060	.100	.009	.009	.062	.610	.030	.075
	MAX	.550	.620	.165	MIN	MIN	.090	TYP	.018	.015	RAD	.650	MAX	
ML183a	1.290	.515	.590	.160	.020	.125	.060	.090	.002	.008	.025	.660		
	MAX	.525	.620	MAX	MIN	MIN	.100	.110	.018	.012	RAD	.710		
ML183b	1.230	.530	.625	.150	.015	.100		.090	.014	.008		.630		
	MAX	.550		.160	MIN	.165		.110	.023	.015		.700		
ML183c	1.290	.500	.590		.015	.120	.098	.100	.014	.008				
	MAX	.610	.620		.075	.200	MAX		.023	.015				

23. OUTLINE DRAWINGS

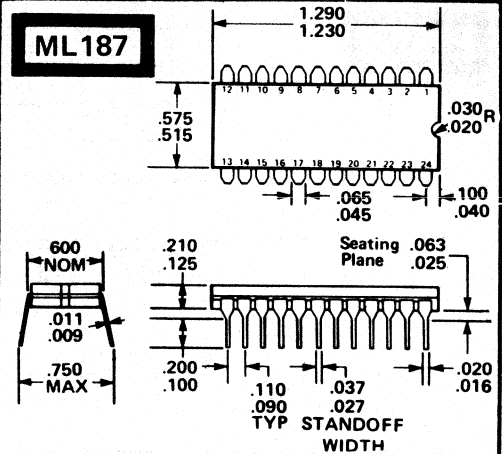
IN DRAWING NUMBER SEQUENCE

ML184

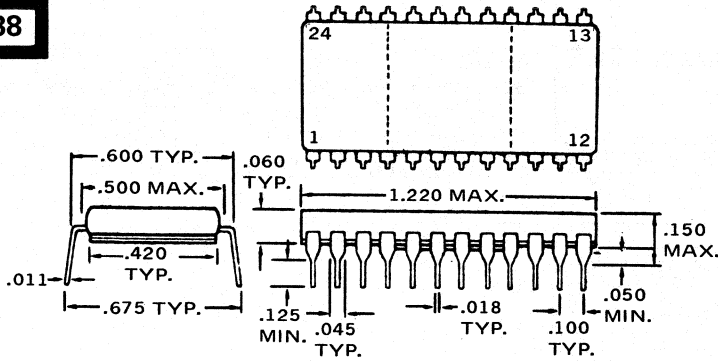
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
ML184a	1.220	.595	.520	.185	.020	.125	.600	.090	.015		.050			
	MAX	MAX	SQUARE	MAX	MIN	REF		.110	.020		TYP			
ML184b	1.230	.600		.160	.040	.125		.100	.018	.010		.070		.625
	MAX	TYP		MAX	MIN	MIN		TYP	TYP	.012		MAX		TYP



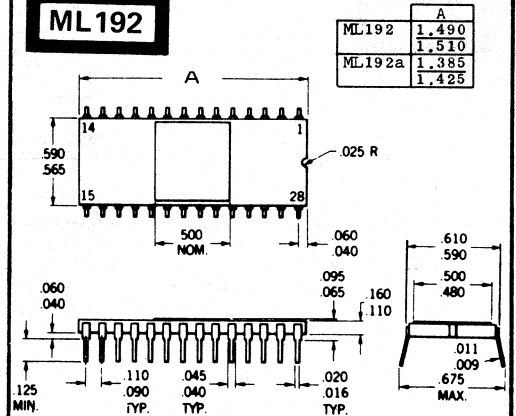
ML187



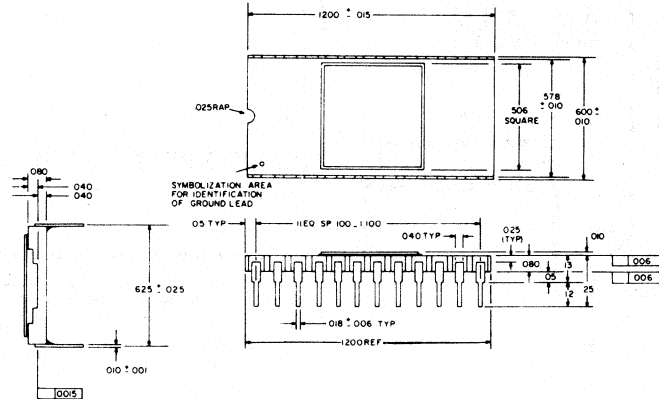
ML188



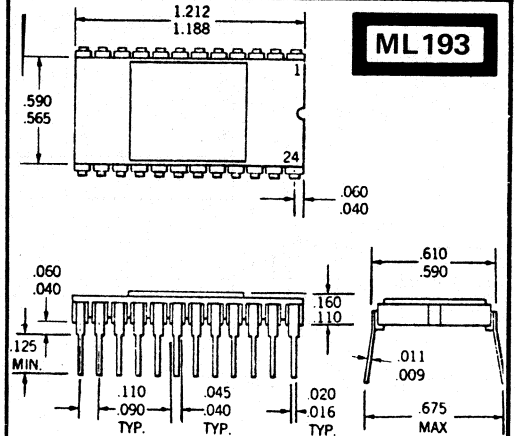
ML192



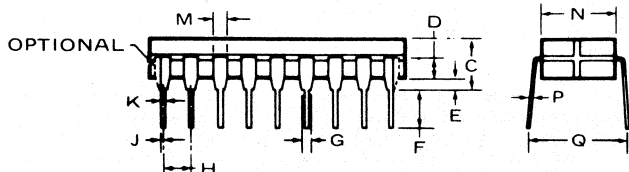
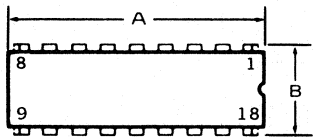
ML191



ML193



ML194

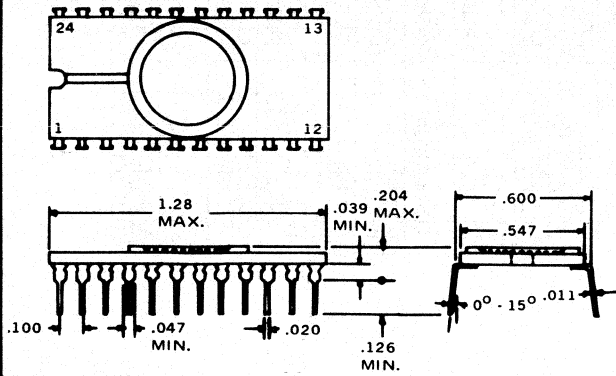


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
ML194	.850	.290	.220	.070	.020	.100	.032	.090	.007	.015	.045	.240	.008	.290
	.930	.325	MAX	.110	.050	.150		.110	.011	.023	.070	.295	.012	.410
ML194a	.913	.299	.200		.019	.098		.099		.017	.047	.263	.009	
	MAX	MAX	MAX		MIN	MIN								
ML194b	.832	.300	.190		.030	.130		.100		.018	.060	.290	.008	
	.928		MAX			TYP		TYP		TYP	TYP	MAX	.012	
ML194c	.880	.290	.190		.015	.100		.090		.016	.055	.265	.008	
	.930	.310	MAX		.035	.165		.110		.020	.065	.291	.012	
ML194d	.880		.170		.020	.100	.027	.090		.016	.045	.265	.009	.375
	.900		.219		MIN	.165	.037	.110		.020	.065	.291	.011	TYP
ML194e	.915	.290	.200		.020	.125		.100		.018	.060		.008	.385
	MAX	MAX	MAX		MIN	.070		TYP		TYP	TYP		.012	TYP
ML194f	.940		.200		.015	.120		.100		.014	.030	.310	.008	.290
	MAX		MAX		MIN	.060				.023	.070	MAX	.015	.320

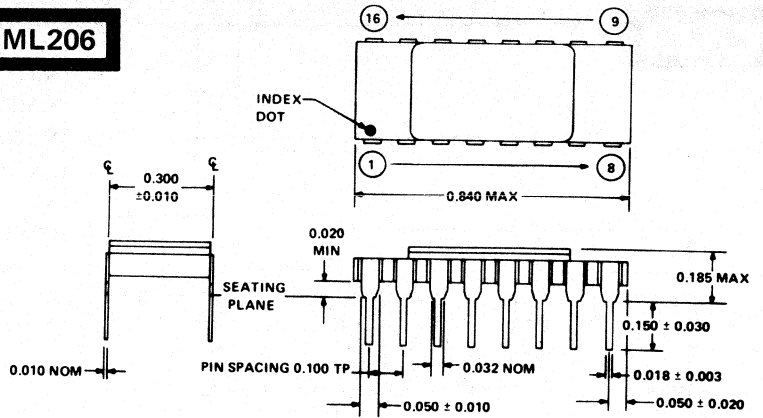
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

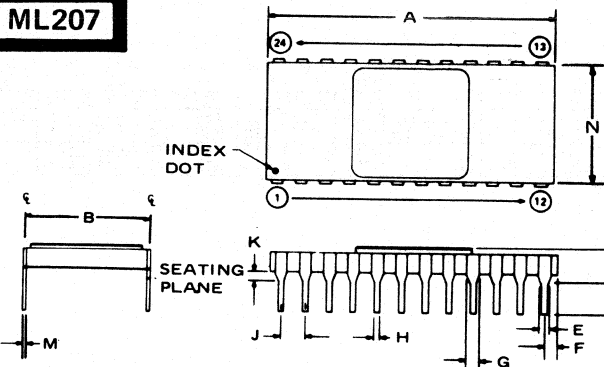
ML205



ML206

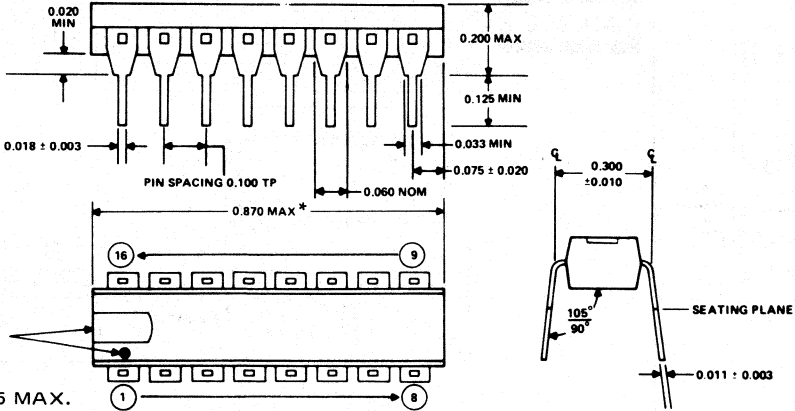


ML207



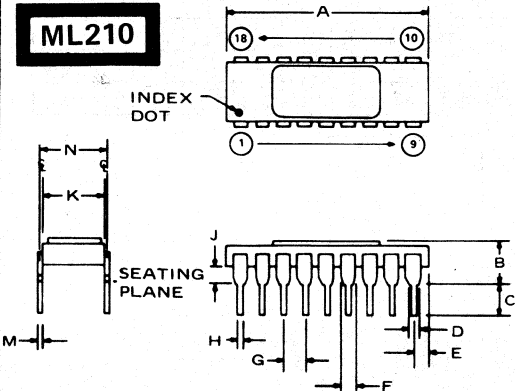
	A	B	C	D	E	F	G	H	J	K	M	N	REMARKS
ML207	1.290 MAX	.590 .610	.185 MAX	.120 .180	.032 NOM	.030 .070	.040 .060	.015 .021	.100 TYP	.020 .040	.010 NOM		DOT
ML207a	1.185 1.216	.600 MAX	.196 MAX	.118 .141			.038 .044	.015 .023	.090 TYP	.040 .059	.008 .012		DOT
ML207b	1.180 1.220	.585 .605	.120 .165	.100 .165		.030 .070		.015 .021	.100 TYP	.020 .060	.008 .012		DOT
ML207c	1.150 1.215	.600 .600	.080	.125 .175	.043 .053			.014 .020	.095 TYP	.020 .080	.008 .012		DOT
ML207d	1.290 MAX	.600		.125 MIN			.040 .060	.016 TYP	.090 TYP	.020 .110	.060 .012		DOT
ML207e	1.186 1.214	.590 .610	.200 MAX	.120 .140			.035 .055	.038 .044	.015 .023	.090 TYP	.040 .060	.008 .012	.578 .598
ML207f	1.212 MAX	.160 MAX	.125 MIN				.050 TYP	.040 TYP	.020 TYP	.100 TYP	.040 .009		NOTCH
ML207g	1.178	.600	.199 MAX	.100 MIN				.050 .022	.014 .108	.090 .019	.007 .011	.586	NOTCH AND CONN
ML207h	1.178	.600	.199 MAX	.100 MIN				.050 .022	.014 .108	.090 .019	.007 .011	.586	NOTCH AND CONN
ML207j	1.188 1.212	.600	.132 .178	.160 TYP	.040 TYP			.016 .020	.098 .102	.040 .060			NOTCH AND CONN
ML207k	1.290 MAX	.590 .610	.200 MAX	.125 MIN				.070 MAX	.015 .021	.100 TYP	.020 .014	.008 .014	.595 DOT, TRIANGLE OR NUM
ML207m	1.200	.600		.175	.050			.018	.100		.010		NOTCH

ML209



*ML209a: 0.785 MAX.

ML210

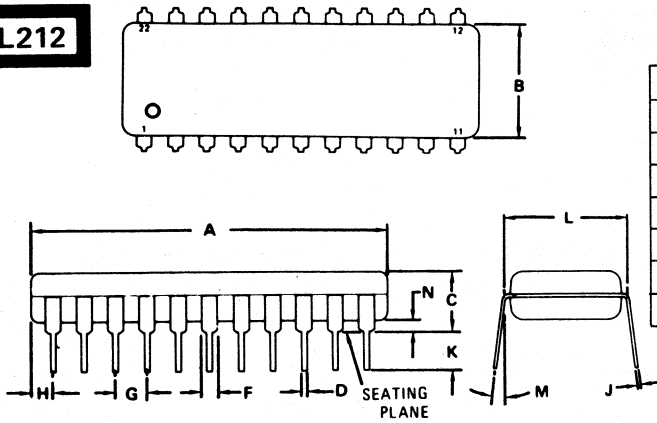


	A	B	C	D	E	F	G	H	J	K	M	N
ML210	.910 MAX	.185 MAX	.120 .180	.032 .070	.030 .070	.040 .060	.100 TYP	.015 .021	.020 MIN	.290 .310	.010	
ML210a	.880 .920	.168 MAX	.125 .160				.090 .110	.016 .045	.025 .045		.008 .012	.300 .320
ML210b	.890 .910	.150 MAX	.090 .130					.015 .021	.025 .045	.278 .298	.008 .012	.300
ML210c	.880 .920	.160 MAX	.130 .170		.045 MAX	.090 TYP		.015 .021	.020 MIN	.050	.008 .014	.290 .310
ML210d	.910 MAX	.200 MAX	.125 MIN				.070 MAX	.100 TYP	.015 .021	.020 MIN	.295 TYP	.008 .014

23. OUTLINE DRAWINGS

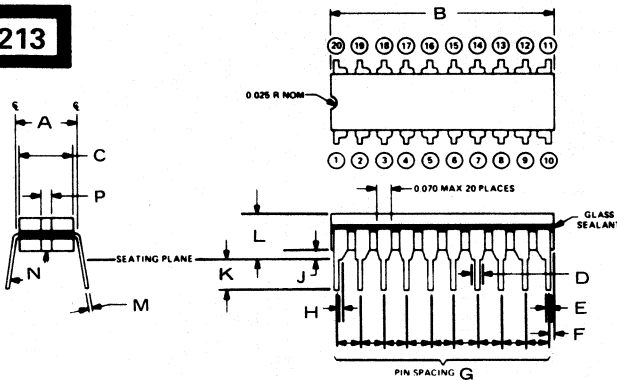
IN DRAWING NUMBER SEQUENCE

ML212



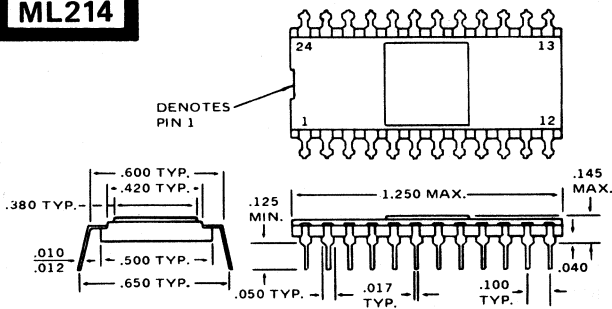
	A	B	C	D	E	F	G	H	J	K	L	M	N
ML212	1.135 1.165	.340 .360	.180 .200	.014 .020	.040 .060	.095 .105	.070 .080	.008 .012	.120 .140	.380 .400	0° 10°	.020 .040	
ML212a	1.000 1.170	.340 .360	.170 .200	.014 .022	.030 .060	.095 .105	.040 .080	.008 .012	.100 .140	.380 .400	0° 15°	.020 .040	
ML212b	1.200 MAX	.400 MAX	.190 MAX							.100 MIN	.400		.035 TYP
ML212c	1.100	.345		.020 TYP	.035 TYP	.100 TYP				.100 MIN	.400		.035 TYP
ML212d	1.066	.346	.200 MAX	.015 .023	.051 .110	.090		.007 .014	.100 MIN	.400	0° 15°	.020 MIN	
ML212e	1.095 1.105	.345 .352	.160 .190	.015 .021	.044 .052	.090 .110	.040 .060	.010 .015	.120 .135	.390 .410		.015 .035	
ML212f	1.100 1.170	.340 .360	.170 .200	.014 .022	.040 .070	.095 .105	.040 .080	.008 .012	.100 .155	.360 .400		.020 .040	
ML212g	1.085 1.115	.340 .360	.155 .173	.014 .022	.050 .070	.100	.040 .060	.008 .015	.115 .135	.400	0° 15°	.020 .040	

ML213



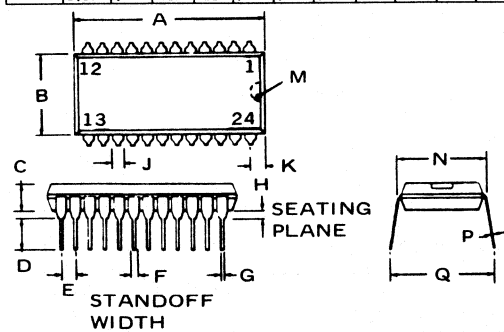
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
ML213	.290 .310	.930 .975	.245 .300	.030 MIN	.015 .023	.015 .050	.100 TYP	.012 MIN	.020 MIN	.130 MIN	.170 MAX	.008 .014	90° 105°	.050
ML213a	.310 MAX	1.070 MAX	.310 MAX	.070 MAX	.015 .021		.100 TY.		.015 MIN	.125 MIN	.200 MAX	.008 .014	90° 105°	

ML214

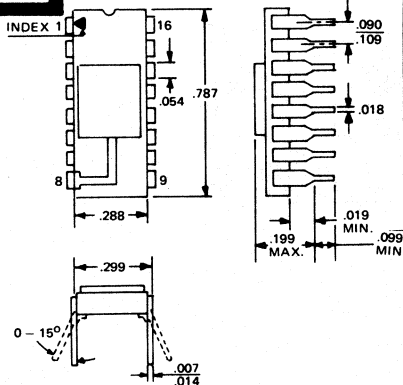


ML216

	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
ML216	1.240 1.260	.540 .560	.145 .165	.115 .135	.090 .110	.027 .037	.016 .020	.020 MIN	.045 .065	.065 .090	.035 .045	.600 NOM	.009 .011	.700 MAX
ML216a	1.193 MAX	.545 MAX	.177 MAX	.113 MIN	.100 TYP			.020 MIN	.050 .062	.045 MAX	N.A.	.800 TYP	.009 .014	.800 MAX
ML216b	1.245 1.255	.545 .560	.160 MAX	.130 TYP	.095 .105	.040 .050	.015 .020	.020 MIN			.030R	.600 TYP		.654

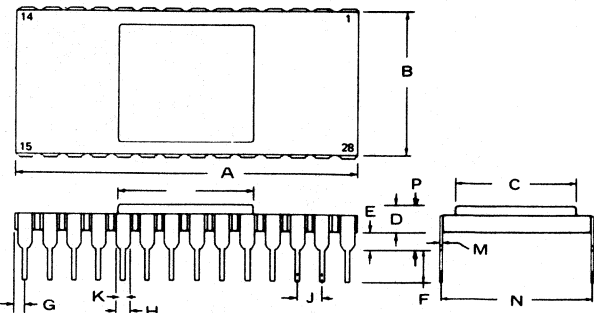


ML217



ML218

	A	B	C	D	E	F	G	H	J	K	M	N	P
ML218	1.380 1.430	.580 .610	.480 .510	.080 .120	.030 .070	.125 .150	.030 .065	.045 .060	.090 .110	.015 .021	.008 .012	.590 .620	
ML218a	1.415 MAX	.590 TYP	.493 TYP		.035 MIN	.125 TYP	.050 TYP	.050 TYP	.100 TYP	.017 TYP	.009 TYP	.600 TYP	.165 MAX
ML218b	1.380 1.430	.580 .610	.510 .530	.080 .120	.030 .070	.125 .175	.030 .065	.045 .060	.090 .111	.015 .021	.008 .012	.580 .644	



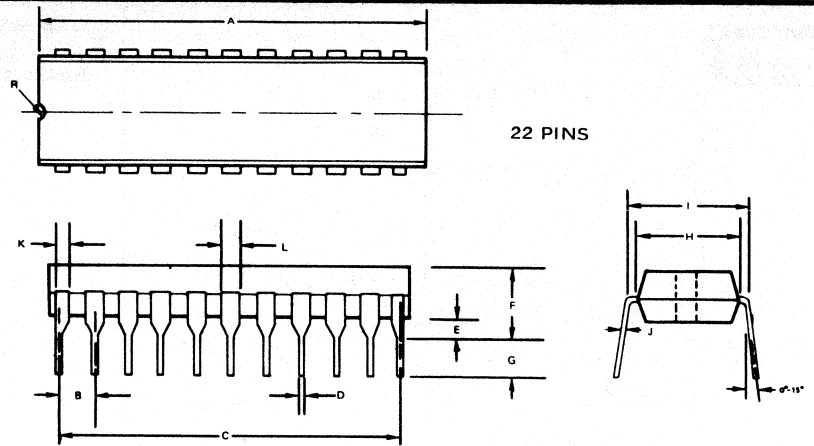
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

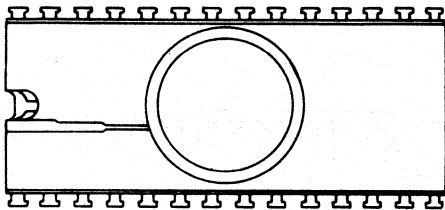
ML237

ITEM	MILLIMETER	INCHES
A	28.0 Max.	1.10 Max.
B	2.54	0.10
C	25.4	1.00
D	0.50	0.02
E	0.5 Min.	0.02 Min.
F	5.2 Max.	0.20 Max.
G	2.54 Min.	0.10 Min.
H	8.5	0.33
I	10.16	0.40
J	0.25 ^{+0.10} -0.05	0.01 ^{+0.004} -0.002
K	1.15	0.045
L	1.40	0.055
R	1.2	0.047

Typical Dimensions Unless Otherwise Specified.

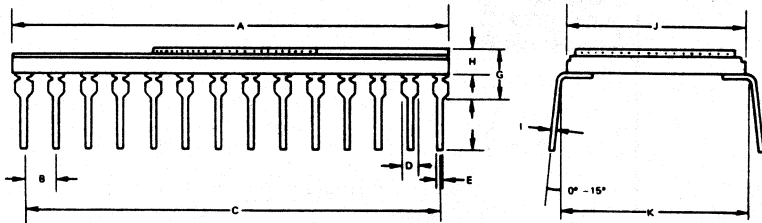


ML238

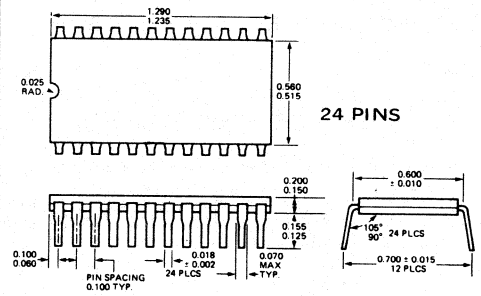


Item	Millimeters	Inches
A	35.0 Max.	1.41 Max.
B	2.54	0.1
C	33.0	1.29
D	1.27	0.05
E	0.50 ± 0.1	0.02 ± 0.004
F	3.2 Min.	0.13 Min.
G	5.2 Max.	0.20 Max.
H	3.3 Max.	0.13 Max.
I	0.30 ± 0.1	0.012 ± 0.004
J	13.9	0.55
K	15.3	0.60

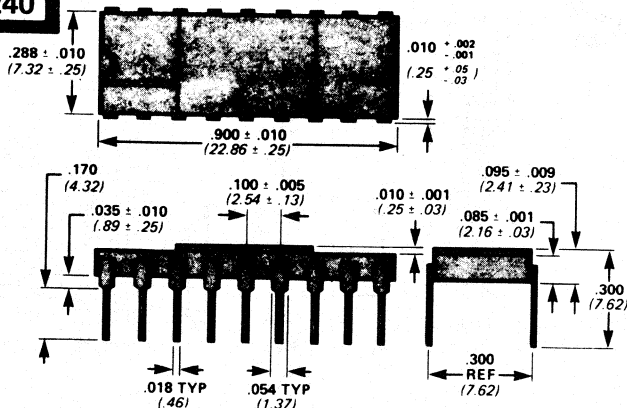
Typical dimensions unless otherwise specified.



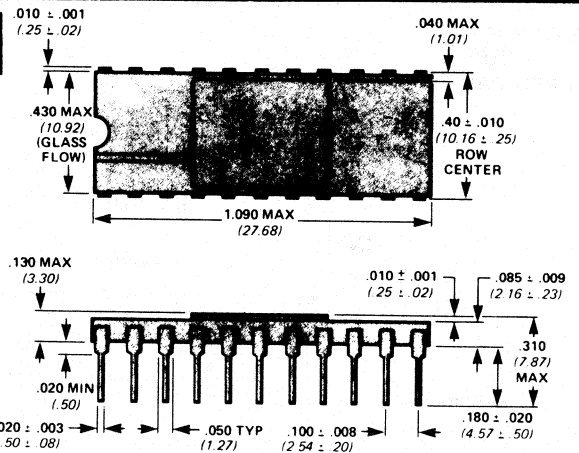
ML239



ML240



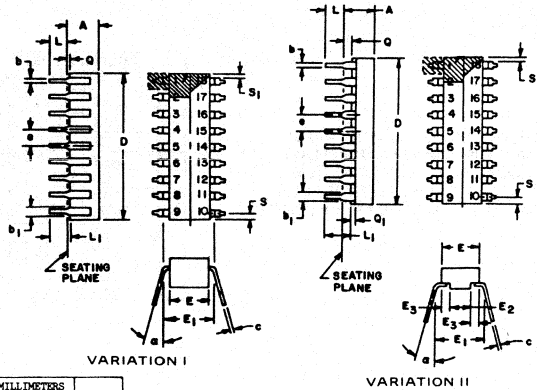
ML241



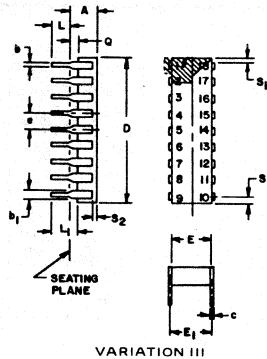
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

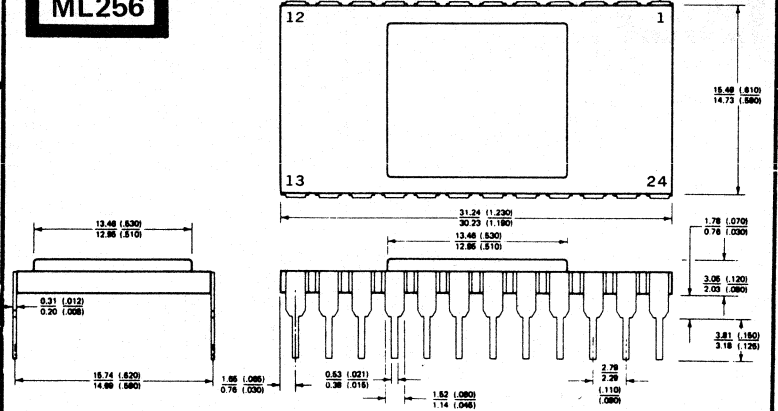
ML255



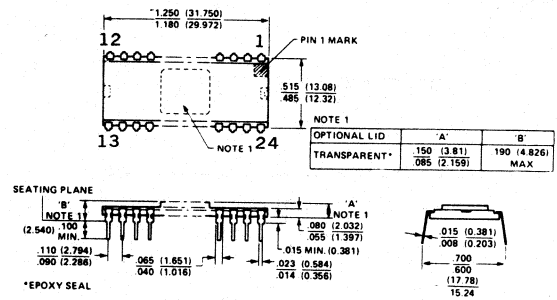
SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A		.200		5.08	
b	.014	.023	.36	.58	8
b ₁	.030	.070	.76	1.78	2,8
c	.008	.015	.20	.38	8
D		.960		24.38	4
E	.220	.310	5.59	7.87	4
E ₁	.290	.320	7.37	8.13	7
E ₂	.100		2.54		
E ₃	.050		1.27		
e	.100	BSC	2.54	BSC	5,9
L	.125	.200	3.18	5.08	
L ₁	.150		3.81		
Q	.015	.060	.38	1.52	3
Q ₁	.020		.51		
S		.098		2.49	6
S ₁	.005		.13		6
S ₂	.005		.13		
a	0°	15°	0°	15°	



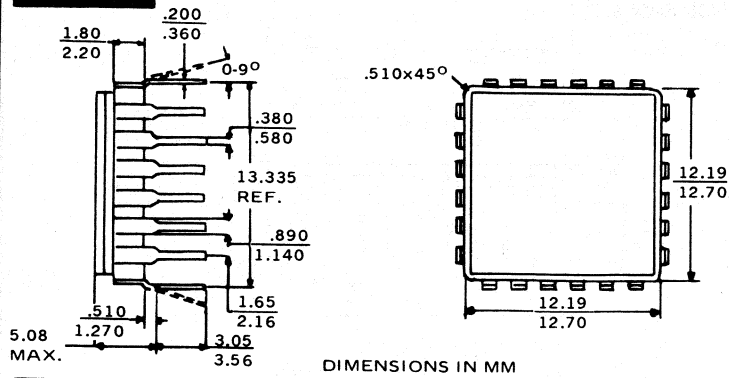
ML256



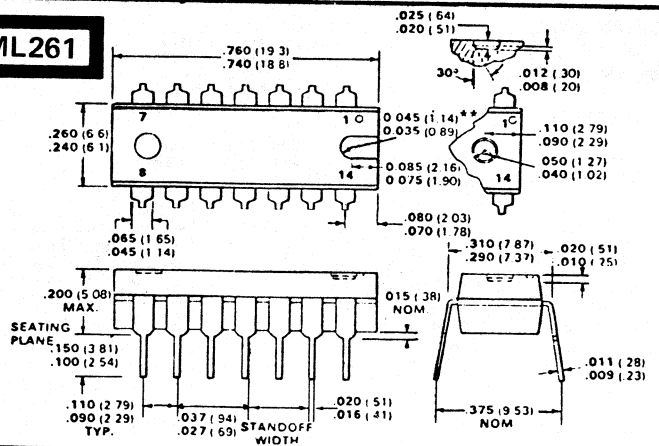
ML258



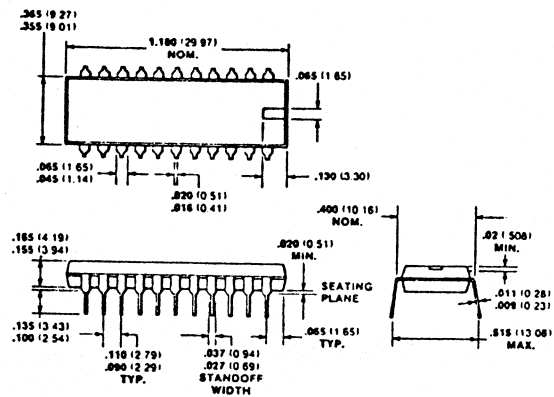
ML259



ML261



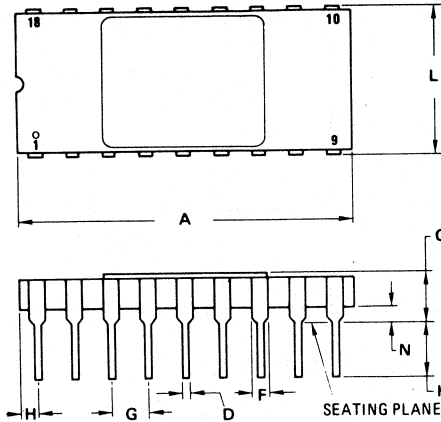
ML262



23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

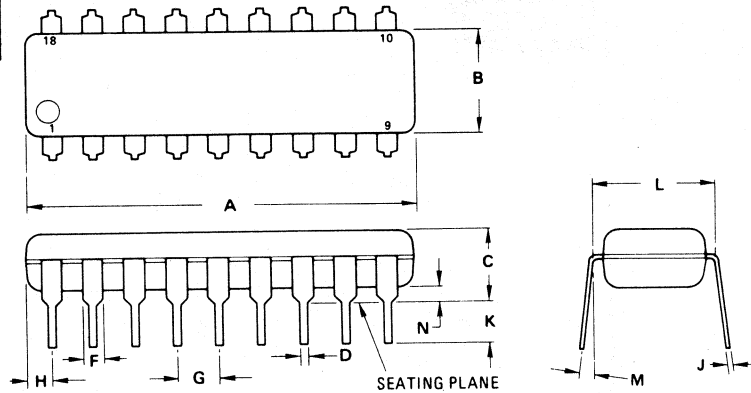
ML264



NOTES:
 1. LEADS WITHIN 0.13 mm (0.005) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION.
 2. NOMINAL DIM FROM CENTER OF LEADS PARALLEL TO DIM "L" IS 7.62 mm (0.300").

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	22.48	23.24	0.885	0.915
C	3.18	4.27	0.125	0.168
D	0.38	0.58	0.015	0.023
F	0.89	1.40	0.035	0.055
G	2.54 BSC		0.100 BSC	
H	1.14	1.40	0.045	0.055
J	0.20	0.30	0.008	0.012
K	2.68	4.44	0.105	0.175
L	7.37	8.23	0.290	0.324
M	-	10°	-	10°
N	0.64	1.52	0.025	0.060

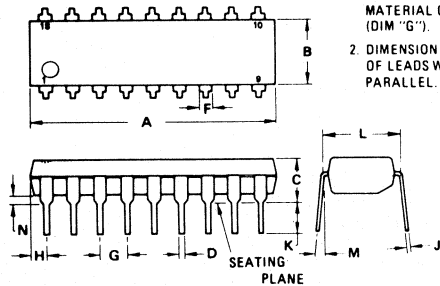
ML265



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	22.22	23.24	0.875	0.915
B	6.60	7.11	0.260	0.280
C	4.06	4.57	0.160	0.180
D	0.36	0.51	0.014	0.020
F	1.02	1.52	0.040	0.060
G	2.41	2.67	0.095	0.105
H	1.14	1.40	0.045	0.055
J	0.20	0.30	0.008	0.012
K	3.05	3.56	0.120	0.140
L	7.37	7.87	0.290	0.310
M	0°	10°	0°	10°
N	0.51	1.02	0.020	0.040

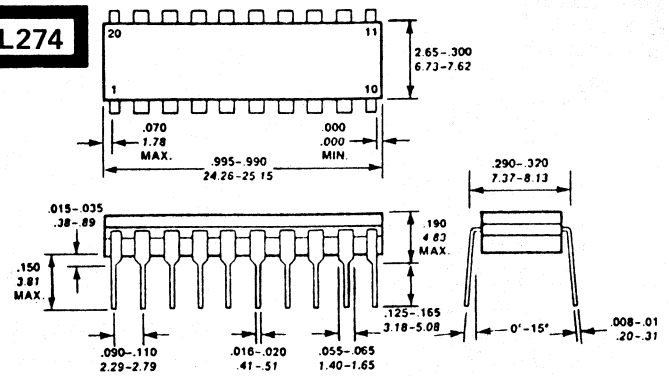
ML271

NOTES:
 1. LEADS WITHIN 0.13 mm (0.005) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION (DIM "G").
 2. DIMENSION "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.



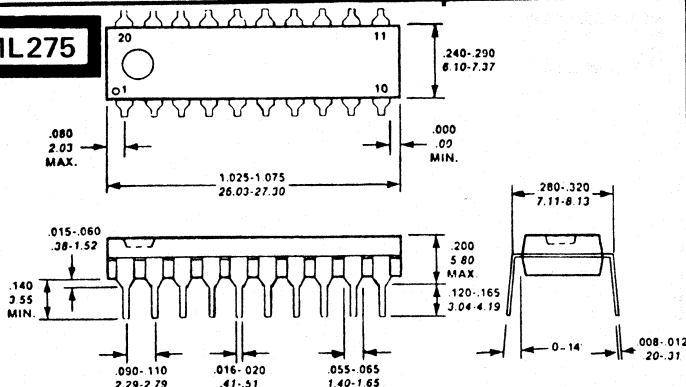
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	23.11	23.88	0.910	0.940
B	6.10	6.60	0.240	0.260
C	4.06	4.57	0.160	0.180
D	0.38	0.51	0.015	0.020
F	1.02	1.52	0.040	0.060
G	2.54 BSC		0.100 BSC	
H	1.32	1.83	0.052	0.072
J	0.20	0.30	0.008	0.012
K	2.92	3.43	0.115	0.135
L	7.37	7.87	0.290	0.310
M	0°	10°	0°	10°
N	0.51	1.02	0.020	0.040

ML274



UNLESS OTHERWISE SPECIFIED:
 ALL DIMENSIONS MIN.-MAX. IN INCHES.
 ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS.

ML275



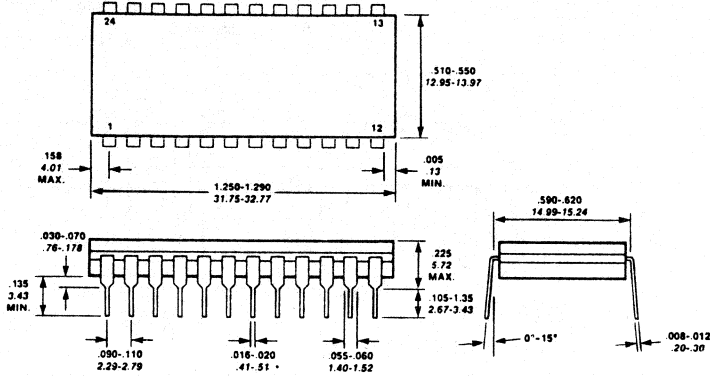
UNLESS OTHERWISE SPECIFIED:
 ALL DIMENSIONS MIN.-MAX. IN INCHES
 ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS.

23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

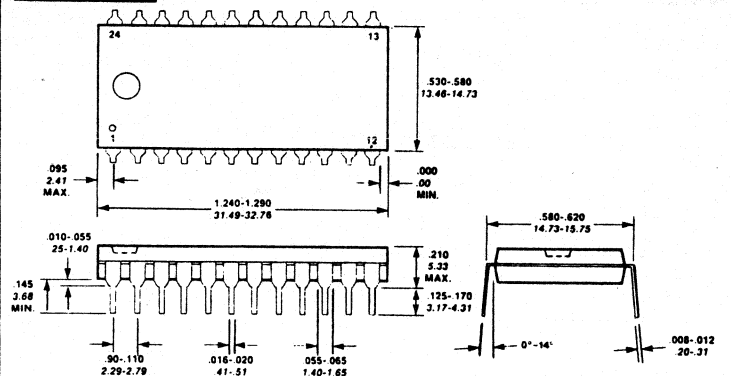
UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS

ML276



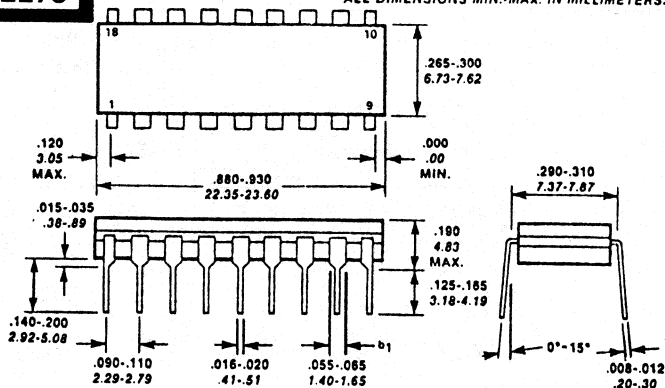
UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS

ML277



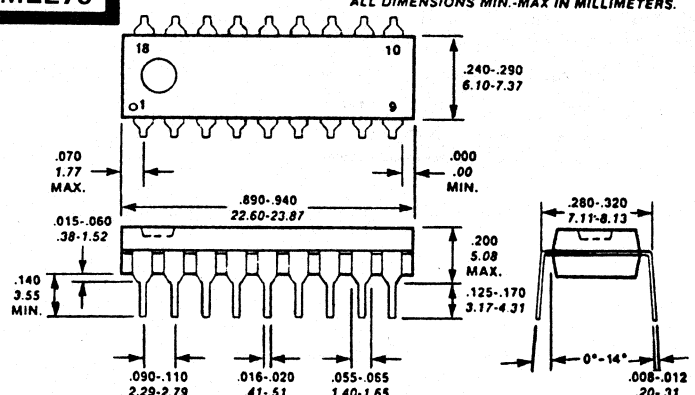
ML278

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS



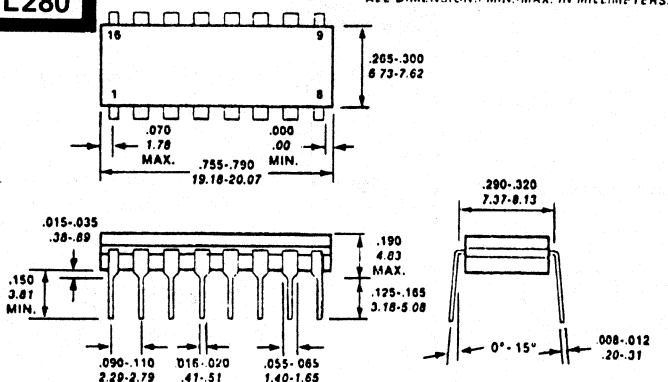
ML279

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS



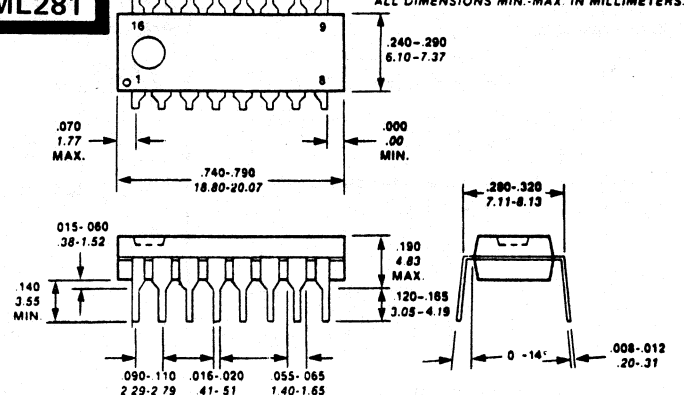
ML280

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS



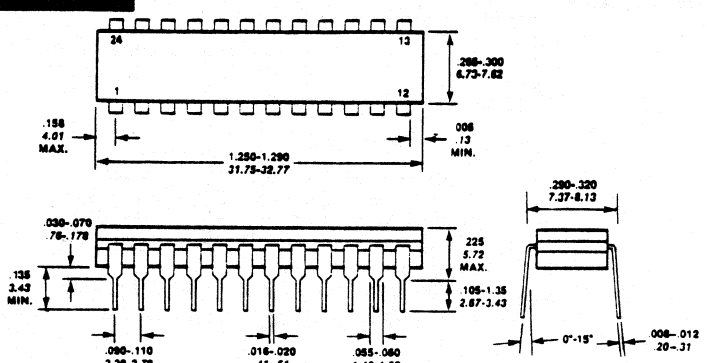
ML281

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS



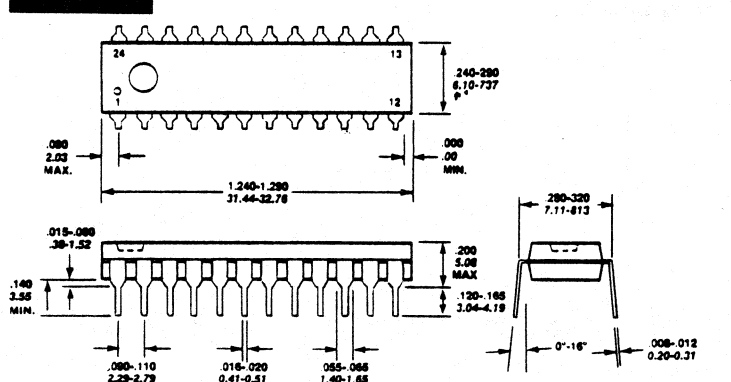
ML282

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS



ML283

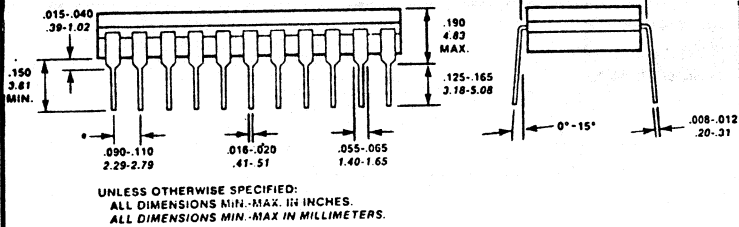
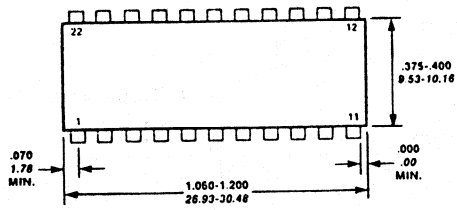
UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS MIN.-MAX. IN INCHES.
ALL DIMENSIONS MIN.-MAX. IN MILLIMETERS



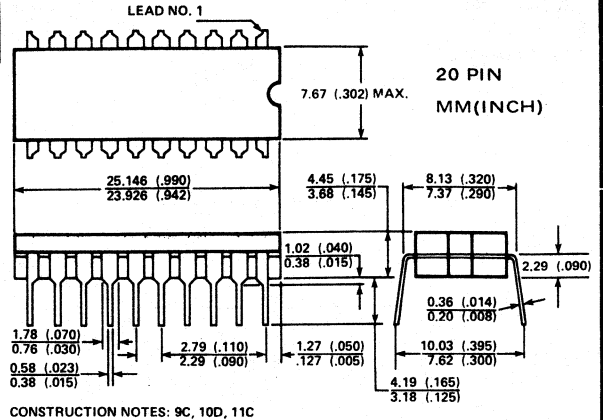
23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

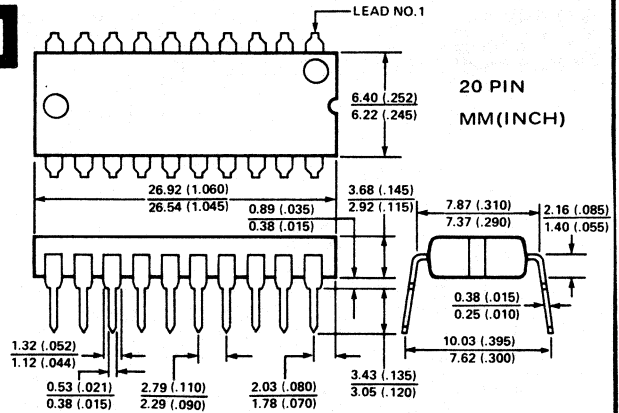
ML284



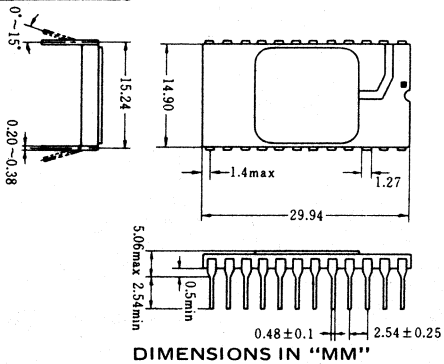
ML285



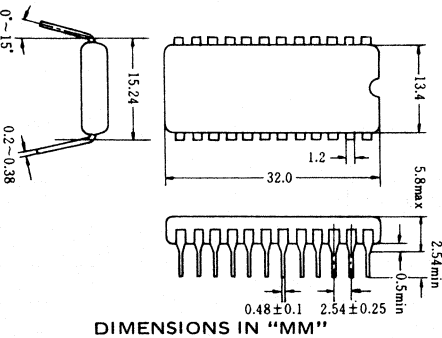
ML286



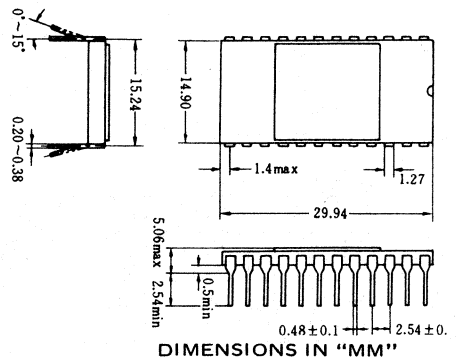
ML287



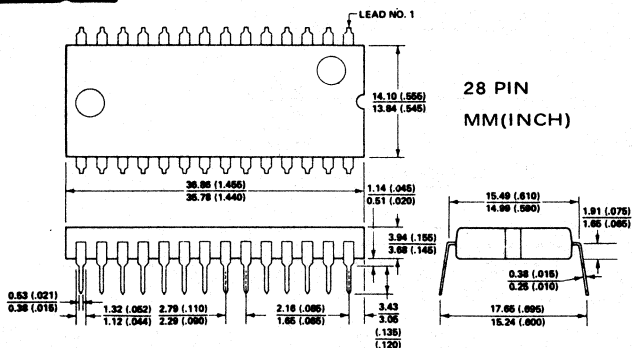
ML288



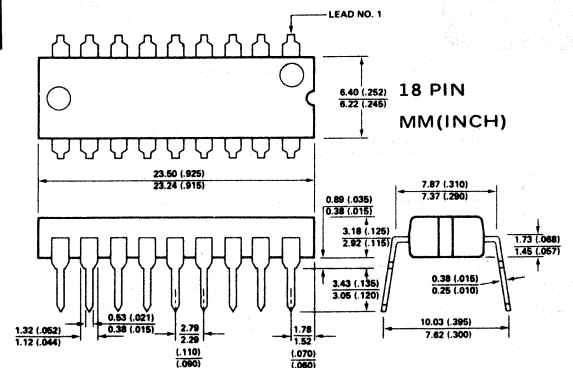
ML289



ML290



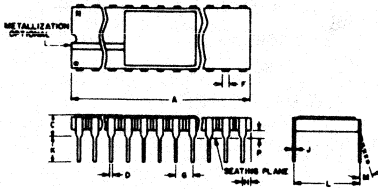
ML291



23. OUTLINE DRAWINGS

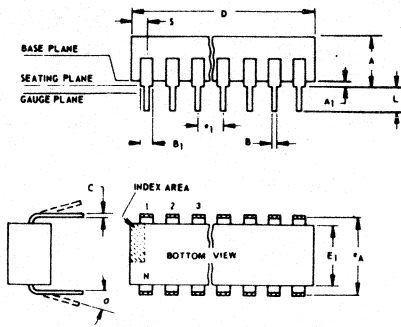
IN DRAWING NUMBER
SEQUENCE

ML292



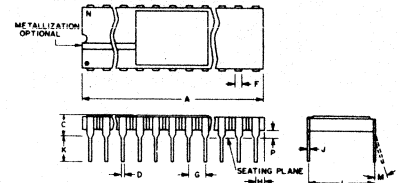
SYMBOL	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	0.890	0.915	22.606	23.241
C	—	0.200	—	5.080
D	0.015	0.021	0.381	0.533
F	0.054	REF.	1.371	REF.
G	0.100	BSC	2.54	BSC
H	0.035	0.065	0.889	1.651
J	0.008	0.012	0.203	0.304
K	0.125	0.150	3.175	3.810
L	0.290	0.310	7.366	7.874
M	0°	15°	0°	15°
P	0.025	0.045	0.635	1.143
N	18		18	

ML293



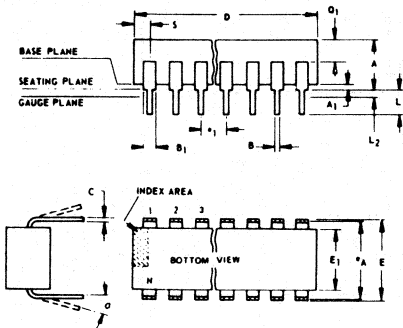
SYMBOL	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	0.155	0.200	3.94	5.08
A ₁	0.020	0.050	0.508	1.27
B	0.014	0.020	0.356	0.508
B ₁	0.035	0.065	0.89	1.65
C	0.008	0.012	0.204	0.304
D	0.845	0.885	21.47	22.47
E ₁	0.240	0.260	6.10	6.60
e ₁	0.100 TP		2.54 TP	
e _A	0.300 TP		7.62 TP	
L	0.125	0.150	3.18	3.81
a	0°	15°	0°	15°
N	18		18	
N ₁	0		0	
S	0.015	0.060	0.39	1.52

ML294



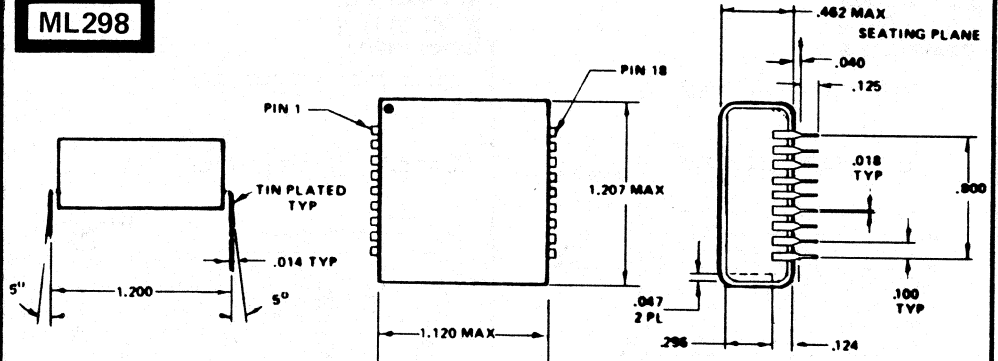
SYMBOL	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	1.065	1.100	27.05	27.94
C	0.085	0.145	2.16	3.68
D	0.017	0.023	0.43	0.56
F	0.040 REF.		1.02 REF.	
G	0.100 BSC		2.54 BSC	
H	0.030	0.070	0.76	1.78
J	0.008	0.012	0.20	0.30
K	0.125	0.175	3.18	4.45
L	0.380	0.420	9.65	10.67
M	—	7°	—	7°
P	0.025	0.050	0.64	1.27
N	22		22	

ML295



SYMBOL	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	0.155	0.200	3.94	5.08
A ₁	0.020	0.050	0.508	1.27
B	0.015	0.020	0.381	0.508
B ₁	0.035	0.065	0.89	1.65
C	0.008	0.012	0.204	0.304
D	—	1.120	—	28.44
E	0.390	0.420	9.91	10.66
E ₁	0.345	0.355	8.77	9.01
e ₁	0.100 TP		2.54 TP	
e _A	0.400 TP		10.16 TP	
L	0.125	0.150	3.18	3.81
L ₂	0	0.030	0	0.762
a	2°	15°	2°	15°
N	22		22	
N ₁	0		0	
Q ₁	0.055	0.085	1.40	2.15
S	0.015	0.060	0.381	1.52

ML298

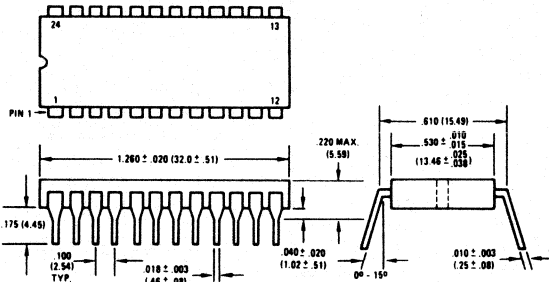


23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

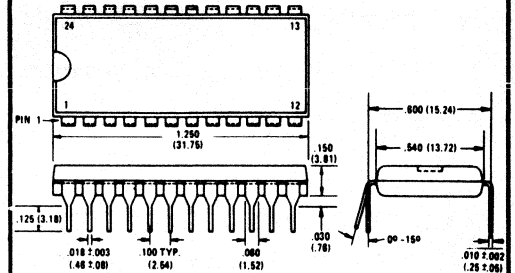
ML310

INCH
(MM)



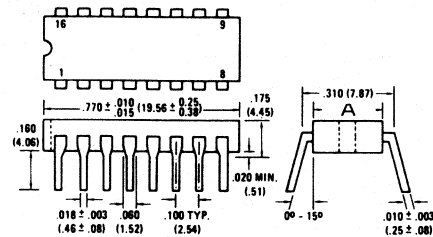
ML311

INCH
(MM)



ML312

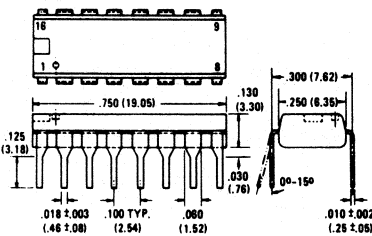
INCH
(MM)



	A
ML312	.270 (6.86)
ML312a	.290 (7.37)

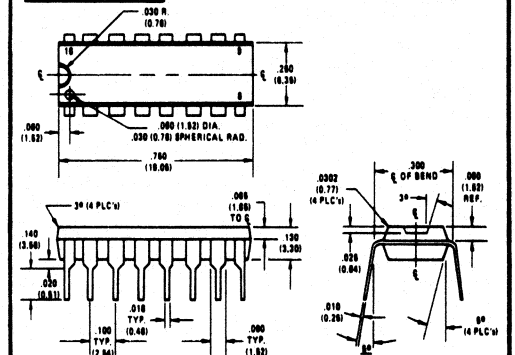
ML313

INCH
(MM)

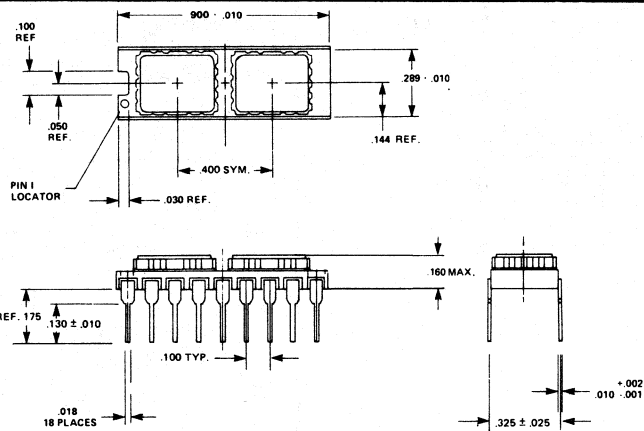


ML314

INCH
(MM)

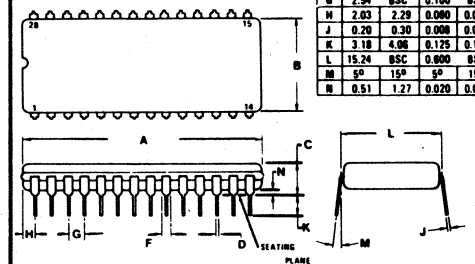


ML315



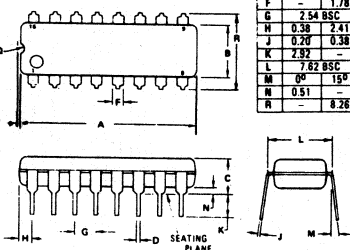
ML316

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	26.83	37.50	1.450	1.480
B	12.70	13.46	0.500	0.530
C	5.08	5.84	0.200	0.230
D	0.38	0.56	0.015	0.022
F	1.27	1.85	0.050	0.065
G	2.54	BSC	0.100	BSC
H	2.03	2.29	0.080	0.090
J	0.20	0.30	0.008	0.012
K	3.18	4.06	0.125	0.160
L	15.24	BSC	0.600	BSC
M	0°	15°	0°	15°
N	0.51	1.27	0.020	0.050



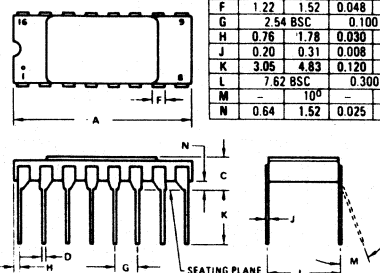
ML317

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	22.10	-	0.870	-
B	6.10	6.80	0.240	0.260
C	5.08	-	0.200	-
D	0.38	0.53	0.015	0.021
F	-	1.78	-	0.070
G	2.54	BSC	0.100	BSC
H	0.38	2.41	0.015	0.095
J	0.20	0.38	0.008	0.015
K	2.52	-	0.115	-
L	7.62	BSC	0.300	BSC
M	0°	15°	0°	15°
N	0.51	-	0.020	-
R	-	8.28	-	0.325



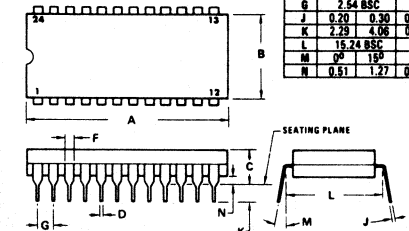
ML318

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	20.07	20.57	0.790	0.810
C	2.67	3.94	0.105	0.155
D	0.38	0.53	0.015	0.021
F	1.22	1.52	0.048	0.060
G	2.54	BSC	0.100	BSC
H	0.76	1.78	0.030	0.070
J	0.20	0.31	0.008	0.012
K	3.05	4.83	0.120	0.190
L	7.62	BSC	0.300	BSC
M	-	10°	-	10°
N	0.64	1.52	0.025	0.060



ML319

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	31.24	32.26	1.230	1.270
B	12.70	13.72	0.500	0.540
C	4.06	5.39	0.160	0.210
D	0.41	0.51	0.016	0.020
F	1.27	1.52	0.050	0.060
G	2.54	BSC	0.100	BSC
H	0.20	0.30	0.008	0.012
K	2.29	4.06	0.090	0.160
L	15.24	BSC	0.600	BSC
M	0°	15°	0°	15°
N	0.51	1.27	0.020	0.050

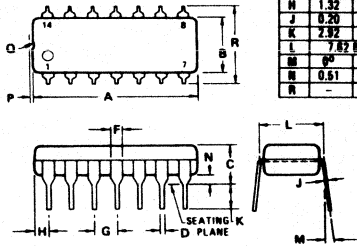


23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

ML329

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	18.63	18.56	0.710	0.770
B	6.10	6.60	0.240	0.260
C	5.08	-	0.200	-
D	0.38	0.63	0.015	0.021
F	1.62	1.76	0.040	0.070
H	2.54 BSC	-	0.100 BSC	-
N	1.32	2.41	0.062	0.096
J	0.20	0.36	0.008	0.015
K	2.92	-	0.116	-
L	7.62 BSC	-	0.300 BSC	-
M	0°	15°	0°	15°
R	0.51	8.26	-	0.326



ML330

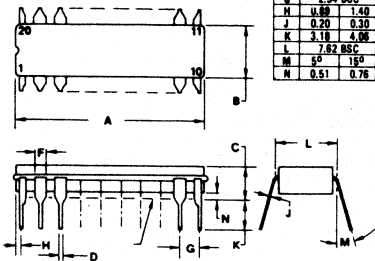
MFR.	PKG.	USE DWG.
TII	J	MO001AA
	N	MO001AA
MOTA	J	ML328
	N	ML329
AMV	J	ML342
	N	ML343

ML331

MFR.	PKG.	USE DWG.
TII	J	ML61a
	N	ML209
MOTA	J	ML157a
	N	ML317
AMV	J	ML62c
	N	ML89a

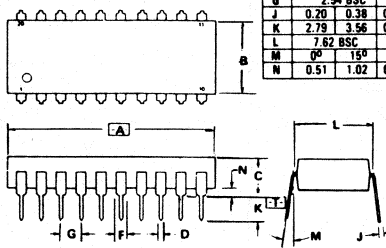
ML332

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	24.38	25.15	0.960	0.990
B	6.86	7.49	0.270	0.295
C	4.32	5.00	0.170	0.200
D	0.38	0.56	0.015	0.022
F	1.40	1.65	0.055	0.065
G	2.54 BSC	-	0.100 BSC	-
H	4.68	1.40	0.095	0.055
J	0.20	0.30	0.008	0.012
K	3.18	4.08	0.125	0.160
L	7.62 BSC	-	0.300 BSC	-
M	0°	15°	0°	15°
N	0.51	0.76	0.020	0.030



ML333

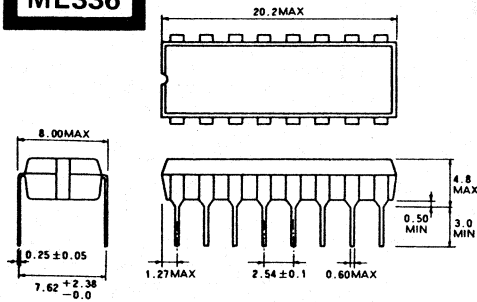
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	25.65	27.18	1.010	1.070
B	6.10	6.60	0.240	0.260
C	3.94	4.19	0.155	0.165
D	0.38	0.56	0.015	0.022
F	1.27	1.78	0.050	0.070
G	2.54 BSC	-	0.100 BSC	-
J	0.20	0.38	0.008	0.015
K	2.79	3.56	0.110	0.140
L	7.62 BSC	-	0.300 BSC	-
M	0°	15°	0°	15°
N	0.51	1.02	0.020	0.040



ML334

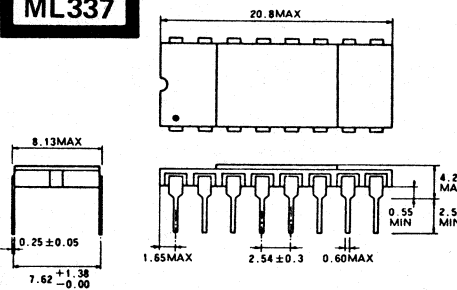
MFR.	PKG.	USE DWG.
TII	J	ML213
	N	ML161
MOTA	J	ML332
	N	ML333
MMI	J	ML274
	N	ML275
AMV	J	ML377
	N	ML161g

ML336



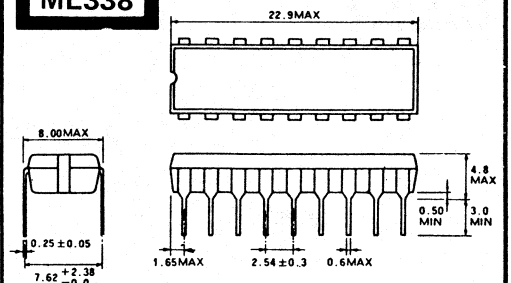
DIMENSIONS IN "MM"

ML337



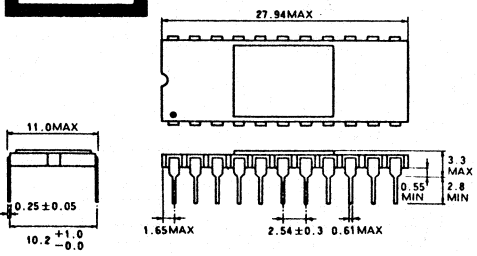
DIMENSIONS IN "MM"

ML338



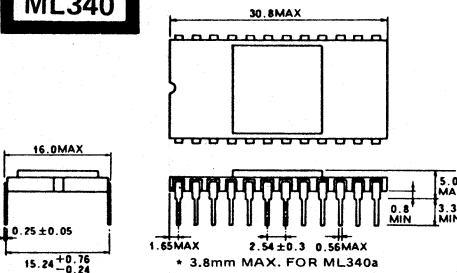
DIMENSIONS IN "MM"

ML339



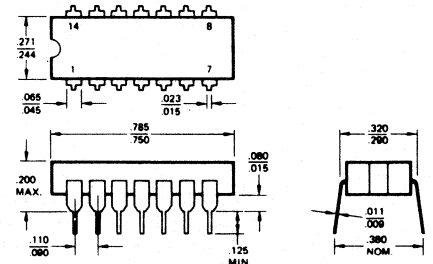
DIMENSIONS IN "MM"

ML340



DIMENSIONS IN "MM"

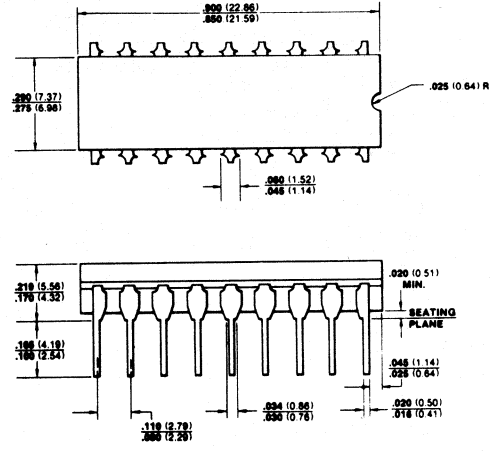
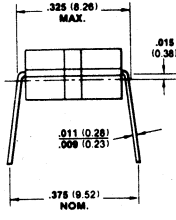
ML342



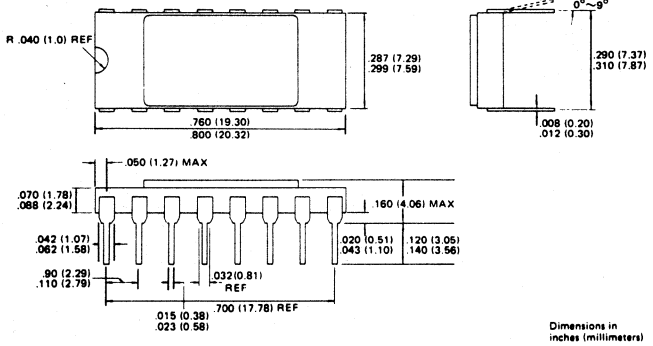
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

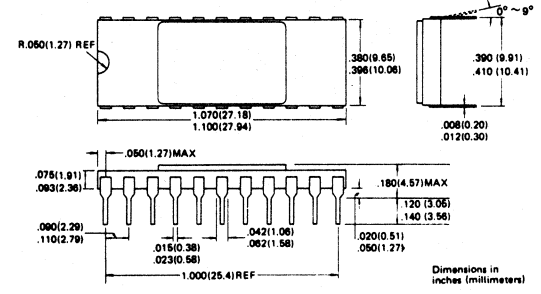
ML344



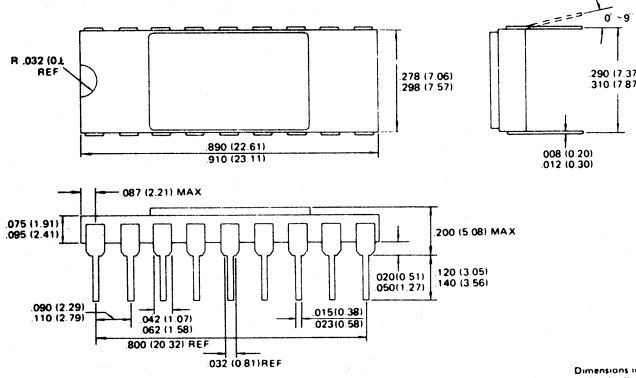
ML345



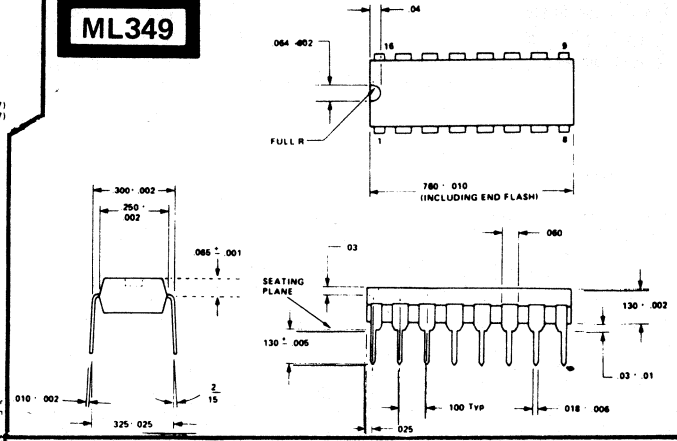
ML346



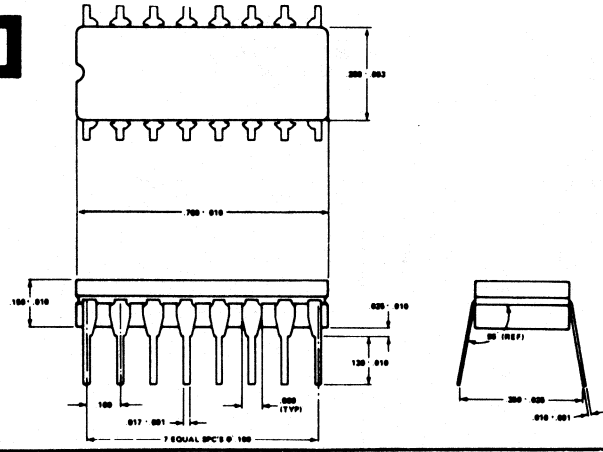
ML347



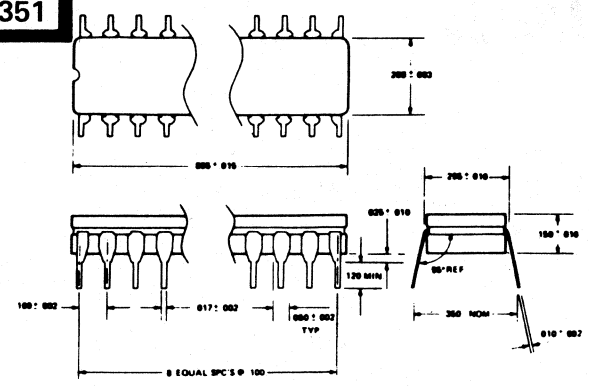
ML349



ML350



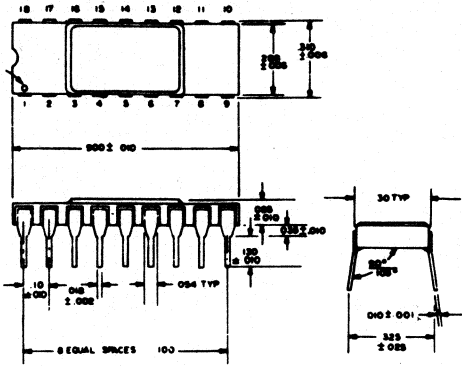
ML351



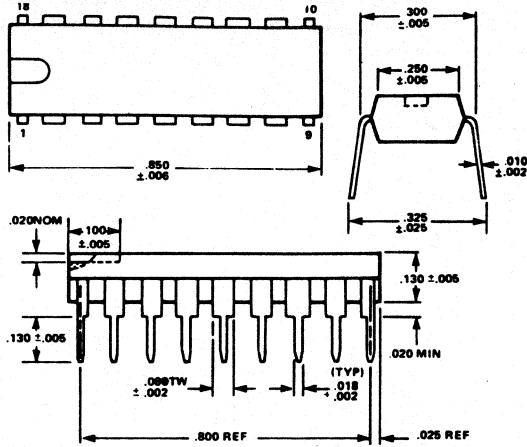
23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

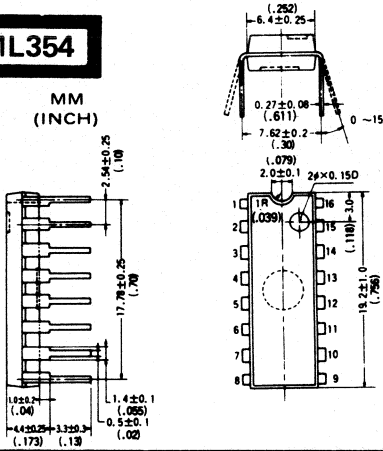
ML352



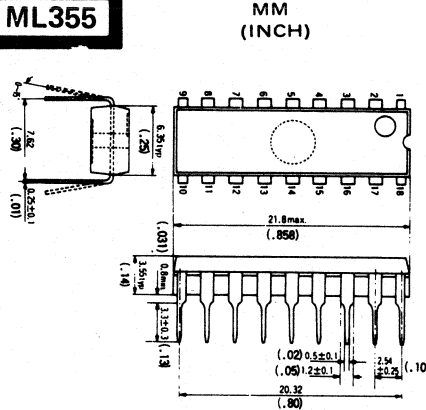
ML353



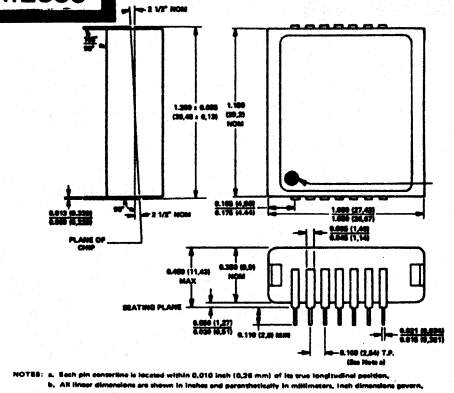
ML354



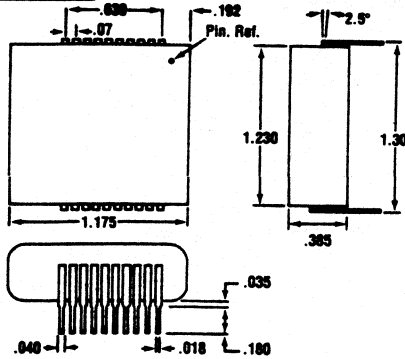
ML355



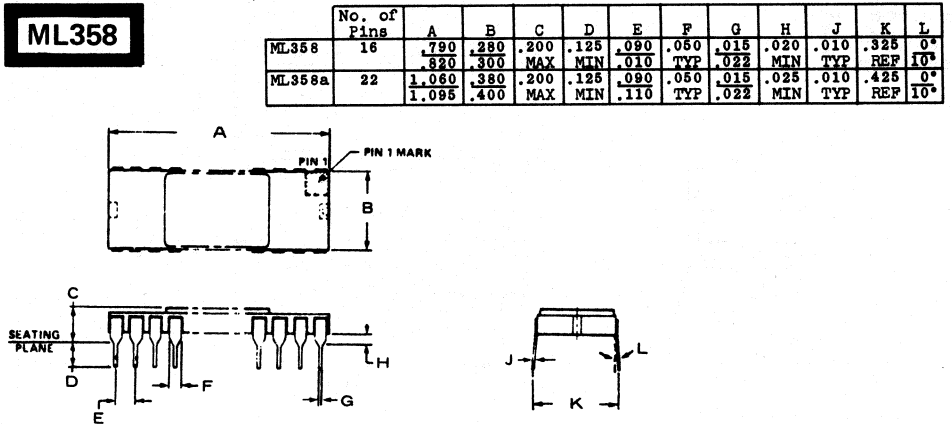
ML356



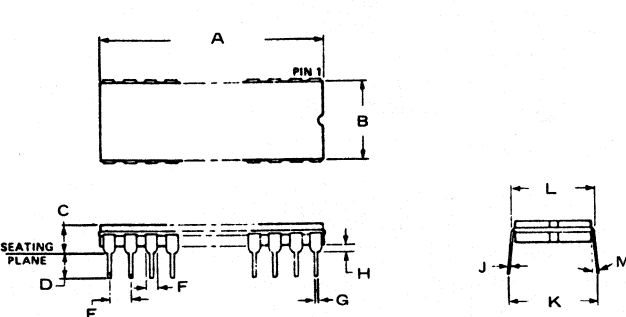
ML357



ML358



ML359

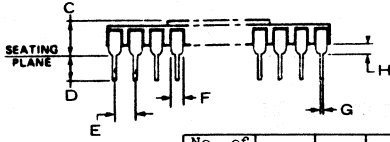
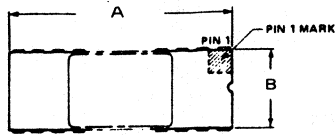


No. of Pins	A	B	C	D	E	F	G	H	J	K	L	M
	ML359	.750	.265	.200	.125	.090	.060	.016	.015	.010	.375	.325	0°
	.790	.310	MAX	MIN	.110	TYP	.020	MIN	TYP	REF	MAX	15°
ML359a	.880	.265	.200	.125	.090	.060	.016	.015	.010	.375	.325	0°
	.920	.310	MAX	MIN	.110	TYP	.020	MIN	TYP	REF	MAX	15°
ML359b	.950	.265	.200	.125	.090	.060	.016	.015	.010	.375	.325	0°
	.990	.310	MAX	MIN	.110	TYP	.020	MIN	TYP	REF	MAX	15°
ML359c	1.060	.370	.200	.125	.090	.060	.016	.015	.010	.475	.425	0°
	1.095	.400	MAX	MIN	.110	TYP	.020	MIN	TYP	REF	MAX	15°
ML359d	1.235	.515	.220	.125	.090	.060	.016	.015	.010	.675	.625	0°
	1.285	.600	MAX	MIN	.110	TYP	.020	MIN	TYP	REF	MAX	15°

23. OUTLINE DRAWINGS

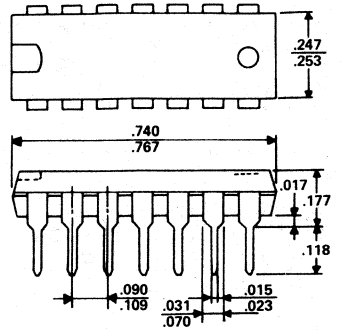
IN DRAWING NUMBER SEQUENCE

ML360

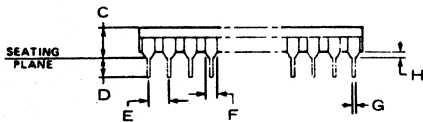
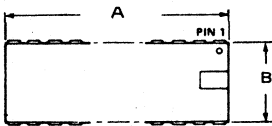


	No. of Pins	A	B	C	D	E	F	G	H	J	K	L
ML360	18	.880 .920	.280 .300	.200 MAX	.125 MIN	.090 .110	.050 TYP	.015 .022	.025 MIN	.010 TYP	.325 REF	0° 10°
ML360a	20	.970 .990	.280 .300	.200 MAX	.125 MIN	.090 .110	.050 TYP	.015 .022	.025 MIN	.010 TYP	.325 REF	0° 10°
ML360b	24	1.185 1.215	.570 .600	.200 MAX	.125 MIN	.090 .110	.050 TYP	.015 .022	.020 MIN	.010 TYP	.625 REF	0° 10°

ML362

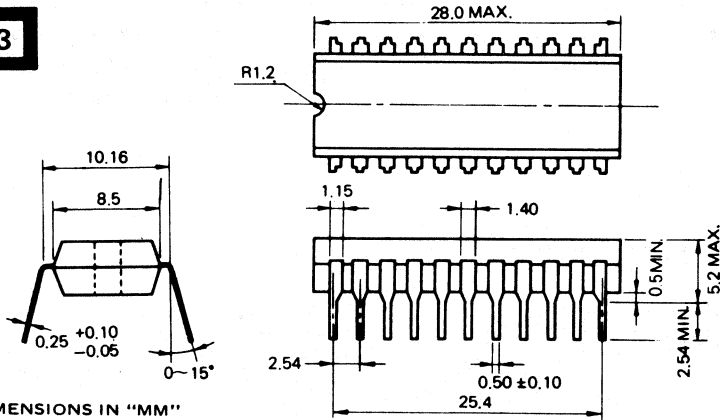


ML361



	No. of Pins	A	B	C	D	E	F	G	H	J	K	L	M
ML361	16	.825 .835	.245 .255	.200 MAX	.125 MIN	.090 .110	.060 TYP	.016 .020	.015 MIN	.010 TYP	.350 REF	.325 MAX	0° 15°
ML361a	18	.895 .905	.245 .255	.200 MAX	.125 MIN	.090 .110	.060 TYP	.016 .020	.015 MIN	.010 TYP	.350 REF	.325 MAX	0° 15°
ML361b	22	1.095 1.105	.345 .355	.200 MAX	.125 MIN	.090 .110	.060 TYP	.016 .020	.015 MIN	.010 TYP	.450 REF	.425 MAX	0° 15°
ML361c	24	1.235 1.245	.535 .545	.200 MAX	.125 MIN	.090 .110	.060 TYP	.016 .020	.015 MIN	.010 TYP	.650 REF	.625 MAX	0° 15°
ML361d	20	1.025 1.035	.245 .255	.200 MAX	.125 MIN	.090 .100	.060 TYP	.016 .020	.015 MIN	.010 TYP	.350 REF	.325 MAX	0° 15°

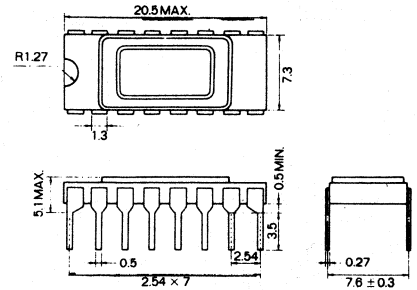
ML363



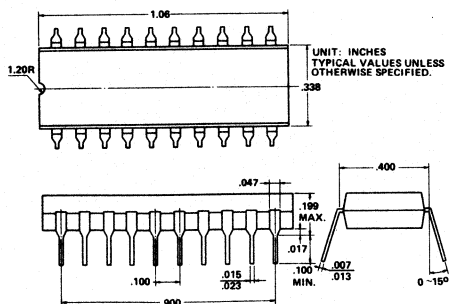
DIMENSIONS IN "MM"

ML364

DIMENSIONS IN "MM"

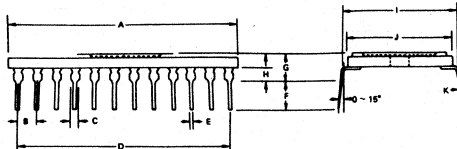
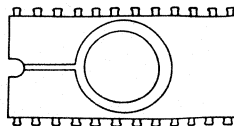


ML365



UNIT: INCHES
TYPICAL VALUES UNLESS OTHERWISE SPECIFIED.

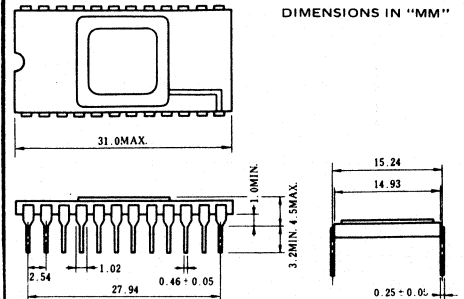
ML366



ITEM	MILLIMETERS	INCHES
A	33.5 MAX	1.28 MAX
B	2.54	0.1
C	1.20 MIN	0.047 MIN
D	27.94	1.1
E	0.5 ± 0.1	0.02 ± 0.004
F	3.2 MIN	0.126 MIN
G	5.2 MAX	0.205 MAX
H	1.0 MIN	0.04 MIN
I	15.24	0.6
J	12.8	0.55
K	0.30 ± 0.1	0.012 ± 0.004

TYPICAL DIMENSIONS UNLESS OTHERWISE SPECIFIED

ML367

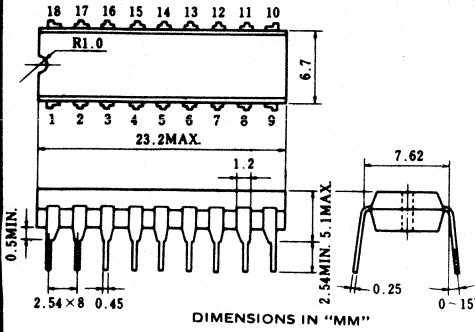


DIMENSIONS IN "MM"

23. OUTLINE DRAWINGS

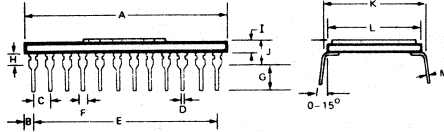
IN DRAWING NUMBER SEQUENCE

ML368



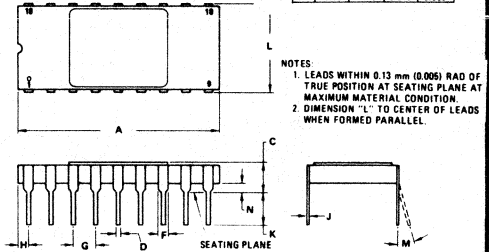
ML369

Item	Millimeters	Inches
A	32.5 max	1.28 max
B	2.28	0.09
C	2.54	0.10
D	0.5 ± 0.1	0.02 ± 0.004
E	27.94	1.1
F	1.27	0.06
G	3.2 min	0.126 min
H	1.0 min	0.04 min
I	4.2 max	0.165 max
J	5.2 max	0.205 max
K	15.24	0.6
L	13.9	0.55
M	0.30 ± 0.1	0.012 ± 0.004

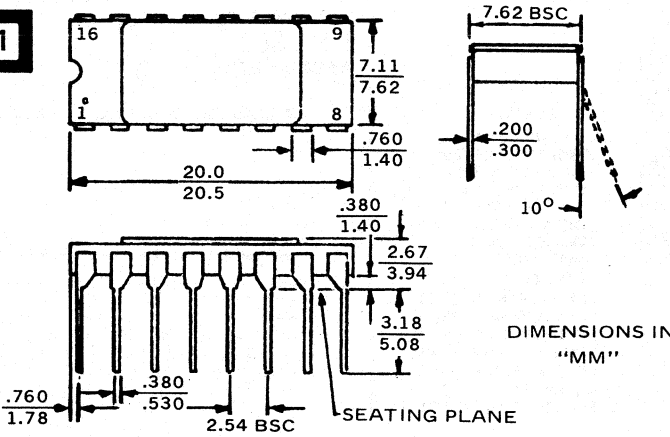


ML370

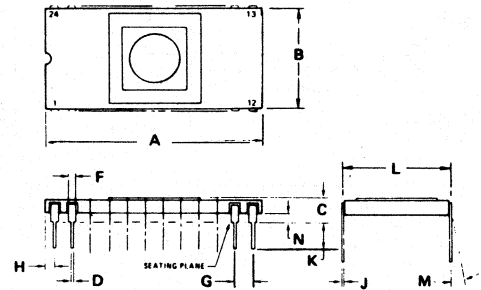
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	22.48	23.24	0.885	0.915
B	7.18	7.57	0.282	0.298
C	3.18	4.27	0.125	0.168
D	0.38	0.58	0.015	0.023
F	0.78	1.40	0.030	0.055
G	2.54 BSC		0.100 BSC	
H	1.02	1.52	0.040	0.060
J	0.20	0.30	0.008	0.012
K	2.68	4.44	0.105	0.175
L	7.37	7.87	0.290	0.310
M	—	1.00	—	1.00
N	0.38	1.40	0.015	0.055



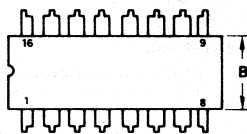
ML371



ML373

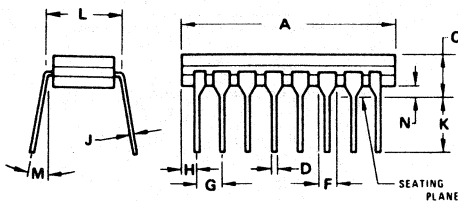


ML372



- LEADS WITHIN 0.13 mm (0.005) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION.
- PACKAGE INDEX: NOTCH IN LEAD NOTCH IN CERAMIC OR INK DOT.
- DIM "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.
- DIM "A" AND "B" DO NOT INCLUDE GLASS RUN-OUT.
- DIM "F" MAY NARROW TO 0.76 mm (0.030) WHERE THE LEAD ENTERS THE CERAMIC BODY.

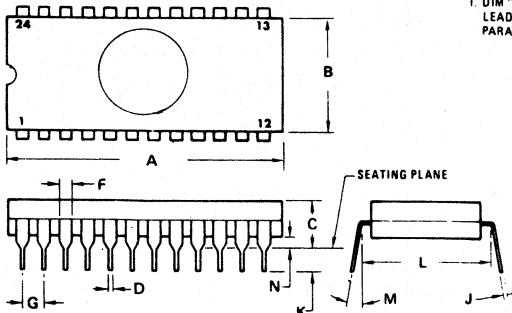
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	19.05	19.94	0.750	0.785
B	6.10	7.49	0.240	0.295
C	—	5.08	—	0.200
D	0.38	0.53	0.015	0.021
F	1.40	1.78	0.055	0.070
G	2.54 BSC		0.100 BSC	
H	0.51	1.14	0.020	0.045
J	0.20	0.30	0.008	0.012
K	3.18	5.08	0.125	0.200
L	7.62 BSC		0.300 BSC	
M	—	1.90	—	1.50
N	0.51	1.02	0.020	0.040



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	27.64	30.99	1.088	1.220
B	14.94	15.34	0.588	0.604
C	3.18	5.08	0.125	0.200
D	0.38	0.53	0.015	0.021
F	0.76	1.40	0.030	0.055
G	2.54 BSC		0.100 BSC	
H	0.76	1.78	0.030	0.070
J	0.20	0.30	0.008	0.012
K	2.54	4.19	0.100	0.165
L	14.89	15.49	0.590	0.610
M	—	1.00	—	1.00
N	1.02	1.52	0.040	0.060

- NOTE:
- LEADS TRUE POSITIONED WITHIN 0.25mm (0.010) DIA (AT SEATING PLANE) AT MAXIMUM MATERIAL CONDITION.
 - DIM "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.

ML374



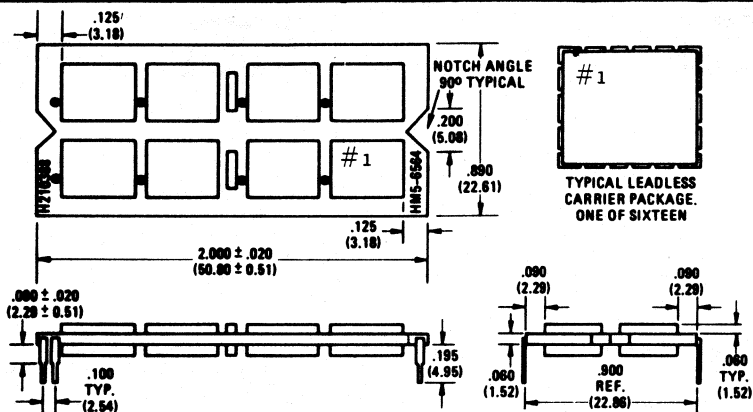
- NOTES:
- DIM "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.
 - LEADS WITHIN 0.13 mm (0.005) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION. (WHEN FORMED PARALLEL).

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	31.24	32.26	1.230	1.270
B	12.70	13.72	0.500	0.540
C	4.06	5.84	0.160	0.230
D	0.41	0.51	0.016	0.020
F	1.27	1.52	0.050	0.060
G	2.54 BSC		0.100 BSC	
J	0.20	0.30	0.008	0.012
K	2.28	4.06	0.090	0.160
L	15.24 BSC		0.600 BSC	
M	0°	15°	0°	15°
N	0.51	1.27	0.020	0.050

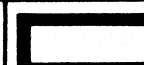
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

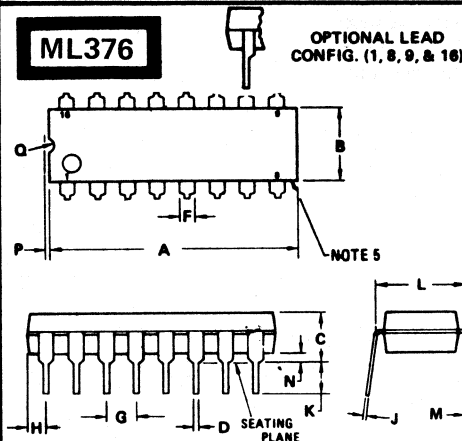
ML375



All dimensions in inches; millimeters are shown in parentheses.
All dimensions ±0.10 (±0.25mm) unless otherwise shown.



ML376

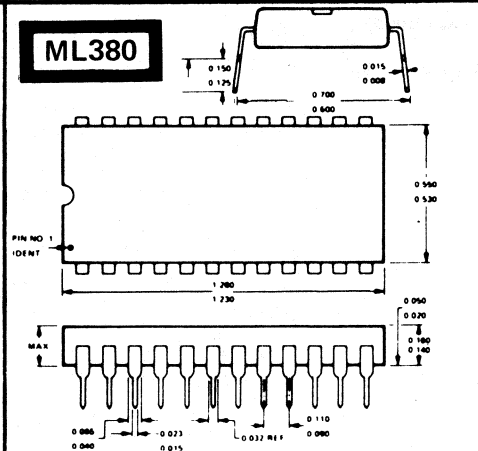


OPTIONAL LEAD CONFIG. (1, 8, 9, & 16)

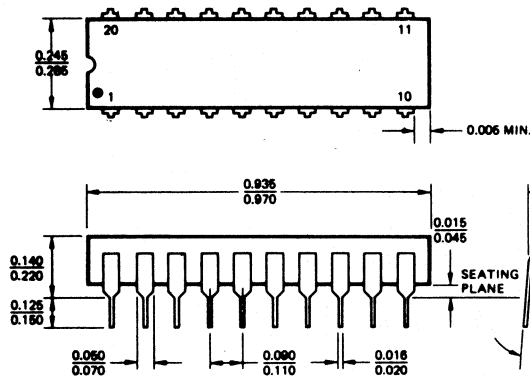
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	18.80	21.34	0.740	0.840
B	6.10	6.80	0.240	0.260
C	4.06	5.08	0.160	0.200
D	0.38	0.53	0.015	0.021
F	1.02	1.78	0.040	0.070
G	2.54 BSC		0.100 BSC	
H	0.38	2.41	0.015	0.095
J	0.20	0.38	0.008	0.015
K	2.92	3.43	0.115	0.135
L	7.62 BSC		0.300 BSC	
M	0°		10°	
N	0.51	1.02	0.020	0.040

- NOTES:
- LEADS WITHIN 0.13 mm (0.006) RADIUS OF TRUE POSITION AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION.
 - DIMENSION "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.
 - DIMENSION "B" DOES NOT INCLUDE MOLD FLASH.
 - "F" DIMENSION IS FOR FULL LEADS. "HALF" LEADS ARE OPTIONAL AT LEAD POSITIONS 1, 8, 9, and 16).
 - ROUNDED CORNERS OPTIONAL.

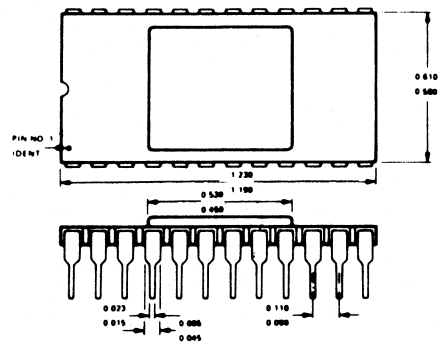
ML380



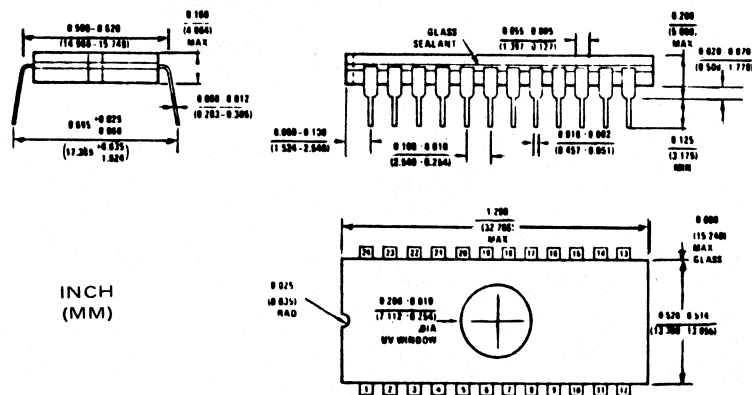
ML377



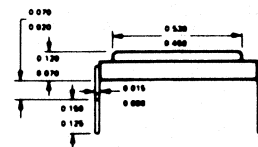
ML381



ML378



INCH (MM)

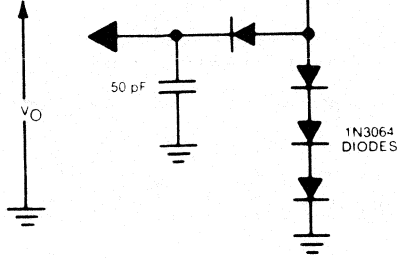


23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

ML382

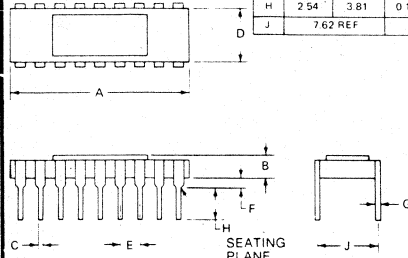
OUTPUT
UNDER TEST



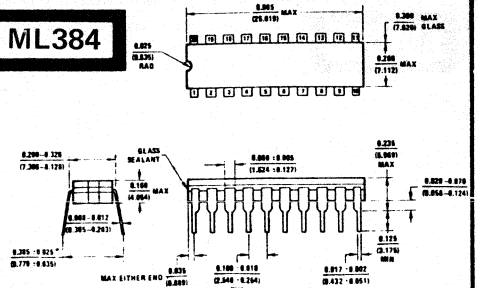
• Capacitive loading to simulate effect of seven additional outputs plus one TTL input

ML383

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	22.6	23.1	0.890	0.910
B		3.18		0.125
C	0.38	0.53	0.015	0.021
D	7.06	7.57	0.278	0.298
E	2.29	2.79	0.090	0.110
F	0.64	1.65	0.025	0.065
G	0.20	0.21	0.008	0.012
H	2.54	3.81	0.100	0.150
J		7.62 REF		0.300 REF



ML384



NS Package J20B
20-Lead Cavity DIP (J)

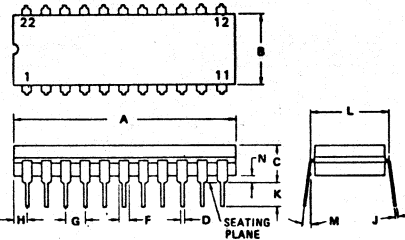
±0.025
-0.015
(8.255 -0.635)
-0.381

* If parts are burned-in, they will be formed to

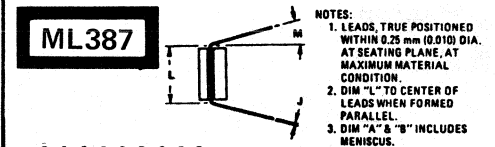
ML386

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	25.85	27.18	1.010	1.070
B	9.14	9.91	0.360	0.390
C	3.56	4.51	0.140	0.180
D	0.38	0.53	0.015	0.021
F	1.27	1.65	0.050	0.065
G	2.54 BSC		0.100 BSC	
H	0.51	1.27	0.020	0.050
J	0.20	0.30	0.008	0.012
K	2.54	4.32	0.100	0.170
L	10.16 BSC		0.400 BSC	
M	0°	15°	0°	15°
N	0.51	1.27	0.020	0.050

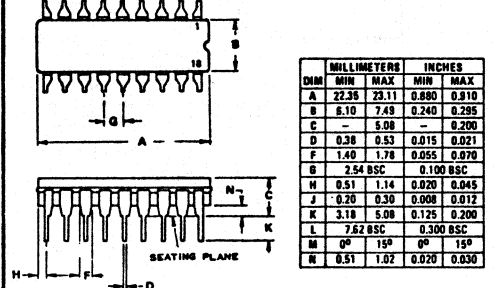
NOTES:
1. LEADS TRUE POSITIONED WITHIN 0.25 mm (0.010) DIA AT SEATING PLANE AT MAXIMUM MATERIAL CONDITION (DIM "D").
2. DIM "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.



ML387



NOTES:
1. LEADS, TRUE POSITIONED WITHIN 0.25 mm (0.010) DIA. AT SEATING PLANE, AT MAXIMUM MATERIAL CONDITION.
2. DIM "L" TO CENTER OF LEADS WHEN FORMED PARALLEL.
3. DIM "A" & "B" INCLUDES MENISCUS.

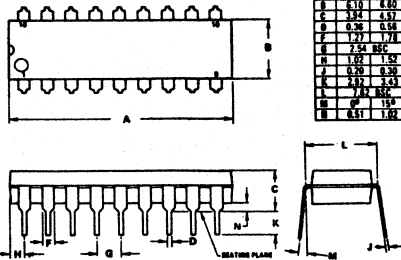


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	22.35	23.11	0.880	0.910
B	8.10	7.63	0.240	0.290
C		5.08		0.200
D	0.38	0.53	0.015	0.021
F	1.40	1.78	0.055	0.070
B	2.54 BSC		0.100 BSC	
H	0.51	1.14	0.020	0.045
J	0.20	0.30	0.008	0.012
K	3.18	5.08	0.125	0.200
L	7.62 BSC		0.300 BSC	
M	0°	15°	0°	15°
N	0.51	1.02	0.020	0.030

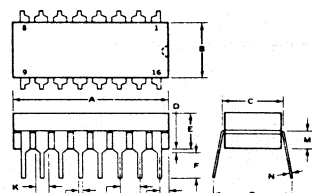
ML388

NOTES:
1. POSITIONAL TOLERANCE OF LEADS (DL) SHALL BE WITHIN 0.25mm(0.010) AT MAXIMUM MATERIAL CONDITION, IN RELATION TO SEATING PLANE AND EACH OTHER.
2. DIMENSION L TO CENTER OF LEADS WHEN FORMED PARALLEL.
3. DIMENSION B DOES NOT INCLUDE MOLD FLANK.

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	22.23	22.74	0.875	0.915
B	8.13	8.60	0.320	0.338
C	3.42	4.67	0.134	0.184
D	0.38	0.51	0.015	0.020
F	1.27	1.78	0.050	0.070
G	2.54 BSC		0.100 BSC	
H	1.02	1.52	0.040	0.060
J	0.20	0.30	0.008	0.012
K	2.54	4.43	0.100	0.175
L	7.62 BSC		0.300 BSC	
M	0°	15°	0°	15°
N	0.51	1.02	0.020	0.040

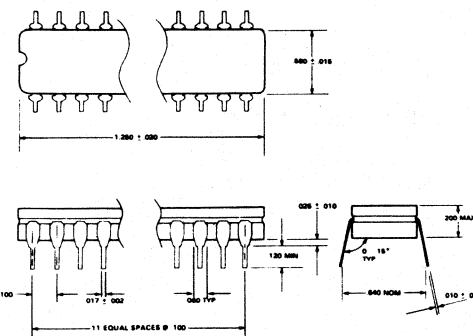


ML389

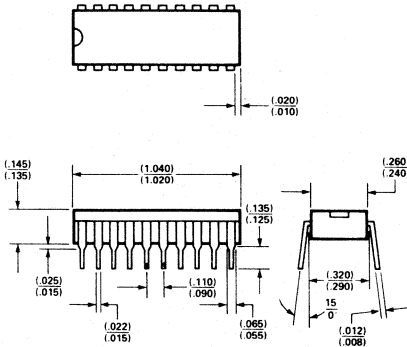


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	22.50	23.00	0.885	0.910
B	8.13	8.63	0.320	0.339
C	3.43	4.73	0.135	0.187
D	0.38	0.53	0.015	0.021
F	1.27	1.78	0.050	0.070
G	2.54 BSC		0.100 BSC	
H	1.02	1.52	0.040	0.060
J	0.20	0.30	0.008	0.012
K	2.54	4.43	0.100	0.175
L	7.62 BSC		0.300 BSC	
M	0°	15°	0°	15°
N	0.51	1.02	0.020	0.040

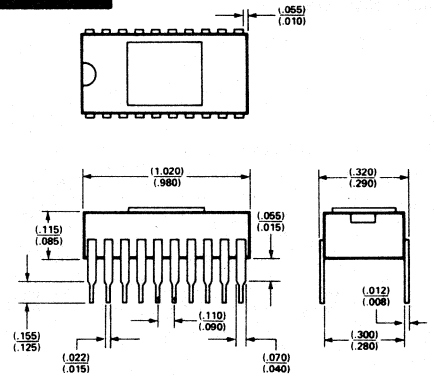
ML390



ML391



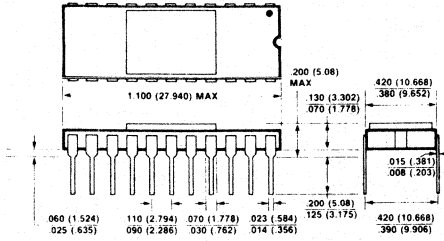
ML392



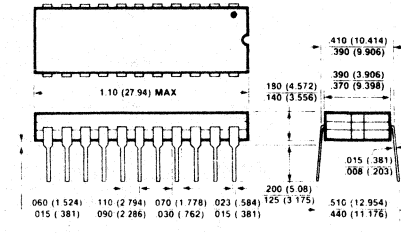
23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

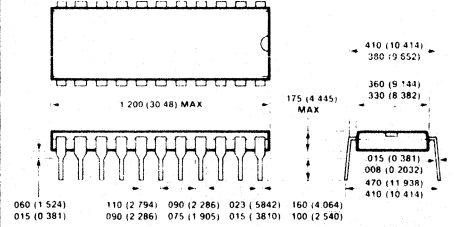
ML405



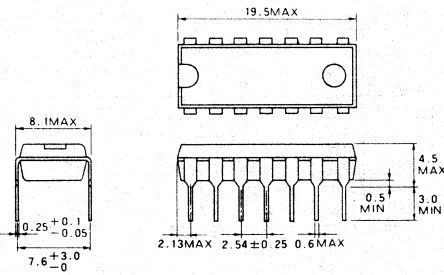
ML406



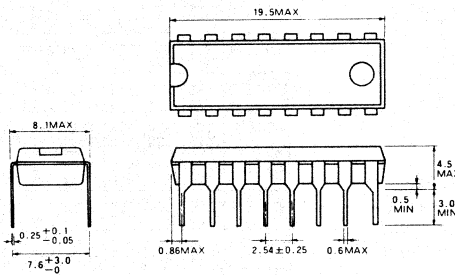
ML407



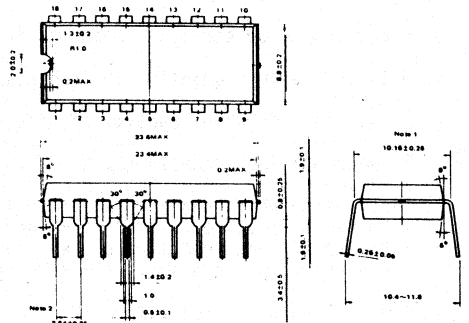
ML408



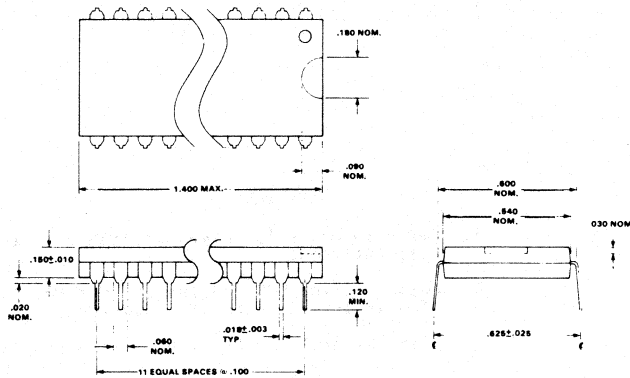
ML409



ML418



ML419

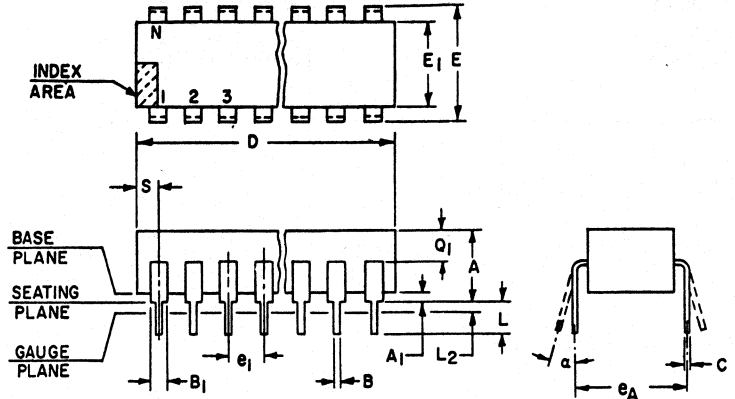


NOTE: Overall length includes .008 flash on either end of package

23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

MO001

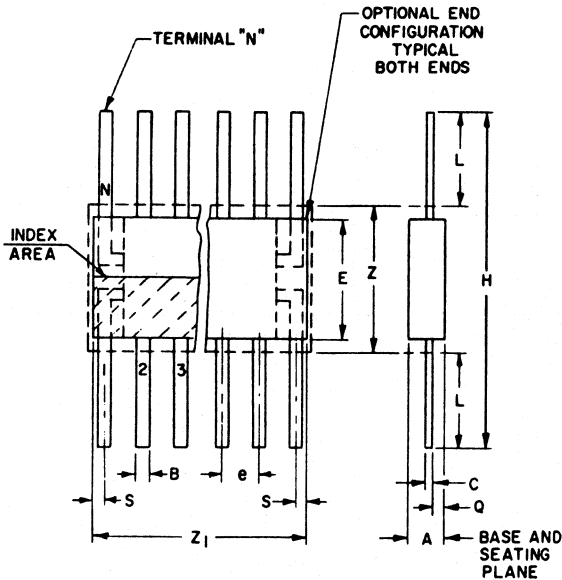


NOTES :

1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .005 radius of True Position (TP) at gauge plane with maximum material condition and unit installed.
4. e_1 and e_A applies in zone L_2 when unit installed.
5. α applies to spread leads prior to installation.
6. N is the maximum quantity of lead positions.
7. N_1 is the allowable quantity of missing leads.
8. E_1 does not include mold flash.
9. Outlines on which the seating plane is coincident with the base plane ($A_1 = 0$) terminal lead stand-offs are not required, and B_1 may equal B along any part of the lead above the seating/base plane.
10. Controlling Dimension: INCH

	A	A1	B	B1	C	D	E	E1	e1	eA	L	L2	a	N	N1	Q1	S	NOTES
MO001AA	.200	.020	.015	.030	.008	.680	.325	.220	.100	.300	.100	.000	0°	14	0			1,2,10
NOTES	MAX	MIN	.023	.070	.013	.785	MAX	.280	T.P.	T.P.	MIN	.030	15°	5	6	7		
MO001AB	.155	.020	.014	.050	.008	.745	.300	.240	.100	.300	.125	.000	0°	14	0	.040	.065	1,2,10
NOTES	.200	.050	.020	.085	.012	.770	.325	.260	T.P.	T.P.	.150	.030	15°	5	6	.075	.090	
MO001AC	.155	.020	.014	.035	.008	.745	.300	.240	.100	.300	.125	.000	0°	16	0	.040	.015	1,2,10
NOTES	.200	.050	.020	.065	.012	.785	.325	.260	T.P.	T.P.	.150	.030	15°	5	6	.075	.060	
MO001AD	.120	.020	.014	.050	.008	.745	.300	.240	.100	.300	.125	.000	0°	14	0	.050	.065	1,2,10
NOTES	.160	.065	.020	.085	.012	.770	.325	.260	T.P.	T.P.	.150	.030	15°	5	6	.085	.090	
MO001AE	.120	.020	.014	.035	.008	.745	.300	.240	.100	.300	.125	.000	0°	16	0	.050	.015	1,2,10
NOTES	.160	.065	.020	.065	.012	.785	.325	.260	T.P.	T.P.	.150	.030	15°	5	6	.085	.060	
MO001AF	.165	.015	.015	.045	.009	.750	.295	.245	.100	.300	.120	.000	2°	14	0	.050	.050	1,2,10
NOTES	.210	.045	.020	.070	.011	.795	.325	.300	T.P.	T.P.	.160	.030	15°	5	6	.080	.110	
MO001AG	.165	.015	.015	.045	.009	.750	.295	.245	.100	.300	.120	.000	2°	16	0	.050	.010	1,2,10
NOTES	.210	.045	.020	.070	.011	.795	.325	.300	T.P.	T.P.	.160	.030	15°	5	6	.080	.060	
MO001AH	.140	.015	.014	.044	.008	.730	.290	.240	.100	.300	.115	.000	0°	14	0	.050	.055	1,2,10
NOTES	.180	.040	.020	.070	.012	.770	.320	.260	T.P.	T.P.	.155	.030	15°	5	6	.085	.085	
MO001AJ	.090	.030	.015	.035	.008	.685	.300	.240	.100	.300	.100	.000	0°	14	0	.060	.045	1,2,10
NOTES	.140	.070	.023	.055	.012	.760	.325	.285	T.P.	T.P.	.150	.030	15°	5	6	.090	.090	
MO001AK	.090	.020	.015	.035	.008	.800	.300	.240	.100	.300	.100	.000	0°	16	0	.060	.040	1,2,10
NOTES	.140	.070	.023	.055	.012	.840	.325	.285	T.P.	T.P.	.150	.030	15°	5	6	.080	.080	
MO001AL	.160	.020	.015	.044	.008	.815	.290	.240	.100	.300	.120	.000	0°	16	0	.050	.052	1,2,10
NOTES	.200	.045	.020	.070	.012	.890	.350	.260	T.P.	T.P.	.150	.030	15°	5	6	.085	.095	

MO004



NOTES :

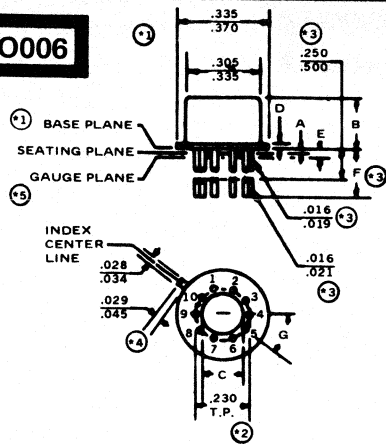
1. Refer to Rules for Dimensioning Peripheral Lead Outlines.
2. Leads within .005 radius of True Position (TP) at maximum material condition.
3. N is the maximum quantity of lead positions.
4. Z and Z₁ determine a zone within which all body and lead irregularities lie.
5. Controlling Dimensions: INCH

	A	B	C	e	E	H	L	N	Q	S	Z	Z1	NOTES
MO004AA	.008	.015	.003	.050	.200	.600	.150	14	.005	.000	.300	.350	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.025	5	5	
MO004AB	.008	.013	.003	.050	.200	.600	.150	14	.005	.000	.300	.350	1,2,6
NOTES	.100	.017	.006	TP	.300	1.000	.350	4	.050	.025	5	5	
MO004AC	.008	.015	.003	.050	.200	.600	.150	14	.000	.000	.300	.350	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.097	.025	5	5	
MO004AD	.008	.015	.003	.050	.200	.600	.150	10	.005	.000	.300	.300	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.050	5	5	
MO004AE	.008	.015	.003	.050	.200	.600	.150	10	.005	.000	.300	.250	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.025	5	5	
MO004AF	.008	.015	.003	.050	.200	.600	.150	14	.005	.000	.300	.400	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.050	5	5	
MO004AG	.008	.015	.003	.050	.200	.600	.150	14	.005	.000	.300	.400	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.025	5	5	
MO004AH	.008	.015	.003	.050	.200	.600	.150	16	.005	.000	.300	.450	1,2,6
NOTES	.100	.019	.006	TP	.300	1.000	.350	4	.050	.050	5	5	

23. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

MO006

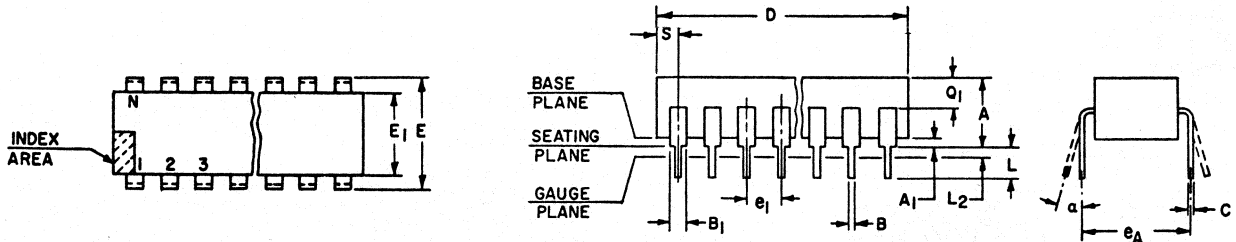


NOTES:

1. Refer to Rules for Dimensioning Axial Lead Product Outlines.
2. Leads at gauge plane within .007" radius of True Positions (TP) with maximum material condition.
3. Dim. .016" Min. and .019" Max. applies between .000" Min. and .050 Max. and .250" Min. and .500" Max. Dim. .016" Min. and .021" Max. applies between .250" Min. and .500" Max. and .500" from seating plane. Diameter is uncontrolled in .000" Min. and .050" Max. and .500".
4. Measured from Max. .370".
5. One (1) allowable missing lead.

	A	B	C	D	E	F	G	NO. OF LEADS
MO006AA	.010 .040	.240 .260	.140 .160	.040 MAX	.050 MAX	.500 MIN	36° TP	10
MO006AB	0 0	.240 .260	0 0	MAX MAX	.050 MAX	.500 MIN	36° TP	10
MO006AC	0 0	.140 .160	0 0	.040 MAX	.050 MAX	.500 MIN	36° TP	10
MO006AD	.010 .140	.165 .185	.140 .160	.040 MAX	.050 MAX	.500 MIN	36° TP	10
MO006AE	.010 .040	.165 .185	.140 .160	.040 MAX	.050 MAX	.500 MIN	30° TP	12
MO006AF	0 0	.165 .185	0 0	.020 .040	.000 .050	.500 .562	36° TP	10
MO006AG	0 0	.165 .185	0 0	.040 .050	.000 .562	.500 TP	30° TP	12

MO015

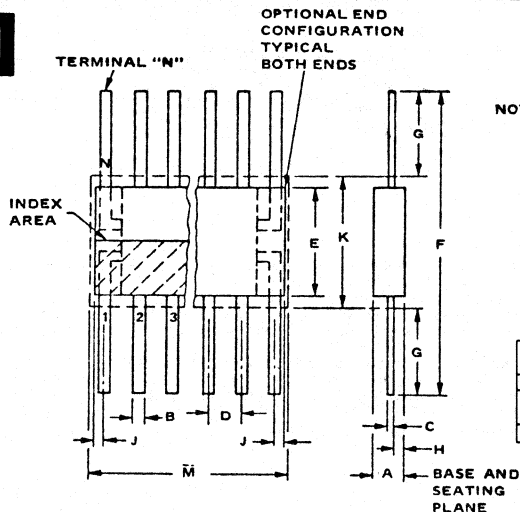


NOTES:

1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .127 radius of True Position (TP) at gauge plane with maximum material condition and unit installed.
4. e_1 and e_A applies in zone L_2 when unit installed.
5. α applies to spread leads prior to installation.
6. N is the maximum quantity of lead positions.
7. N_1 is the allowable quantity of missing leads.
8. E_1 does not include mold flash.
9. Outlines on which the seating plane is coincident with the base plane ($A_1 = 0$) terminal lead stand-offs are not required, and B_1 may equal B along any part of the lead above the seating/base plane.
10. Controlling Dimension: INCH

	A	A1	B	B1	C	D	E	E1	e1	eA	L	L2	a	N	N1	Q1	S	NOTES
MO015AA	.120 .250	.020 .070	.016 .020	.028 .070	.008 .012	1.200 1.290	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	24	0	.040 .075	.040 .100	1,2,10
MO015AB	.120 .250	.020 .070	.016 .020	.028 .070	.008 .012	.700 1.840	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	18	0	.040 .075	.040 .100	1,2,10
MO015AC	.120 .250	.020 .070	.016 .020	.028 .070	.008 .012	1.800 1.890	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	36	0	.065 .105	.040 .100	1,2,10
MO015AD	.100 .200	.000 .070	.015 .020	.015 .055	.008 .012	1.170 1.210	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	24	0	.020 .060	.025 .050	1,2,10
MO015AE	.100 .200	.000 .070	.015 .020	.015 .055	.008 .012	.770 1.810	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	18	0	.020 .080	.025 .050	1,2,10
MO015AF	.100 .200	.000 .070	.015 .020	.015 .055	.008 .012	1.770 1.810	.600 .625	.515 .580	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	36	0	.020 .080	.025 .050	1,2,10
MO015AG	.090 .200	.020 .070	.014 .020	.050 .054	.008 .012	1.220 1.290	.600 .625	.520 .550	.100 TP	.600 TP	.125 .150	.000 .030	0° 15°	24	0	.020 .060	.050 .100	1,2,10
MO015AH	.090 .200	.000 .070	.015 .020	.015 .055	.008 .012	1.380 1.420	.600 .625	.485 .515	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	28	0	.020 .070	.040 .070	1,2,10
MO015AJ	.100 .200	.000 .070	.015 .020	.015 .055	.008 .012	1.980 2.020	.600 .625	.485 .515	.100 TP	.600 TP	.100 .200	.000 .030	0° 15°	40	0	.020 .070	.040 .070	1,2,10
MO015AK	.145 .175	.030 .050	.015 .020	.040 .050	.008 .015	1.240 1.260	.600 .625	.540 .560	.100 TP	.600 TP	.100 .140	.000 .030	0° 15°	24	0	.045 .075	.055 .085	1,2,10
MO015AL	.090 .140	.020 .065	.015 .020	.045 .055	.008 .012	1.350 2.020	.600 .625	.480 .520	.100 TP	.600 TP	.100 .180	.000 .030	0° 15°	28	0	.020 .080	.020 .060	1,2,10
MO015AM	.090 .140	.020 .065	.015 .020	.045 .055	.008 .012	1.950 2.020	.600 .625	.480 .520	.100 TP	.600 TP	.100 .180	.000 .030	0° 15°	40	0	.020 .080	.020 .060	1,2,10
MO015AN	.090 .150	.020 .065	.015 .020	.045 .055	.008 .012	1.150 1.220	.600 .625	.480 .520	.100 TP	.600 TP	.100 .180	.000 .030	0° 15°	24	0	.020 .080	.020 .060	1,2,10

MO019



NOTES:

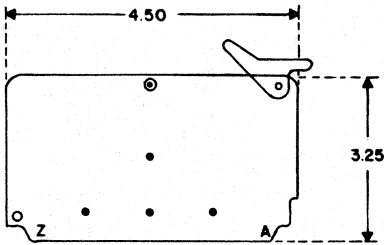
1. REFER TO APPLICABLE SYMBOL LIST.
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5-1973.
3. LEADS WITHIN .005 RADIUS OF TRUE POSITION (TP) AT MAXIMUM MATERIAL CONDITION.
4. N IS THE MAXIMUM QUANTITY OF LEAD POSITIONS.
5. K AND M DETERMINE A ZONE WITHIN WHICH ALL BODY AND LEAD IRREGULARITIES LIE.
6. CONTROLLING DIMENSIONS: INCH.

	A	B	C	D	E	F	G	H	J	K	M	N	NOTES
MO019AA	.008 .120	.015 .019	.003 .006	.050 TP	.300 .400	.700 1.200	.150 .400	.005 .050	.000 .050	.400	.650	24	1,2,6
MO019AB	.008 .120	.018 .022	.003 .006	.050 TP	.300 .400	.700 1.200	.150 .400	.005 .075	.000	.400	.800	28	1,2,6

23. OUTLINE DRAWINGS

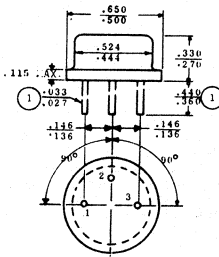
IN DRAWING NUMBER
SEQUENCE

PL10



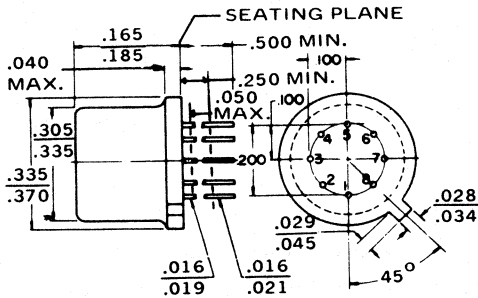
0625" THICK

TO8



TO8 Note: 1. Three Leads

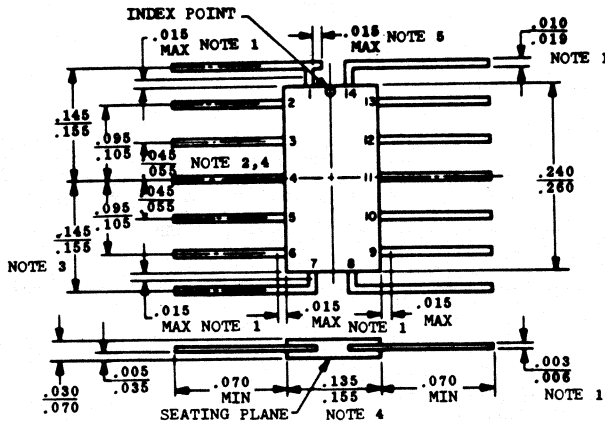
TO78



NOTES:

- (EIGHT LEADS). Maximum number of leads omitted in this outline, "three" (3). the number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.
- (ALL LEADS) Dim. .016 Min and .019 Max. applies between Dim. .050 Max. and .250 Min. Dim. .016 Min and .021 Max. applies between .500" (12.70 MM) from seating plane. Diameter is uncontrolled in .050 Max. and beyond .500" (12.70 MM) from seating plane.
- Measured from maximum diameter of the product.
- Leads having maximum diameter .019" (.483 MM) measured in gaging plane .054" (1.37 MM) + .001" (.025 MM) - .000" (.000 MM) below the seating plane of the product shall be within .007" (.178 MM) of their true position relative to a maximum width tab.
- The product may be measured by direct methods or by gage.
- Tab Centerline.

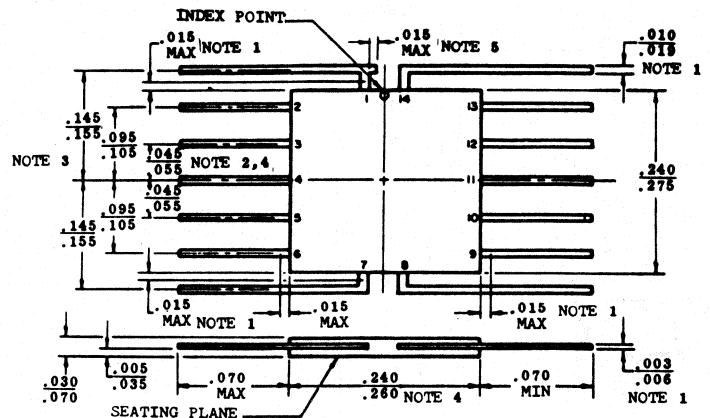
TO84



NOTES:

- Lead dimensions uncontrolled in this zone to allow for body and lead finish irregularities.
- Leads missing from their designated positions shall also be counted when numbering leads for specific applications.
- Spacing and Angle of the end leads at the point of emergence of body is not controlled.
- Lead spacing shall be measured within .030 (.762 mm) from the point of emergence from the body or, as in the case of end lead, from the point where the extension of the body outline intersects the end leads.
- Mechanical Index, Optional.

TO86



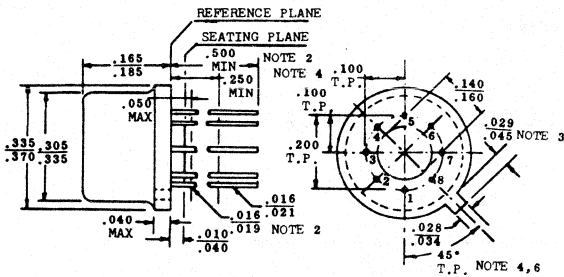
NOTES:

- Lead dimensions uncontrolled in this zone to allow for body and lead finish irregularities.
- Leads missing from their designated positions shall also be counted when numbering leads for specific applications.
- Spacing and Angle of the end leads at the point of emergence of body is not controlled.
- Lead spacing shall be measured within .030 (.762 mm) from the point of emergence from the body or, as in the case of end lead, from the point where the extension of the body outline intersects the end leads.
- Mechanical Index, Optional.

23. OUTLINE DRAWINGS

IN DRAWING NUMBER
SEQUENCE

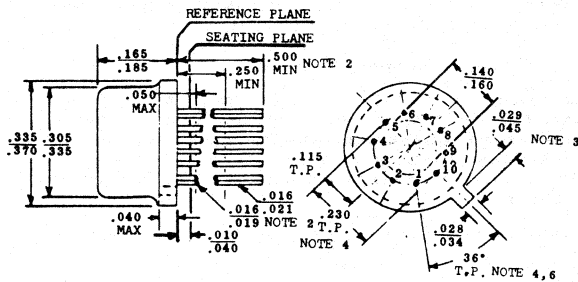
T099



NOTES:

1. (Eight Leads). Maximum number of leads omitted in this outline, "one" (1). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.
2. (All Leads) Dim. .016 Min and .019 Max applies between .050 Max and .250 Min. Dim. .016 Min and .021 Max applies between .250 Min and .500" (12.70 MM) from seating plane. Diameter is uncontrolled in Dim .050 Max and beyond .500" (12.70 MM) from seating plane.
3. Measured from maximum diameter of the product.
4. Leads having maximum diameter .019" (.483 MM) measured in gaging plane .054 (1.37 MM) + .001" (.025 MM) - .000" (.000 MM) below the seating plane of the product shall be within .007" (.178 MM) of their true position relative to a maximum width tab.
5. The product may be measured by direct methods or by gage.
6. Tab Centerline.

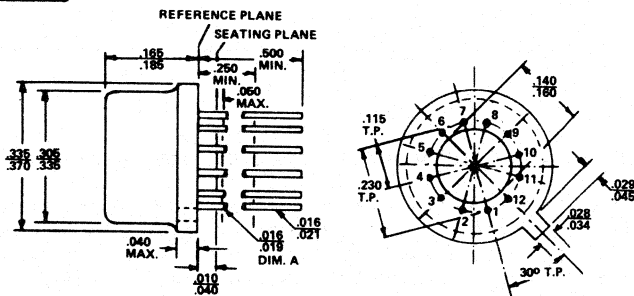
T0100



NOTES:

1. (Ten Leads). Maximum number of leads omitted in this outline, "one" (1). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.
2. (All Leads) Dim. .016 Min and .019 Max applies between .050 Max and .250 Min. Dim. .016 Min and .021 Max applies between .250 Min and .500" (12.70 MM) from seating plane. Diameter is uncontrolled in Dim .050 Max and beyond .500" (12.70 MM) from seating plane.
3. Measured from maximum diameter of the product.
4. Leads having maximum diameter .019" (.483 MM) measured in gaging plane .054 (1.37 MM) + .001" (.025 MM) - .000" (.000 MM) below the seating plane of the product shall be within .007" (.178 MM) of their true position relative to a maximum width tab.
5. The product may be measured by direct methods or by gage.
6. Tab Centerline.

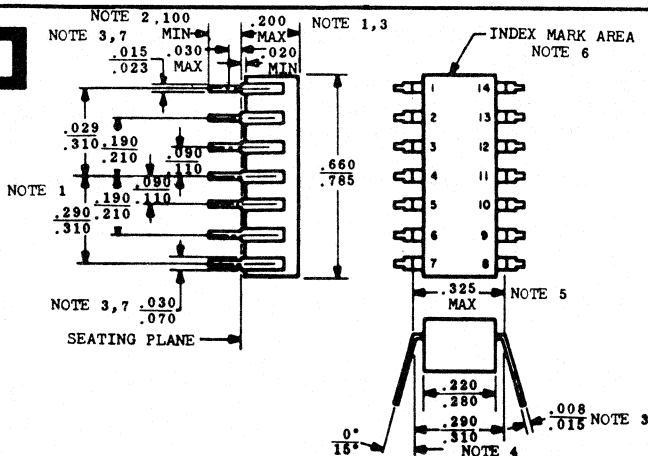
T0101



NOTES:

1. (TWELVE LEADS). MAXIMUM NUMBER OF LEADS OMITTED IN THIS OUTLINE, "ONE" (1). THE NUMBER AND POSITION OF LEADS ACTUALLY PRESENT ARE INDICATED IN THE PRODUCT REGISTRATION. OUTLINE DESIGNATION DETERMINED BY THE LOCATION AND MINIMUM ANGULAR SPACING OF ANY TWO ADJACENT LEADS.
2. (ALL LEADS). DIM. A APPLIES BETWEEN .050 MAX. AND .250 MIN. DIM. B APPLIES BETWEEN .250 MIN. AND .500" (12.70 MM) FROM REFERENCE PLANE. DIAMETER IS UNCONTROLLED IN .050 MAX. AND BEYOND .500" (12.70 MM) FROM REFERENCE PLANE.
3. MEASURED FROM MAXIMUM DIAMETER OF THE PRODUCT.
4. LEADS HAVING MAXIMUM DIAMETER .019" (.483 MM) MEASURED IN GAUGING PLANE .054" (1.37 MM) + .001" (.025 MM) - .000" (.000 MM) BELOW THE REFERENCE PLANE OF THE PRODUCT SHALL BE WITHIN .007" (.178 MM) OF THEIR TRUE POSITION RELATIVE TO A MAXIMUM WIDTH TAB.
5. THE PRODUCT MAY BE MEASURED BY DIRECT METHODS OR BY GAUGE.
6. TAB CENTERLINE.

T0116



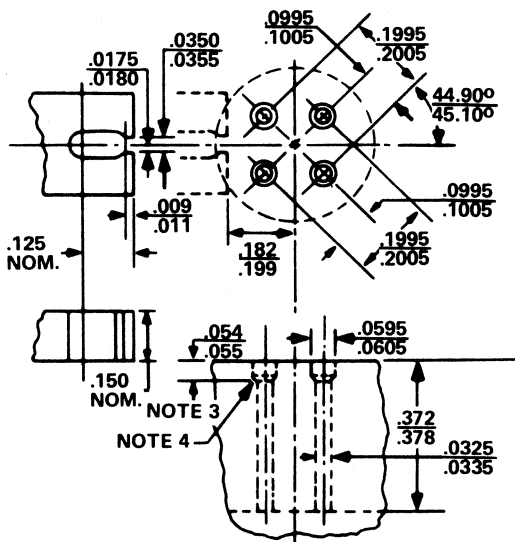
NOTES:

1. Leads missing from their designated positions shall be counted when numbering leads for special applications.
2. Lead spacing shall be measured within this zone.
3. Typical all leads.
4. Installed position of lead centers.
5. Overall installed width.
6. Index to be visible from top, this end only.
7. Lead transition geometry from Dia .015 min to .023 max to Dia .030 min to .070 max optional on body side of seating plane.

JEDEC GAUGE DESIGNATIONS

The Gauge Designations below are referenced in the JEDEC TO Outline Drawings

GS1



NOTES:

1. THE LOCATION OF THE TAB LOCATOR WITHIN THE LIMITS INDICATED WILL BE DETERMINED BY THE TAB AND FLANGE DIMENSIONS OF THE DEVICE BEING CHECKED.

2. THE FOLLOWING GAUGING PROCEDURE SHALL BE USED:

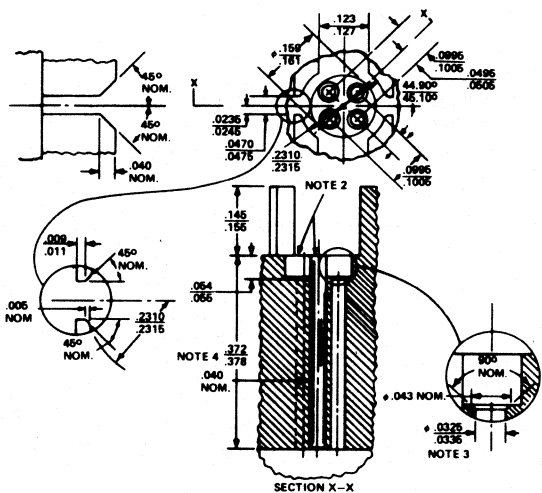
THE DEVICE BEING MEASURED SHALL BE INSERTED UNTIL ITS SEATING PLANE IS .125" (3.18 MM) \pm .010" (.254MM) FROM THE SEATING SURFACE OF THE GAUGE. A FORCE OF $8 \pm .5$ OZ. SHALL THEN BE APPLIED PARALLEL AND SYMMETRICAL TO THE DEVICE'S CYLINDRICAL AXIS. WHEN EXAMINED VISUALLY AFTER THE FORCE APPLICATION (THE FORCE NEED NOT BE REMOVED) THE SEATING PLANE OF THE DEVICE SHALL BE SEATED AGAINST THE GAUGE.

THE USE OF A PIN STRAIGHTENER PRIOR TO INSERTION IN THE GAUGE IS PERMISSIBLE.

3. GAUGING PLANE.

4. DRILL ANGLE.

GS2



NOTE 1: THE FOLLOWING GAUGING PROCEDURE SHALL BE USED:

THE DEVICE BEING MEASURED SHALL BE INSERTED UNTIL ITS SEATING PLANE IS $0.125" \pm .010"$ FROM THE SEATING SURFACE OF THE GAUGE. A FORCE OF 8 ± 0.5 OZ. SHALL THEN BE APPLIED PARALLEL AND SYMMETRICAL TO THE DEVICE'S CYLINDRICAL AXIS. WHEN EXAMINED VISUALLY AFTER THE FORCE APPLICATION (THE FORCE NEED NOT BE REMOVED) THE SEATING PLANE OF THE DEVICE SHALL BE SEATED AGAINST THE GAUGE.

THE USE OF A PIN STRAIGHTENER PRIOR TO INSERTION IN THE GAUGE IS PERMISSIBLE.

A SPACER MAY BE USED TO OBTAIN THE $0.125"$ DISTANCE FROM THE GAUGE SEAT PRIOR TO FORCE APPLICATION.

NOTE 2: THESE SURFACES TO BE PARALLEL AND IN SAME PLANE WITHIN $\pm .001"$

NOTE 3: FOUR HOLES.

NOTE 4: PRESSED IN.

24. PIN CONNECTIONS

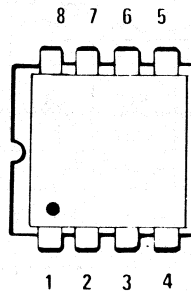
IN PIN NUMBER SEQUENCE

REGISTRY CONTROL NUMBERS APPLICABLE TO SECTION 24. PIN CONNECTION CHARTS

Registry Control #'s

- ① - Can Type Only.
- ② - Also Available in Can Type by some Mfgs. See Type #Outline Dr.
- ③ - Flat Pack.
- ④ - Also Available in Flat Pack by some Mfgs. See Type #Outline Dr.
- ⑤ - Pin 13 is also the programming pin.
- ⑥ - Pin 15 is also the programming pin.
- ⑦ - CS1/CS1/NC Programable CS.
- ⑧ - CS2/CS2/NC Programable CS.
- ⑨ - CS3/CS3/NC.
- ⑩ - Connect Substrate Externally to Ground.
- ⑪ - PIN 18, 20, 21 has optional CS & NC.
- ⑫ - PIN 20 is also programming pin.
- ⑬ - PIN 20, 21 has optional CS & NC.
- ⑭ - PIN 20 has optional CS & NC.
- ⑮ - PIN 1-6 & 7-11 & 23 all common.
- ⑯ - PIN 1-11 all common.
- ⑰ - PIN 18 & 20 has optional CS & NC.
- ⑱ - PIN 22 - Norm. Open; Conn to VCC During Prog.
- ⑲ - Type #MD4430 has RST input gated w/clock input for Sync RST
- ⑳ - AR Tied to VIL if 0-Suffix, VIH if 1-Suffix
- ㉑ - Option: Either S or Non-Clocked Chip Enable/Power Down (E)

PN8



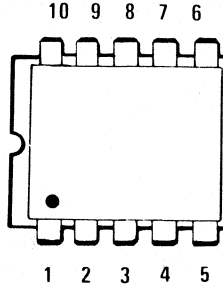
Pin	a①	b②	c	d③	e④	f⑤	g⑥	h⑦	i	j	k	m	n	o
1	DIO	DinA	VCC	01	NC	InA	NC	In1	NC	02	OUT	RCIRC	OUT	∅2
2	VM	DoutA	DinA	In1	In	OUTA	In	OUT1	OUT	I2	∅2	In1	VGG	OUT
3	VSS	Clk	DoutA	∅1	∅1	OIN	∅1	∅	∅In	∅2	NC	OUT1	S	R
4	VGG	VCC	Clk	VCC	VCC	VSS	VSS	VSS	VSS	VDD	VDD	VGG	VDD	VDD
5	Clk	VGG	VGG	02	OUT	Oout	OUT	VGG	Oout	01	In	Oin	I0	W
6	C1	DoutB	DoutB	In2	NC	OUTB	NT.RES	OUT2	In	I1	O1	OUT2	CP	In
7	C2	DinB	DinB	∅2	∅2	InB	∅2	In2	In	∅1	NC	In2	I1	∅1
8	C3	VGI	VGI	VDD	VDD	VGG	VDD	VDD	VGG	VCC	VCC	VCC	VCC	VCC

Pin	p	q	r②	s	t	u	v	w						
1	RC	RC	S	∅1	CLKIn	OUT2	VP	RCIRC						
2	InA	In	InO	LC	OUT	In2	VDD	In						
3	OUTA	OUT	OUTO	VSS	RE	∅2	∅	OUT						
4	VGG	VSS	GND	OUT	VDD	VDD	C1	VSS						
5	CP	CP	∅	∅2	WR	OUT1	C2	∅In						
6	OUTB	VGG	OUT1	VGG	IN	In1	C3	VGG						
7	InB		In1	In	CLKO	∅1	VSS	NC						
8	VCC	VDD	VCC	VDD	VCC	VCC	I/O	VDD						

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

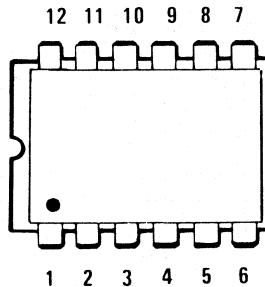
PN10



Pin	a [ⓐ]	b	c	d	e	f [ⓑ]	g [ⓐ]	h										
1	InA	ϕ out	In2	ADD1	InA	InA	InA	NC										
2	ϕ inA	In1	OUT2	In	OUTA	LCA	OUTA	08										
3	ϕ outA	OUT1	LGTHSEL	OUT	InB	OUTA	InB	18										
4	OUTA	In2	OUT1	ADD2	OUTB	ϕ in	OUTB	04										
5	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VDD										
6	ϕ outB	OUT2	In1B	ϕ in	CP	ϕ out	Oin	NC										
7	OUTB	In3	In1A	ϕ out	VGG	OUTB	VGG	14										
8	ϕ inB	OUT3	ϕ out	CS		LCB	NC	ϕ 1										
9	InB	Oin	ϕ in	WRC	VDD	InB	VDD	ϕ 2										
10	VGG	VGG	VGG	VGG	RC	VGG	RCIRC	GND										

Registry Control #'s [ⓐ] - Can Type Only. [ⓑ] - Also Available in Can Type by some Mfgs. See Type #Outline Dr.

PN12

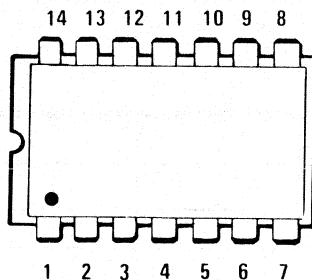


Pin	a																	
1	ϕ 1																	
2	ϕ 2																	
3	C1																	
4	I1																	
5	O1(60)																	
6	O1(64)																	
7	VDD																	
8	C2																	
9	I2																	
10	O2(60)																	
11	O2(64)																	
12	GND																	

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN14



Pin	a	b	c	d	e	f	g	h	i	j	k	m	n	o
1	X0	Y1	X3	R1	S1	A	DoutB	NC	VCC	VCC	DP1	SI	SA	Q6
2	X1	Y2	X2	R2	IA	B	DinB	NC	DoutB	NC	NC	InB	SB	Q7
3	X2	Y3	X1	R3	IB	QA	VGI	DinA	DinB	DinB	CLK	InC	Q1	Q8
4	X3	VCC	US	R4	IC	QB	NC	DoutA	VGI	VGI	DP5	VCC	Q2	VCC
5	W1	X0	Y1	GND	ID	QC	DinA	CLK	DinA	DinA	DP10	InD	Q3	SA
6	$\overline{S1}$	X1	Y2	O1	BA	QD	NC	VCC	DoutA	DoutA	DP14	MCON	Q4	SB
7	GND	X2	Y3	D1	GND	GND	DoutA	NC	CLK	NC	VSS	CLK1	GND	Q1
8	$\overline{S0}$	X3	Y4	W4	TSL	CLK	CLK	NC	NC	NC	Q17	CLK2	CLK	Q2
9	W0	W0	WL	W3	TSR	CLR	NC	NC	NC	NC	Q18	OUTD	CLR	Q3
10	Y3	GND	OS	W2	Q4	QE	NC	VGG	NC	CLK	Q13	OUTC	Q5	Q4
11	Y2	$\overline{S0}$	QL	W1	Q3	QF	VCC	DoutB	NC	VGG	Q8	GND	Q6	GND
12	Y1	$\overline{S1}$	QH	VCC	Q2	QG	VGG	DinB	VGG	DinB	Q9	OUTB	Q7	CLK
13	Y0	W1	WH	D2	Q1	QH	NC	VGI	NC	NC	Q4	OUTA	Q8	CLR
14	VCC	Y0	X4	O2	VSS	VCC	NC	NC	NC	NC	VDD	InA	VCC	Q5

Pin	p	q	r	s	t	u	v	w	x	y	z	aa	ab	ac
1	CLK1	CLK	A	$\overline{\phi 12}$	$\overline{\phi 12}$	O1	VCC	NC	SI	SI	DS	Q63C	A	DA
2	In1	PO5	B	NC	NC	O2	Dout2	NC	InA	InB	P0	Q63D	B	NC
3	NC	PO6	Q0	I2	I2	O3	Dout1	NC	InB	InC	P1	\overline{CPD}	QA	\overline{CP}
4	NC	PO7	Q1	O2(44)	O2	O4	VGI	NC	InC	VCC	P2	DD	QB	DC
5	$\overline{CLK1}$	PO8	Q2	O2(48)	NC	O5	NC	VCC	InD	InD	P3	\overline{CPC}	QC	DB
6	OUT1	NC	Q3	NC	NC	O6	Din1	NC	MCON	MCON	S	DC	QD	DD
7	VDD	VDD	GND	GND	GND	GND	CLK	NC	GND	CLK1	GND	VSS	GND	VSS
8	OUT2	R	CP	$\overline{\phi 11}$	$\overline{\phi 11}$	I6	Din2	NC	CLK2	CLK2	$\overline{CP2}$	Q63B	CLK	O3D
9	$\overline{CLK2}$	SI	MR	$\overline{\phi 2}$	$\overline{\phi 2}$	I5	Din3	CLK	CLK1	OUTQD	$\overline{CP1}$	DA	CIR	O4D
10	NC	PO1	Q4	NC	NC	I4	NC	GND	OUTQD	OUTQC	Q3	\overline{CPA}	QE	O3B
11	NC	PO2	Q5	I1	I1	I3	Din4	InB	OUTQC	GND	Q2	Q63A	QF	O3C
12	In2	PO3	Q6	O1(44)	O1	I2	VGG	InA	OUTQB	OUTQB	Q1	DB	QG	O4C
13	CLK2	PO4	Q7	O1(48)	NC	I1	Dout4	QH	OUTQA	OUTQA	Q0	\overline{CPB}	QH	O3A
14	GND	GND	VCC	VDD	VDD	VDD	Dout3	\overline{QH}	VCC	InA	VCC	VDD	VCC	VDD

PN14(Cont.)

24. PIN CONNECTIONS

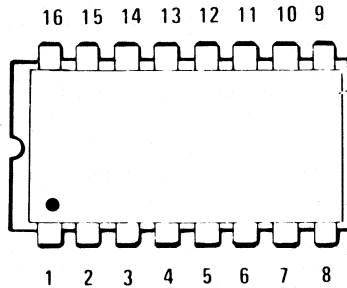
IN PIN NUMBER SEQUENCE

PN14

PN14(Cont.)

Pin	ad	ae	af											
1	DA	R/A-	D1											
2	NC	GEN-	NC											
3	\overline{CP}	GEN+	Clk											
4	DB	XFer-	D2											
5	DC	CY1	D3											
6	DD	CY2	D4											
7	VSS	CX2	VSS											
8	Q3D	CX1	D4+4											
9	Q4D	XFer+	D4+5											
10	Q3C	R/A+	D3+4											
11	Q3B	DET1-	D2+4											
12	Q4B	DET2-	D2+5											
13	Q3A	DET2+	D1+4											
14	VDD	DET1+	VDD											

PN16



Pin	a	b	c	d	e	f	g	h	i	j	k	m	n	o
1	A9	VDD	A1	ADD0	A6	A	A1	CS	A3	VBB	VBB	A6	\overline{CS}	Q1
2	$\overline{C3}$	$\overline{\phi 1}$	A0	\overline{CE}	A8	ME	A0	A0	A2	Din	Din	A5	A0	Q0
3	W	A3	$\overline{E1}$	\overline{WE}	A7	WE	CS1	A1	A1	\overline{W}	\overline{W}	R/W	A1	\overline{CE}
4	D1	A2	$\overline{E2}$	Din1	VGG	D1	CS2	A2	A0	\overline{RAS}	\overline{RAS}	A1	A2	D1
5	$\overline{O1}$	A1	$\overline{E3}$	OUT1	VSS	S1	CS3	A3	A5	A0	A0	A2	A3	D0
6	D2	A0	DO	Din2	A5	D2	D0	A4	A6	A2	A2	A3	A4	A3
7	$\overline{O2}$	$\overline{\phi 2}$	A4	OUT2	AV	S2	A4	Dout	A7	A1	A1	A4	Dout	A2
8	GND	VSS	GND	GND	VCC	GND	GND	VSS	VSS	VDD	VDD	A0	GND	VEE
9	$\overline{O3}$	A6	A5	OUT3	A3	S3	A5	A5	DI/01	VCC	VCC	GND	A5	A1
10	D3	A7	A6	Din3	A2	D3	A6	A6	DI/02	A5	A5	VCC	A6	A0
11	$\overline{O4}$	A5	A7	OUT4	A4	S4	A7	A7	DI/03	A4	A4	Din	A7	D2
12	D4		\overline{WE}	Din4	DI	D4	WE	A8	DI/04	A3	A3	Dout	A8	D3
13	A3	A8	DI	ADD3	DO	D	DI	A9	\overline{CE}	\overline{CS}	A6	\overline{CE}	A9	\overline{WE}
14	A2	WE	A3	ADD2	VDD	C	A3	R/W	\overline{WE}	Dout	Dout	A9	\overline{WE}	Q3
15	A1	\overline{CS}	A2	ADD1	R/W	B	A2	Din	A4	CAS	\overline{CAS}	A8	Din	Q2
16	VCC	I/O	VCC	VCC	CS	VCC	VCC	VDD	VCC	VSS	VSS	A7	VCC	VCC

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN16

PN16(Cont.)

Pin	p	q	r	s	t	u	v	w	x	y	z	aa	ab	ac
1	A	D2	A6	A0	A0	VCC1	A1	A6	A6	A1	ADDinA	ADDinA	A0	VBB
2	B	D3	A5	\overline{CS}	\overline{CS}	A2	A2	A5	A5	A0	\overline{ME}	ADDinB	\overline{ME}	Din
3	$\overline{CE1}$	$\overline{D4}$	R/W	\overline{WE}	\overline{W}	A1	Din	\overline{WE}	\overline{WE}	CE1	\overline{WE}	$\overline{CE1}$	\overline{WE}	W
4	$\overline{CE2}$	Rr	A1	D0	D1	A0	\overline{WE}	A1	A1	CE2	Din1	$\overline{CE2}$	D1	\overline{RAS}
5	$\overline{CE3}$	\overline{Ra}	A2	O0	O1	A3	A3	A2	A2	CE3	$\overline{Dout1}$	$\overline{CE3}$	\overline{ST}	A0
6	\overline{Dout}	$\overline{Q4}$	A3	D1	D2	A4	A4	A3	A3	D0	Din2	Dout	D2	A2
7	D	Q3	A4	O1	O2	A5	A5	A4	A4	A4	$\overline{Dout2}$	ADDinD	$\overline{S2}$	A1
8	GND	GND	A0	GND		VEE	VSS	A0	A0	GND	GND	GND	GND	VGG
9	E	Q2	VSS	O2	O3	NC	A6	GND	GND	A5	$\overline{Dout3}$	ADDinE	S3	VCC
10	F	Q1	VDD	D2	D3	A6	Dout	VCC	VCC	A6	Din3	ADDinF	D3	A5
11	G	Read	Din	O3	O4	D	ST	Din	Din	A7	Dout4	ADDinG	$\overline{S4}$	A4
12	\overline{WE}	\overline{Write}	Dout	D3	D4	\overline{WE}	$\overline{CE2}$	Dout	Dout	R/W	Din4	\overline{WE}	D4	A3
13	Din	B	CS	A3	A3	$\overline{CE2}$	$\overline{CE1}$	\overline{CE}	\overline{CS}	Din	ADDinD	Din	A3	\overline{CS}
14	H	A	A9	A2	A2	$\overline{CE1}$	A7	A9	A9	A3	ADDinC	ADDinH	A2	Dout
15	C	D1	A8	A1	A1	Q	A0	A8	A8	A2	ADDinB	ADDinC	A1	\overline{CAS}
16	VCC	VCC	A7	VCC		VCC2	VDD	A7	A7	VCC	VCC	VCC	VCC	VSS

Pin	ad	ae	af	ag	ah	ai	aj	ak	am	an	ao	ap	aq	ar [⊙]
1	\overline{CE}	A3	A6	VBB	A0	A0	A0	\overline{E}	\overline{S}	ADG	A	X4	A0	\overline{WE}
2	A0	A2	A8	Din	\overline{CS}	A1	A1	A0	A0	ADF	FM	X3	A1	Q3
3	A1	A1	A7	\overline{WE}	\overline{WE}	\overline{ET}	\overline{ST}	A1	A1	ADE	FW	X2	A2	Q2
4	A2	A0	VD	\overline{RAS}	D0	$\overline{E2}$	$\overline{S2}$	A2	A2	ADD	D1	X1	A3	VCC
5	A3	A5	VCC	A0	$\overline{Q0}$	$\overline{E3}$	$\overline{S3}$	A3	A3	ADA	Q1	US	$\overline{CS1}$	Q1
6	A4	A6	A5	A2	D1	$\overline{D0}$	$\overline{D0}$	A4	A4	ADB	D2	Y1	$\overline{CS2}$	Q0
7	Dout	A7	A1	A1	$\overline{Q1}$	A3	A3	DO	DO	ADC	Q2	Y2	$\overline{CS3}$	\overline{CS}
8	GND	GND	VDD	VDD	VSS	GND	GND	GND	GND	GND	OS	Y3	VEE	D1
9	A5	I/O1	A3	VCC	$\overline{Q2}$	A4	A4	A5	A5	I/O4	Q3	Y4	A4	D0
10	A6	I/O2	A2	A5	D2	A5	A5	A6	A6	I/O3	D3	WL2	A5	A3
11	A7	I/O3	A4	A4	$\overline{Q3}$	A6	A6	A7	A7	I/O2	Q4	WL1	A6	A2
12	A8	I/O4	DI	A3	D3	\overline{W}	\overline{W}	A8	A8	I/O1	D4	OS	A7	VEE
13	A9	\overline{CE}	D0	A6	A3	DI	DI	A9	A9	OE	D	QL	DI	A1
14	\overline{WE}	R/W	D0	Dout	A2	A7	A7	\overline{W}	\overline{W}	W	C	QH	\overline{WE}	A0
15	Din	A4	R/W	\overline{CAS}	A1	A2	A2	DI	DI	ADH	B	WH2	DO	Q1
16	VCC	VCC	CS	VSS	VDD	VCC	VCC	VCC	VCC	VCC	US	WH1	VCC	D3

PN16(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN16

PN16(Cont.)

Pin	as	at	au	av	aw	ax	ay	az	ba	bb	bc	bd	be	bf
1	Q1	Dout	VBB	VBB	A0	A6	A0	\overline{CE}	A3	A0	A0	A0	VBB	SinA
2	Q0	A0	Din	D	\overline{CS}	A5	A1	AX0	A2	\overline{CS}	\overline{CS}	\overline{CS}	D	\overline{CE}
3	\overline{CS}	A1	\overline{WE}	\overline{W}	\overline{WE}	R/W	A2	AX1	A1	\overline{WE}	\overline{WE}	\overline{WE}	\overline{W}	\overline{RW}
4	D1	A2	\overline{RAS}	\overline{RAS}	D1	A1	VSS	AX2	A0	D0	Din1	Din1	\overline{RE}	Din1
5	D0	A3	A0	A0	O1	A2	VDD	AX3	A5	O0	Dout1	Dout1	A0	$\overline{Yout1}$
6	A3	A4	A2	A2	D2	A3	A3	AX4	A6	D1	Din2	Din2	A2	Din2
7	A2	A5	A1	A1	O2	A4	A4	Q	A7	O1	Dout2	Dout2	A1	$\overline{Yout2}$
8	VEE	VEE	VDD	VDD	GND	A0	NC	USS	GND	GND	GND	GND	VDD	GND
9	A1	A6	VCC	VCC	O3	VSS	A5	AY0	I/O1	O2	Dout3	Dout3	VCC	$\overline{Yout3}$
10	A0	A7	A5	A5	D3	VCC	A6	AY1	I/O2	D2	Din3	Din3	A5	Din3
11	D2	A8	A4	A4	O4	DI	A7	AY2	I/O3	O3	Dout4	Dout4	A4	$\overline{Y4}$
12	D3	A9	A3	A3	D4	D0	Din	AY3	I/O4	D3	Din4	Din4	A3	Din4
13	\overline{WE}	\overline{WE}	\overline{CS}	A6	A3	\overline{CS}	Dout	AY4	\overline{CE}	A3	A3	A3	A6	SinD
14	Q3	\overline{CS}	Dout	Q	A2	A9	Dout	R/W	R/W	A2	A2	A2	Q	SinC
15	Q2	Din	\overline{CAS}	\overline{CAS}	A1	A8	R/W	D	A4	A1	A1	A1	\overline{CE}	SinB
16	VCC	VCC	VSS	VSS	VCC	A7	CE	UDD	VCC	VCC	VCC	VCC	VSS	VCC

Pin	bg	bh	bi	bj	bk	bm	bn	bo	bp	bq	br	bs	bt	bu
1	\overline{E}	A3	VBB	VCC1	VCC1	VCC	NC	\overline{RFR}	VCC0	A0	$\overline{O1}$	Yout1	A6	A6
2	A0	A2	Din	A0	A0	A0	D	D	A0	A1	$\overline{O2}$	Yout2	A5	A5
3	A1	A1	\overline{WE}	A1	A1	A1	\overline{W}	\overline{W}	A1	$\overline{CS1}$	$\overline{O3}$	Yout3	A4	A4
4	A2	A0	\overline{RAS}	A2	$\overline{CS1}$	A2	\overline{RAS}	\overline{RAS}	$\overline{CS1}$	$\overline{CS2}$	$\overline{O4}$	Yout4	A3	A3
5	A3	A5	A0	A3	$\overline{CS2}$	A3	A0	A0	$\overline{CS2}$	$\overline{CS3}$	$\overline{O5}$	Yout5	A0	A0
6	A4	A6	A2	A4	A2	A4	A2	A2	A2	Dout	$\overline{O6}$	Yout6	A1	A1
7	Q	A7	A1	A5	A3	A5	A1	A1	A3	A2	$\overline{O7}$	Yout7	A2	A2
8	GND	GND	VDD	VEE	VEE	VEE	VDD	VCC	VEE	GND	GND	GND	GND	GND
9	A5	DQ0	A7	NC	A4	NC	A7	A7	A4	A3	$\overline{O8}$	Yout8	O4	O5
10	A6	DQ1	A5	A6	A5	A6	A5	A5	A5	A4	A0	BSA	O3	O4
11	A7	DQ2	A4	Din	NC	DIN	A4	A4	NC	A5	A1	BSB	O2	O3
12	A8	DQ3	A3	\overline{WE}	\overline{WE}	\overline{WE}	A3	A3	\overline{WE}	\overline{WE}	A2	BSC	O1	O2
13	A9	\overline{E}	A6	$\overline{CS2}$	Din	$\overline{CS0}$	A6	A6	Din	Din	A3	BSD	\overline{ET}	O1
14	\overline{W}	\overline{W}	Dout	$\overline{CS1}$	NC	$\overline{CS1}$	Q	Q	NC	A6	A4	E	A8	BSE1
15	D	A4	\overline{CAS}	Dout	Dout	Dout	\overline{CAS}	\overline{CAS}	Dout	A7	\overline{E}	EG	A7	A7
16	VCC	VCC	VSS	VCC2	VCC2	VCC0	VSS	VSS	VCC	VCC	VCC	VCC	VCC	VCC

PN16(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN16

PN16(Cont.)

Pin	bv	bw	bx	by	bz	ca	cb	cc	cd	ce	cf	cg	ch	ci [Ⓞ]
1	A6	O1	A6	A6	A6	VCC	A0	A6	A6	A3	A6	O1	D0	A6
2	A5	O2	A5	A5	A5	A1	A1	A5	A5	A2	A5	O2	D1	A5
3	A4	O3	A4	A4	A4	A2	A2	A4	A4	A1	A4	O3	D2	A4
4	A3	O4	A3	A3	A3	A0	A3	A3	A3	B1	A3	O4	D3	A3
5	A0	O5	A0	A0	A0	A6	CS0	A0	A0	B2	A0	O5	D4	A0
6	A1	O6	A1	A1	A1	A5	CS1	A1	A1	B3	A1	O6	D5	A1
7	A2	O7	A2	A2	A2	A7	CS2	A2	A2	B4	A2	O7	D6	A2
8	GND	GND	GND	GND	GND	VEE	VEE	GND	GND	VCC	GND	GND	VEE	GND
9	O4	O8	O4	O4	B4	A3	A4	O4	O4	A8	B3	O8	D7	O4
10	O3	A0	O3	O3	B3	A4	A5	O3	O3	CE	B2	A0	A0	O3
11	O2	A1	O2	O2	B2	Q3	A6	O2	O2	VGG	B1	A1	A1	O2
12	O1	A2	O1	O1	B1	Q2	A7	O1	O1	A7	B0	A2	A2	O1
13	\overline{ET}	A3	\overline{CS}	A9	CI1	CE	D	CS1	CE	A6	E1	A3	A3	$\overline{CS}(P5)$
14	E2	A4	A8	A8	CI2	Q1	WE	CS2	A8	A5	E2	A4	A4	A8
15	A7	\overline{ET}	A7	A7	A7	Q0	Q	A7	A7	A4	A7	CS	\overline{CS}	A7
16	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VGI	VCC	VCC	VCC	VCC

Pin	cj [Ⓞ]	ck [Ⓞ]	cm [Ⓞ]	cn	co	cp	cq	cr	cs	ct	cu	cv	cw	cx
1	A6	A6	A6	A6	A6	O1	A6	A6	O0	A3	A6	A3	Yout1	Q1
2	A5	A5	A5	A5	A5	O2	A5	A5	O1	A2	A5	A2	Yout2	Q2
3	A4	A4	A4	A4	A4	O3	A4	A4	O2	A1	A4	A1	Yout3	Q3
4	A3	A3	A3	A3	A3	O4	A3	A3	O3	A0	A3	ALC	Yout4	Q4
5	A0	A0	A0	A0	A0	O5	A0	A0	O4	A5	A0	\overline{CLR}	Yout5	Q5
6	A1	A1	A1	A1	A1	O6	A1	A1	O5	A6	A1	LCLk	Yout6	Q6
7	A2	A2	A2	A2	A2	O7	A2	A2	O6	A7	A2	CLkC	Yout7	Q7
8	GND	GND	GND	GND	GND	GND	GND	GND	VEE	GND	GND	GND	GND	OS
9	O4	O4	O4	O4	O4	O8	O5	O4	O7	Q0	O4	DCLk	Y8	Q8
10	O3	O3	O3	O3	O3	A0	O4	O3	A0	Q1	O3	\overline{LE}	BSA	A
11	O2	O2	O2	O2	O2	A1	O3	O2	A1	Q2	O2	Out	BSB	B
12	O1	O1	O1	O1	O1	A2	O2	O1	A2	Q3	O1	\overline{OE}	BSC	C
13	$\overline{CS2}$	\overline{CS}	$\overline{CS2}/P52$	P/E1	P/E1	A3	O1	\overline{CE}	A3	\overline{S}	$\overline{CE1}$	A6	BSD	D
14	$\overline{CS1}$	A8	$\overline{CS1}/P51$	A8	E2	A4	$\overline{E1}$	A8	A4	\overline{P}	$\overline{CE2}$	A5	BSE	E
15	A7	A7	A7	A7	A7	P/E1	A7	A7	\overline{CE}	A4	A7	A4	\overline{EG}	FE
16	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	US

PN16(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN16

PN16(Cont.)

Pin	cy	cz	da	db	dc	dd	de	df	dg	dh	di	dj	dk	dm
1	\overline{MR}	\overline{CLR}	OUT1	ϕ_{out}	ϕ_{out}	ϕ_{12}	I1	CLR	NC	NC	PAR18	S/L	IA1	T
2	J	J	NC	NC	NC	ϕ_{11}	C1	Q1	In1	In	Q6	Clk	IB1	IA
3	\overline{K}	\overline{K}	In1	InA	NC	I1	O1	$\overline{Q1}$	NC	NC	Q8	E	IC1	IB
4	P0	A	ϕ_1	OUTA	InA	Y1	I2	D1	ϕ_1	ϕ_1	PAR14	F	ID1	IC
5	P1	B	VCC	InB	OUTA	Y2	C2	D2	VCC	VCC	PAR13	G	VSS	VSS
6	P2	C	OUT2	OUTB	InB	I2	O2	$\overline{Q2}$	NC	NC	PAR12	H	S1	I0
7	P3	D	NC	NC	NC	ϕ_{21}	I3	Q2	OUT2	OUT	PAR11	OH	SI	IF
8	GND	GND	In2	VSS	VSS	GND	GND	GND	NC	NC	VSS	GND	T	S
9	\overline{PE}	S/L	OUT3	NC	NC	X	C3	Clk	NC	NC	P/SCONT	OH	Q	SI
10	CP	Clk	In3	InC	NC	ϕ_{22}	O3	$\overline{Q3}$	In2	NC	Clk	SERin	R	Q5
11	$\overline{Q3}$	QD	ϕ_2	OUTC	OUTB	I3	ϕ_2	Q3	NC	NC	SI	A	ID2	QD
12	Q3	QD	VDD	InD	InC	Y3	ϕ_1	D3	ϕ_2	ϕ_2	Q7	B	GND	GND
13	Q2	QC	NC	OUTD	OUTC	Y4	O3	D4	VDD	VDD	PAR15	C	IC2	QC
14	Q1	QB	OUT4	NC	NC	I4	O2	$\overline{Q4}$	NC	NC	PAR16	D	IB2	QB
15	Q0	QA	NC	ϕ_{in}	ϕ_{in}	VDD	O1	Q4	OUT1	NC	PAR17	\overline{ClkinH}	S2	QS
16	VCC	VCC	In4	VGG	VGG	I	VDD	VCC	NC	NC	VDD	VCC	IA2	R

Pin	dn	do	dp	dq	dr \odot	ds	dt	du	dv	dw	dx	dy	dz	ea
1	RCLin	B0	PI8		DL	CL	Q0	\overline{E}	\overline{E}	\overline{E}	I-3	VRB	RC	VGG
2	Clk	B1	Q6	Q2	Q0	D	T/C	\overline{CC}	Q0	Q0	I-2	Din	InA	IR
3	NC	B2	Q8	Q3	Q1	RC	\overline{K}	Q0	$\overline{Q0}$	D0	I-1	Rin		SI
4	NC	ZB	PI4	C		REC	J	Q1	D0	D1	I0	\overline{RC}	OUTB	D0
5	NC	ZC	PI3	DR		CL2	R	Q2	D1	$\overline{Q1}$	I1	OUT	InC	D1
6	Q	C2	PI2	D3	Q2	NC	Clk	Q3	Q1	D2	I2	VDD		D2
7	\overline{Q}	C1	PI1	S2	Q3	CL2D	P/S	D	Q1	Q2	I3	VSS	OUTD	D3
8	VSS	GND	VSS		C	VSS	VSS	GND	GND	GND	GND	CP	VSS	GND
9	DELClk	C0	P/SCONT	D2	DR	NC	DPO	CP	CP	CP	S1	CP	CP	\overline{MR}
10	MC	SLE	Clk	S1	D3	CL1D	DPI	\overline{S}	Q2	Q3	S0	VR ϕ	VGG	Q3
11	NC	CP	SI	D1	S2	CL1	DP2	Q4	$\overline{Q2}$	D3	Y3	VGG	InD	Q2
12	NC	DA	Q7	D0		Q	DP3	Q5	D2	Q4	Y2	OUT	OUTC	Q1
13	NC	A2	PI5	DL	D2	CM	Q3	Q6	D3	D4	OE	\overline{RC}	InB	Q0
14	NC	A1	PI6	Q0	S1	NC	Q2	Q7	$\overline{Q3}$	D5	Y1	RIN	OUTA	OR
15	Din	A0	PI7	Q1	D1	NC	Q1		Q3	Q5	Y0	Din		S0
16	VDD	VCC	VDD		D0	VDD	VDD	VCC	VCC	VCC	VCC	VRA	VDD	VSS

PN16(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN16

PN16(Cont.)

Pin	eb	ec	ed	ee	ef	eg	eh	ei	ej	ek	em	en	eo	ep
1	S	2Clk1	L2	\overline{MR}	S	M	D0	RCIRC	LOAD	OUTDIS	$\overline{Q1}$	Q2	Clk	$\overline{1Q}$
2	Q0	2Q4	L1	$\overline{Q7}$	SI	N	Q0	inA	Clk	OUTDIS	$\overline{Q2}$	D1	GA	ID
3	D0A	1Q3	R	Q7	NSI	Q1	Y0	NC	D5	OUTA	Q2	D2	DA	2D
4	D0B	1Q2	C	DS	QA	Q2	D1	OUTB	D6	OUTB	D2	T2	QA	3-4Clk
5	D1B	1Q1	CE	D1	A	Q3	Q1	inC	D7	OUTC	D3	P	GB	VCC
6	D1A	1CLR	B	D0	QB	Q4	Y1	NC	D8	OUTD	Q3	D3	DB	3D
7	Q1	1DATA	A	CP	B	Clk	\overline{OE}	OUTB	Q	CP	$\overline{Q3}$	D4	QB	4D
8	GND	GND	VSS	GND	O5	VSS	GND	VSS	GND	GND	GND	Q8	GND	$\overline{4Q}$
9	CP	1Clk	A/BSEL	CP	C	G1	CP	\emptyset in	Q	DinDIS	$\overline{Q4}$	Q7	CLR	4Q
10	Q2	1Q4	Q	CP	QC	G2	Y2	VGG	SERin	DinDIS	Q4	Q5	QC	$\overline{3Q}$
11	D2A	2Q3	\overline{Q}	D0	D	Din4	Q2	inD	D1	InD	D4	Q6	DC	3Q
12	D2B	2Q2	L32	D1	QD	Din3	D2	OUTC	D2	InC	C	\emptyset	GC	GND
13	D3B	2Q1	L16	DS	\overline{R}	Din2	Y3	inB	D3	InB	\overline{R}	T1	QD	1-2Clk
14	D3A	2CLR	L8	Q7	CL	Din1	Q3	OUTA	D4	InA	D1	Q4	DD	$\overline{2Q}$
15	Q3	2DATA	L4	$\overline{Q7}$	NCL	RST	D3	NC	ClkINH	CLR	Q1	Q3	GD	2Q
16	VCC	VDD	VDD	VCC	VS	VDD	VCC	VDD	VCC	VCC	VCC	Q1	VCC	1Q

Pin	eq	er	es	et	eu	ev	ew	ex	ey	ez	fa	fb	fc	fd
1	CLK	Clk	NC	\overline{MR}	\overline{MR}	P7	P7	Q0	\overline{MR}	\overline{MR}	$\overline{\emptyset 1}$	D1	VCC	VGG
2	PI5	PI3	OUT1	Q0	Q0	O5	O5	T/ \overline{C}	Q0	Q0	O3(68)	CP	In8	SETA
3	PI6	PO3	In1	D0	$\overline{Q0}$	O7	O7	\overline{K}	$\overline{Q0}$	D0	O2(68)	NC	VGG	VGIA
4	PI7	PI4	Clk1	D1	D0	P3	P3	J	D0	D1	O4(64)	NC	OUT8	DoutA
5	PI8	PO4	Clk2	Q1	D1	P2	P2	MR	D1	Q1	O3(64)	NC	In2	DinA1
6	SO	PI5	In2	D2	Q1	P1	P1	CP	$\overline{Q1}$	D2	O2(64)	$\overline{Q63}$	OUT2	DISELA
7	NC	PO5	OUT2	Q2	Q1	P0	P0	PE	Q1	Q2	O1(64)	$\overline{Q63}$	VGI	DinA2
8	VDD	VDD	VDD	GND	GND	VSS	VSS	VSS	VSS	VSS	GND	VSS	OUT16	VCC
9	R	R	NC	CP	CP	PE	PL	P0	CP	CP	O1(68)	CQ	OUT1b	ClkA
10	SI	SI	OUT3	Q3	Q2	CP	CP	P1	$\overline{Q2}$	Q3	I1	S	In1b	SETB
11	PI1	PI1	In3	D3	Q2	DS	DS	P2	Q2	D3	I2	NC	OUT4	VGIB
12	PI2	PO1	Clk3	Q4	D2	O6	O6	P3	D2	Q4	I3	NC	In4	DoutB
13	PI3	PI2	Clk4	D4	D3	P4	P4	Q3	D3	D4	I4	NC	OUT1a	DinB1
14	PI4	PO2	In4	D5	$\overline{Q3}$	P5	P5	Q2	$\overline{Q3}$	D5	VDD	NC	Clk	DISELB
15	SP	SP	OUT4	Q5	Q3	P6	P6	Q1	Q3	Q5	VGG	D0	In1a	DinB2
16	GND	GND	GND	YCC	VCC	VDD	VDD	VDD	VDD	VDD	$\overline{\emptyset 2}$	VDD	In16	ClkB

PN16(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN16

PN16(Cont.)

Pin	fe	ff	fg	fh	fi	fj	fk	fm	fn	fo	fp	fq	fr [⊙]	fs
1	DinA1	$\overline{\text{CLR}}$	PA1	SERin	CLR	CLKB	OE	$\overline{\text{RST}}$	NC	H	$\overline{\text{R}}$	S2	Q63C	$\overline{\text{MR}}$
2	DISELA	J	PB1	A	RSSERin	Q4B	RSFTin	RSFTin	CLKINH	QF	SEr	S1	NC	DS
3	Din2	$\overline{\text{K}}$	PC1	B	A	Q3A	D0	D0	CLK	QH	A	MR	Q63D	P0
4	ClkA	P0	PD1	C	B	Q2A	D1	D1	LSFT0	D	B	CP1	$\overline{\text{CPD}}$	P1
5	VCC	P1	VCC	D	C	Q1A	D2	D2	NC	C	C	$\overline{\text{CP0}}$	DD	P2
6	SETB	P2	PE1	CLKINH	D	RSTA	D3	D3	LSFTIN	B	D	DB	$\overline{\text{CPC}}$	P3
7	VGIB	P3	SerIN	Clk	LSSErIn	DATAA	LSFTin	LSFTin	NC	A	SEI	DA	DC	S
8	DoutB	GND	Clk	GND	GND	VSS	VSS	VSS	VSS	GND	0S	VSS	VSS	GND
9	DIB1	S/L	OUT	CLR	S0	ClkA	S0	S0	RCLCON	P/S	S0	SD	Q63B	$\overline{\text{OE}}$
10	DISBLB	Clk	CLR	E	S1	Q4A	S1	S1	NC	CK	S1	$\overline{\text{Q}}$	NC	$\overline{\text{CP}}$
11	DinB2	QD	PD2	F	Clk	Q3B	Clk	Clk	RSFTin	D	T	Q	DA	Q3
12	CLKB	QD	GND	G	QD	Q2B	Q3	Q3	RSFTout	QG	QD	S32	$\overline{\text{CPA}}$	O3
13	VGG	QC	PC2	QH	QC	Q1B	Q2	Q2	L/RCON	E	QC	S16	Q63A	O2
14	SETA	QB	PB2	inH	QB	RSTB	Q1	Q1	NC	F	QB	S8	DB	O1
15	VGIA	QA	PE2	S/L	QA	DATAB	Q0	Q0	NC	G	QA	S4	$\overline{\text{CPB}}$	O0
16	DoutA	VCC	PA2	VCC	VCC	VDD	VDD	VDD	VDD	VDD	US	VDD	VDD	VCC

Pin	ft	fu	fv [⊙]	fw	fx	fy	fz	ga	gb	gc	gd	ge	gf	gg
1	I1	VCC1	DL	CPB	DB	OUT1	O0	$\overline{\text{EO0}}$	Z0A	$\overline{\text{MR}}$	OUTA	OUTB	$\overline{\text{CLR}}$	OUTDIS
2	C1	Q2	Q0	O3B	CP	RL1	T/ $\overline{\text{C}}$	$\overline{\text{EO1}}$	Z2A	J	$\emptyset 1$	$\emptyset 1$	Q1	OUTDIS
3	O1(72)	Q3	Q1	O2A	NC	In1	$\overline{\text{K}}$	Z0	WEA	$\overline{\text{K}}$	LC	ISA	D1	OUTA
4	I2	CP	VCC2	O1A	NC	W/R1	J	Z1	CPA	P0	NC	I2A	D2	OUTB
5	C2	DR	VCC1	O0A	NC	$\overline{\text{CSX}}$	MR	Z2	Z3A	P1	NC	ISB	Q2	OUTC
6	O2(72)	P3	Q2	MRA	063	$\overline{\text{CSY}}$	CP	Z3	Z1A	P2	InB	I1B	D3	OUTD
7	I3	S2	Q3	DA	$\overline{\text{063}}$	NC	PE	CP	DA	P3	NC	NC	Q3	CP
8	GND	VEE	CP	VSS	VSS	GND	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS
9	C3	P2	DR	CPA	CQ	NC	P0	$\overline{\text{EDO}}$	DB	$\overline{\text{PE}}$	OUTB	OUTB	Clk	DInD1S
10	O3(72)	S1	P3	O3A	A/B	NC	P1	$\overline{\text{ED1}}$	Z1B	CP	$\emptyset 2$	$\emptyset 2$	Q4	DInDIS
11	$\emptyset 2$	P1	S2	O2B	NC	Clk	P2	D3	Z3B	$\overline{\text{O3}}$	NC	NC	D4	InD
12	$\emptyset 1$	P0	VEE	O1B	NC	W/R2	P3	D2	CPB	O3	NC	I2B	Q5	InC
13	O3(68)	DL	P2	O0B	NC	RL2	O3	D1	WEB	O2	VGG	VGG	D5	InB
14	O2(68)	Q0	S1	MRB	NC	OUT2	O2	D0	Z2B	O1	InA	I1A	D6	InA
15	O1(68)	Q1	P1	DB	DA	In2	O1	MR	Z0B	O0	VDD	VDD	Q6	CLR
16	VDD	VCC2	P0	VDD	VDD	VCC	VDD	VDD	VDD	VDD	NC	NC	VDD	VDD

PN16(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN16

PN16(Cont.)

Pin	gh	gi	gj	gk [ⓐ]	gm	gn [ⓑ]	go	gp	gq	gr	gs	gt	gu	gv
1	$\overline{EQ0}$	2Q1	VCC1	Q3	R	Q3	In4	VBB	VCP	A6	O0	A6	NC	Q16A
2	$\overline{EQ1}$	1Q1	Q0	Q4	Q0	Q4	In8	Din	A1	A5	O1	A5	Din	Q48A
3	Q0	D1	Q1	Q5	Q1	Q5	OUT8	Dout	A2	A4	O2	A4	W	WEA
4	Q1	2Q2	Q2	VCC2	Q2	VCC	OUT7	A3	A0	A3	O3	A3	RAS	CLA
5	Q2	1Q2	D0	VCC1	D0	R	OUT6	A2	A6	A0	O4	A0	A0	Q64A
6	Q3	D2	D1	Q0	D1	Q0	OUT5	A1	A5	A1	O5	A1	A2	Q32A
7	CP	CLK	D2	Q1	D2	Q1	XR/DB	A0	A7	A2	O6	A2	A1	DA
8	VSS	GND	VEE	Q2	VEE	Q2	CLK	VSS	VEE	GND	GND	GND	VCC	VSS
9	$\overline{ED0}$	D3	CP	D0	CP	D0	VSS	VDD	A3	O3	O7	O3	A7	DB
10	$\overline{ED1}$	1Q3	D3	O1	D3	D1	VGG	NC	A4	O2	A0	O2	A5	Q32B
11	D3	2Q3	D4	D2	D4	D2	OUT1	\emptyset 2	Q4	O1	A1	O1	A4	Q64B
12	D2	D4	D5	VEE	D5	VEE	OUT2	\emptyset 1	Q3	O0	A2	O0	A3	CLB
13	D1	1Q4	Q3	CP	Q3	CP	OUT3	\overline{CS}	\overline{CE}	\overline{CS}	A3	$\overline{CS1}$	A6	WEB
14	D0	2Q4	Q4	D3	Q4	D3	OUT4	R/W	Q2	A8	A4	$\overline{CS2}$	Q	Q48B
15	R	STRBG	Q5	D4	Q5	D4	In1	CE	Q1	A7	CS	A7	\overline{CAS}	Q16B
16	VDD	VCC	VCC2	D5	VCC	D5	in2	VCC	VCC	VCC	VCC	VCC	VSS	VDD

Pin	gw	gx	gy	gz	ha	hb	hc	hd	he	hf	hg	hh	hi	hj	hk	hl
1	\overline{RFSH}	\overline{RFSH}	AlnA	\overline{CS}	STR	InA	InD	NC	NC	A6	A3	A0	CE	CE	A6	Q0
2	Din	Din	\overline{ME}	A0	D	RECABC	RID	Din	Din	A5	A2	CS	A3	MA0	A5	Q1
3	\overline{WRITE}	\overline{WRITE}	\overline{WE}		A1	CLK	CLR	\overline{W}	\overline{WE}	A4	A1	WE	A2	MA1	A4	Q2
4	\overline{RAS}	\overline{RAS}	DI1	A2	Q1	InB	CLR	\overline{RE}	\overline{RAS}	A3	ADDC	D1	A1	MA2	A3	Q3
5	A0	A0	$\overline{DO1}$	A3	Q2	OB	OA	A0	A0	A0	\overline{CLR}	O1	A0	MA3	A0	Q4
6	A2	A2	DI2	A4	Q3	GND	L/RCON	A2	A2	A1	LCLK	D2	A4	MA4	A1	Q5
7	A1	A1	$\overline{DO2}$	DO	Q4	VCC	InA	A1	A1	A2	CLKC	O2	Dout	DO	A2	Q6
8	VCC	VCC	VSS	VSS	VSS	OC	CLK	VCC	VDD	GND	GND	GND	GND	VSS	GND	GND
9	NC	A7	$\overline{DO3}$	A5	Q5	CLK	VCC	NC	A7	O4	DCLK	O3	A5	MA5	Q3	Q7
10	A5	A5	DI3	A6	Q5	InC	RECABC	A5	A5	O3	\overline{LE}	D3	A6	MA6	Q2	A0
11	A4	A4	$\overline{DO4}$	A7	Q8	NC	OB	A4	A4	O2	OUT	O4	A7	MA7	Q1	A1
12	A3	A3	DI4	A8	Q7	RECD	InB	A3	A3	O1	OUTE	D4	A8	MA8	Q0	A2
13	A6	A6	AlnD	A9	Q6	InD	InC	A6	A6	E1	A6	A3	A9	MA9	G1	A3
14	DOUT	DOUT	AlnC	\overline{MWR}	Q5	OD	OC	Q	Dout	E2	A5	A2	R/W	RD/WR	G4	A4
15	\overline{CAS}	\overline{CAS}	AlnB	DI	OE	RID	GND	\overline{CE}	\overline{CAS}	A7	A4	A1	Din	DI	A7	G
16	VSS	VSS	VDD	VDD	VDD	OA	RECD	VSS	VSS	VCC	VCC	VCC	VDD	VDD	VCC	VCC



Registry Control #'s

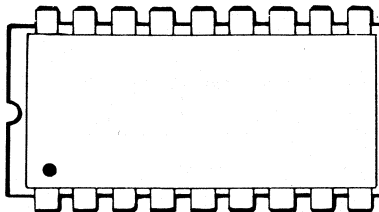
- ⓐ — Can Type Only.
- ⓑ — Also Available in Can Type by some Mfgs. See Type #Outline Dr.
- ⓒ — Flat Pack.
- ⓓ — Also Available in Flat Pack by some Mfgs. See Type #Outline Dr.
- ⓔ — Pin 13 is also the programming pin.

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN18

18 17 16 15 14 13 12 11 10



1 2 3 4 5 6 7 8 9

Pin	a	b	c	d	e	f	g	h	i	j	k	m	n	o
1	CE2	A0	A3	A4	VBB	A4	VSX	A3	A0	A6	$\overline{A3}$	VBB	VSX	A6
2	CE3	A4	A2	A3	I/O	A3	A9	A2	A1	A5	$\overline{A2}$	I/O	NC	A5
3	A0	RW	A1	A2	A0	A2	A8	A0	A2	A4	$\overline{A0}$	A0	A9	A4
4	A1	A1	A0	A1	A1	A1	A7	A1	A3	A3	$\overline{A1}$	A1	A8	A3
5	A2	A2	A5	A0	A2	A0	A6	NC	A4	A0	\overline{P}	A2	A7	A0
6	A3	A3	A6	BUS7	R/W	D7	A5	A9	A5	A1	$\overline{A9}$	R/W	A6	A1
7	A4	A5	A7	BUS6	CE	D6	VREF	A6	Q	A2	$\overline{A6}$	CE	A5	A2
8	D0	A6	VSS	BUS5	A3	D5	RESET	A5	\overline{W}	E	$\overline{A5}$	A3	CS	\overline{CS}
9	GND	NC	OD	VSS	A4	VSS	A4	A7	VSS	VSS	$\overline{A7}$	A4	GND	GND
10	A5	VBB	CE2	BUS4	VDD	D4	A3	VBB	E	\overline{W}	VBB	VDD	A4	\overline{WE}
11	A6	VDD	DI/O1	BUS3	A5	D3	A2	VDD	D	DQ4	VDD	A5	A3	I/O4
12	A7	VSS	DI/O2	BUS2	A6	D2	A1	DI	A11	DQ3	\overline{DI}	A6	A2	I/O3
13	A8	PC	DI/O3	BUS1	A7	D1	A0	A8	A10	DQ2	A8	A7	A1	I/O2
14	A9	DI/O	DI/O4	BUS0	A8	D0	CL/CS	Dout	A9	DQ1	DO	A8	A0	I/O1
15	WE	CE	CE1	CS	A9	CS	I/O	A4	A8	A9	$\overline{A4}$	A9	Din	A9
16	D1	A9	R/W	MRD	A10	RD	I/O	CE	A7	A8	CE	A10	Dout	A8
17	CE1	A8	A4	MWR	A11	WR	VDD	VSS	A6	A7	VSS	A11	R/W	A7
18	VCC	A7	VCC	VDD	VSS	VDD	VSX	R/W	VCC	VCC	$\overline{R/W}$	VSS	VDD	VCC

Pin	p	q	r	s	t	u	v	w	x	y	z	aa	ab	ac
1	GND	VBB	A0	Dout2	A3	CS	A3	A0	VSX	A0	A0	A6	A5	VBB
2	A3	A9	A1	Din2	A2	STR	A2	A1	A9	A1	A1	A5	A4	Din
3	A2	A10	A2	Din1	A1	ADR	A1	A2	A8	A2	A2	A4	I/O1	\overline{W}
4	A1	A11	A3	Dout1	A0	DX0	A0	A3	A7	A3	A3	A3	\overline{CE}	$\overline{RAS1}$
5	A0	TSP	A4	AB	A5	DX1	A5	A4	A6	A4	A4	A0	I/O2	$\overline{RAS2}$
6	Din	I/O	A5	AA	A6	DX2	A6	A5	A5	A5	A5	A1	I/O3	A0
7	Dout	A0	D0	AF	A7	DX3	A7	Dout	VREF	Dout	Q	A2	R/W	A2
8	VCC	A1	$\overline{R/W}$	AE	GND	DX4	GND	\overline{WE}	RESET	\overline{WE}	\overline{W}	\overline{S}	I/O4	A1
9	CS	A2	GND	GND	DI/O1	GND	STR	VSS	A4	GND	VSS	VSS	VSS	VDD
10	$\emptyset 1$	A3	\overline{S}	AD	DI/O2	DX5	CS2	\overline{CE}	A3	\overline{CS}	\overline{S}	\overline{WE}	A1	VCC
11	$\emptyset 2$	A4	DI	AC	DI/O3	DX6	I/O1	Din	A2	Din	D	I/O4	A0	A5
12	R/W	A5	A6	ME	DI/O4	DX7	I/O2	A11	A1	A11	A11	I/O3	A8	A4
13	VDD	CE	A7	WE	\overline{CES}	DX8	I/O3	A10	A0	A10	A10	I/O2	A9	A3
14	A7	VDD	A8	Dout4	\overline{ST}	DX9	I/O4	A9	CL/CS	A9	A9	I/O1	A2	A6
15	A6	A6	A9	Din4	\overline{CEL}	DX10	CS1	A8	I/OB	A8	A8	A9	A3	Q
16	A5	A7	A10	Din3	\overline{WE}	DX11	R/W	A7	I/OA	A7	A7	A8	A7	$\overline{CAS2}$
17	A4	A8	A11	Dout3	A4	MSEL	A4	A6	VDD	A6	A6	A7	A6	$\overline{CAS1}$
18	VSUB	VSS	VCC	VCC	VCC	VCC	VCC	VCC	VSS	VCC	VCC	VCC	VCC	VSS

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN18

PN18 (Cont.)

Pin	ad	ae	af	ag	ah	ai	aj	ak	am	an	ao [Ⓞ]	ap	aq	ar
1	$\overline{CS2}$	A0	A0	A6	Dout	A0	A0	A5	\overline{ST}	A3	VBB	A0	$\overline{CS1}$	VCC
2	$\overline{CS1}$	A1	A1	A5	A0	A1	A1	A4	E	A2	Din	A1	\overline{CE}	NC
3	A0	A2	A4	A4	A1	A2	A2	A3	A0	A1	\overline{W}	A4	A0	O5
4	A1	A3	A5	A3	A2	A3	A3	A2	A1	A0	$\overline{RAS1}$	A5	A1	O4
5	A2	A4	A2	A0	A3	A4	A4	A0	A2	A5	A0	A2	A2	O3
6	A3	A5	A3	A1	A4	A5	A5	A1	A3	A6	A2	A3	A3	O2
7	A4	Dout	Q	A2	A5	Q	Q	Y	A4	A7	A1	Q	A4	O1
8	Dout	\overline{WE}	\overline{W}	\overline{E}	A6	\overline{W}	\overline{W}	\overline{E}	Q	GND	VDD	\overline{W}	Dout	OUTINH
9	GND	GND	GND	GND	GND	GND	GND	GND	GND	\overline{E}	$\overline{RAS2}$	VSS	GND	GND
10	A5	\overline{CE}	\overline{E}	\overline{W}	A7	\overline{E}	\overline{E}	\overline{W}	A5	$\overline{S2}$	$\overline{CAS2}$	\overline{S}	A5	A2
11	A6	Din	D	DQ4	A8	D	D	DQ3	A6	DQ0	VCC	D	A6	A1
12	A7	A6	A6	DQ3	A9	A10	A11	DQ2	A7	DQ1	A5	A6	A7	A0
13	A8	A7	A7	DQ2	A10	A9	A10	DQ1	A8	DQ2	A4	A7	A8	A8
14	A9	A8	A8	DQ1	A11	Y	A9	DQ0	$\overline{A9}$	DQ3	A3	A8	A9	A7
15	\overline{WE}	A9	A9	A9	\overline{WE}	A8	A8	A8	W	$\overline{S1}$	A6	A9	\overline{WE}	A6
16	Din	A10	A10	A8	\overline{CS}	A7	A7	A7	D	\overline{W}	Dout	A10	Din	A5
17	$\overline{CS3}$	A11	A11	A7	Din	A6	A6	A6	$\overline{S2}$	A4	$\overline{CAS1}$	A11	$\overline{CS2}$	A4
18	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VSS	VCC	VCC	A3

Pin	as	at	au	av	aw	ax	ay	az	ba	bb	bc	bd	be	bf
1	A6	A6	RESEL	A6	A6	A9	A6	A6	A6	A7	A6	Y1	VSS	GND
2	A5	A5	\overline{CE}	A5	A5	A6	A5	A5	A5	A6	A5	Y2	Dout	SYNC
3	A4	A4	\overline{OEH}	A4	A4	A5	A4	A4	A4	A5	A4	Y3	A0	\overline{CE}
4	A3	A3	DX0	A3	A3	A4	A3	A3	A3	A4	A3	Y4	A5	\overline{WE}
5	A0	A2	DX1	A0	A0	A3	A0	A0	A0	A3	A0	OSC	A1	A0
6	A1	A1	DX2	A1	A1	A0	A1	A1	A1	A0	A1	KBM	A2	A1
7	A2	A0	DX3	A2	A2	A1	A2	A2	A2	A1	A2	X4	A3	A2
8	$\overline{CS1}$	$\overline{CE1}$	DX4	A10	$\overline{CE1}$	A2	$\overline{E2}$	$\overline{E2}$	A10	A2	A10	X3	A4	A3
9	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	VDD	GND
10	$\overline{CS2}$	$\overline{CE2}$	DX5	\overline{CE}	$\overline{CE2}$	O4	$\overline{E1}$	$\overline{P/E1}$	$\overline{E1}$	O5	\overline{CS}	X2	Din	VBB
11	O4	O4	DX6	O4	O4	O3	O4	O4	O4	O4	O4	X1	WE	A4
12	O3	O3	DX7	O3	O3	O2	O3	O3	O3	O3	O3	DAVA	$\emptyset 2$	A5
13	O2	O2	DX8	O2	O2	O1	O2	O2	O2	O2	O2	\overline{OUTE}	$\emptyset 3$	A6
14	O1	O1	DX9	O1	O1	$\overline{E1}$	O1	O1	O1	O1	O1	DoutD	VBB	A7
15	A9	A9	DX10	A9	A9	A8	A9	A9	A9	$\overline{E1}$	A9	DoutC	$\emptyset 1$	Dout
16	A8	A8	DX11	A8	A8	A7	A8	A8	A8	$\overline{E2}$	A8	DoutB	$\emptyset 4$	DIn
17	A7	A7	OEL	A7	A7	E2	A7	A7	A7	A8	A7	DoutA	CS	SE
18	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	CE	VDD

PN18(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN18

PN18(Cont.)

Pin	bg	bh	bi	bj	bk	bm	bn	bo	bp	bq	br	bs	bt	bu
1	A3	A2	A6	A6	A6	A6	MA4	\bar{F}	A0	AD0	A3	Dout	A0	A6
2	A2	A1	A7	A5	A5	A5	MA3	\bar{E}	A1	AD1	A2	A0	A1	A5
3	A1	A0	A8	A4	A4	A4	MA2	G	A2	AD2	A1	A1	A4	A4
4	A0	A8	A9	A3	A3	A3	MA1	DX0	A3	AD3	A0	A2	A5	A3
5	A5	A9	A10	A2	A0	A0	MA0	DX1	A4	AD4	A11	A3	A2	A0
6	A6	DI/O1	A11	A1	A1	A1	Bus7	DX2	A5	AD5	A10	A4	A3	A1
7	A7	DI/O2	Q	A0	A2	A2	Bus6	DX3	Q	A06	Dout	A5	Dout	A2
8	VSS	\bar{CE}	\bar{W}	$\bar{CS1}$	\bar{CE}	\bar{S}	Bus5	DX4	\bar{W}	AD7	WE	A6	R/W	CE
9	OUTDIS	VSS	GND	GND	GND	GND	VSS	GND	GND	VSS	VSS	VEE	GND	GND
10	$\bar{CE2}$	\bar{WE}	E	CS2	\bar{WE}	\bar{W}	Bus4	DX5	\bar{S}	A8	CE	A7	CE	R/W
11	DI/O1	DI/O3	D	O3	I/O4	DQ3	Bus3	DX6	D	A9	Din	A8	Din	DI/O4
12	DI/O2	DI/O4	A0	O2	I/O3	DQ2	Bus2	DX7	A11	CE2	A6	A9	A6	DI/O3
13	DI/O3	A6	A1	O1	I/O2	DQ1	Bus1	DX8	A10	\bar{CET}	A9	A10	A7	DI/O2
14	DI/O4	A7	A2	O0	I/O1	DQ0	Bus0	DX9	A9	\bar{CS}	A8	A11	A8	DI/O1
15	\bar{CET}	A5	A3	A9	A9	A9	\bar{CS}	DX10	A8	ALE	A7	WE	A9	A9
16	\bar{WE}	A4	A4	A8	A8	A8	\bar{MRD}	DX11	A7	\bar{WR}	A4	C7	A10	A8
17	A4	A3	A5	A7	A7	A7	\bar{MWR}	\bar{G}	A6	\bar{RD}	A5	Din	A11	A7
18	VCC	VCC	VCC	VCC	VCC	VCC	VDD	VCC	VCC	VCC	VCC	VCC	VDD	VDD

Pin	bv	bw	bx	by	bz	ca								
1	D0	A3	A6	A2	A6	A7								
2	D1	A2	A5	A1	A5	A6								
3	D2	A5	A4	A0	A4	A5								
4	D3	A6	A3	A11	A3	A4								
5	CE	A7	A0	A10	A0	A3								
6	R/W	A0	A1	A9	A1	A0								
7	NR	A1	A2	Dout	A2	A1								
8	MG	VDD	A10	WE	G1	A2								
9	VSS	A5	GND	VSS	GND	GND								
10	A0	VPP	CS	CE	G2	G								
11	A1	D3	O3	Din	Q3	Q3								
12	A2	D2	O2	A8	Q2	Q2								
13	A3	D1	O1	A7	Q1	Q1								
14	A4	D0	O0	A6	Q0	Q0								
15	A5	CS/ME	A9	A5	A9	A10								
16	A6	R/W	A8	A4	A8	A9								
17	A7	A4	A7	A3	A7	A8								
18	VDD	GND	VCC	VCC	VCC	VCC								

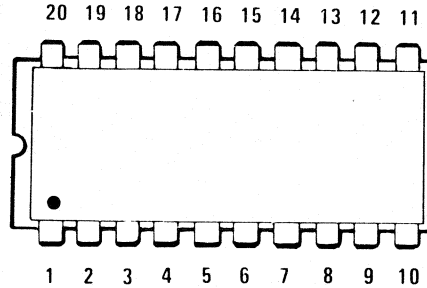
Registry Control #'s

- ① - Can Type Only.
- ② - Also Available in Can Type by some Mfgs. See Type #Outline Dr.
- ③ - Flat Pack.

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN20



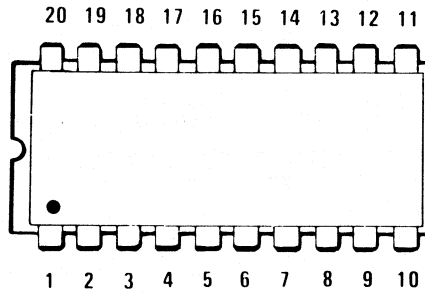
Pin	a	b	c	d	e	f	g [⊙]	h [⊙]	i	j [⊙]	k [⊙]	m	n	o
1	ADDinA	NC	OE	A6	A3	A0	A0	A0	A0	A0	A0	A0	A0	A0
2	ADDinB	A0	A6	A5	A2	A1	A1	A1	A1	A1	A1	A1	A1	A1
3	ADDinC	A1	A5	A4	A1	A2	A2	A2	A2	A2	A2	A2	A2	A2
4	ADDinD	A2	A4	A3	A0	A3	A3	A3	A3	A3	A3	A3	A3	A3
5	Din3	A3	A3	CS2	A5	A4	A4	A4	A4	A4	A4	A4	A4	A4
6	ADDinE	A4	A0	A0	A6	O1	O1	O1	O1	O1	O1	O1	O1	O1
7	ADDinF	A5	A1	A1	A7	O2	O2	O2	O2	O2	O2	O2	O2	O2
8	ADDinG	Q	A2	A2	GND	O3	O3	O3	O3	O3	O3	O3	O3	O3
9	Din2	\overline{W}	S	$\overline{CS1}$	I/O1	O4	O4	O4	O4	O4	O4	O4	O4	O4
10	GND	VSS	VSS	GND	I/O2	GND	GND	GND	GND	GND	GND	GND	GND	GND
11	Din1	\overline{S}	W	\overline{WE}	I/O3	O5	O5	O5	O5	O5	O5	O5	O5	O5
12	Dout1	D	I/O4	I/O4	I/O4	O6	O6	O6	O6	O6	O6	O6	O6	O6
13	Dout2	A11	I/O3	I/O3	A9	O7	O7	O7	O7	O7	O7	O7	O7	O7
14	Dout3	A10	I/O2	I/O2	A8	O8	O8	O8	O8	O8	O8	O8	O8	O8
15	Dout4	A9	I/O1	I/O1	CE2	$\overline{E1}$	$\overline{CS1}$	\overline{CS}	$\overline{E1}$	$\overline{PS1}$	\overline{PS}	$\overline{P/E1}$	$\overline{E1}$	$\overline{P/E1}$
16	\overline{OE}	A8	A9	OD	OD	A5	$\overline{CS2}$	A5	$\overline{E2}$	$\overline{PS2}$	A5	$\overline{E2}$	A5	A5
17	W	A7	A8	A9	$\overline{CE1}$	A6	A5	A6	A5	A5	A6	A5	A6	A6
18	ADDinH	A6	A7	A8	R/W	A7	A6	A7	A6	A6	A7	A6	A7	A7
19	Din4	VCC2	VCC2	A7	A4	A8	A7	A8	A7	A7	A8	A7	A8	A8
20	VCC	VCC1	VCC1	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC

PN20(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN20



PN20(Cont.)

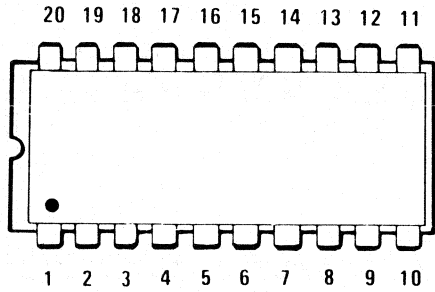
Pin	p	q	r	s	t	u	v	w	x	y	z	aa	ab	ac
1	A0	A0	A0	Y1	\overline{OE}	\overline{OE}	D0	E	InA	I5	REPB-	A6	A0	A0
2	A1	A1	A1	Y2	D0	Y0	W0	Q0	InB	I4	SWAP+	A5	A1	A1
3	A2	A2	A2	Y3	D1	DD	Y0	D0	InC	I3	GEN-	A4	A2	A2
4	A3	A3	A3	Y4	D2	D1	D1	D1	InD	I2	GEN+	A3	A3	A3
5	A4	A4	A4	Y5	D3	Y1	W1	Q1	InE	I1	SWAP-	A2	A4	A4
6	O1	O1	O1	OSC	D4	Y2	Y1	Q2	InF	I0	RS-	A1	A5	O0
7	O2	O2	O2	KBM	D5	D2	$\overline{OE-W}$	D2	InG	S0	R/R+	A2	A6	O1
8	O3	O3	O3	X4	D6	D3	$\overline{OE-Y}$	D3	OUTF0	S1	RR-	A10	Dout	O2
9	O4	O4	O4	X3	D7	Y3	CP	Q3	OUTF1	S2	REPAB+	$\overline{E2}$	\overline{WE}	O3
10	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	REPA	GND	VSS	GND
11	O5	O5	O5	X2	CP	CP	Y2	CP	OUTF2	O4	CT+	$\overline{E1}$	\overline{CS}	O4
12	O6	O6	O6	X1	O7	Y4	W2	Q4	OUTF3	O3	DT	A11	Din	O5
13	O7	O7	O7	DAYA	O6	D4	D2	D4	OUTF4	O2	LT	O4	A13	O6
14	O8	O8	O8	OLTE	O5	D5	Y3	D5	OUTF5	O1		O3	A12	O7
15	A9	\overline{CE}	\overline{LC}	DoutE	O4	Y5	W3	Q5	InL	\overline{E}		O2	A11	\overline{CS}
16	A5	A5	$\overline{E1}$	CoutD	O3	Y6	D3	Q6	InH	I9		O1	A10	A5
17	A6	A6	A5	DoutC	O2	D6	\overline{E}	D6	InI	I8	Y2	A9	A9	A6
18	A7	A7	A6	DoutB	O1	D7	POL	D7	InJ	I7	Y1	A8	A8	A7
19	A8	A8	A7	DoutA	O0	Y7	\overline{CLR}	Q7	InK	I6	X2	A7	A7	A8
20	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	X1	VCC	VCC	VCC

PN20 (cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN20



PN20 (cont.)

Pin	ad	ae	af	ag															
1	A6	A0	A0																
2	A5	A1	A1																
3	A4	A2	A2																
4	A3	A3	A3																
5	CE2	A4	A4																
6	A0	Q0	Q0																
7	A1	Q1	Q1																
8	A2	Q2	Q2																
9	CE1	Q3	Q3																
10	GND	GND	GND																
11	WE	Q4	Q4																
12	I/O4	Q5	Q5																
13	I/O3	Q6	Q6																
14	I/O2	Q7	Q7																
15	I/O1	G1	G																
16	OE	G2	A5																
17	A9	A5	A6																
18	A8	A6	A7																
19	A7	A7	A8																
20	VCC	VCC	VCC																

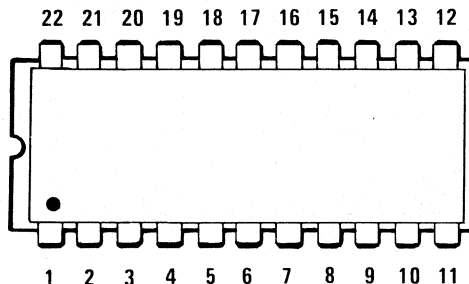
Registry Control #'s

- ⊙ - Can Type Only.
- ⊙ - Also Available in Can Type by some Mfgs. See Type #Outline Dr.
- ⊙ - Flat Pack.
- ⊙ - Also Available in Flat Pack by some Mfgs. See Type #Outline Dr.
- ⊙ - Pin 13 is also the programming pin.
- ⊙ - Pin 15 is also the programming pin.

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN22



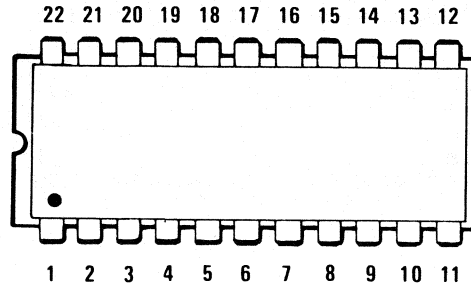
Pin	a	b	c	d	e	f	g	h	i	j	k	m	n	o
1	VSY	VBB	VSub	A3	A3	A3	VSX	VBB	A3	VBB	A3	VBB	VBB	VSX
2	A0	A9	Dout3	A2	A2	A2	A0	A9	A2	A3	A2	A9	A1	A9
3	VSS	A10	Din3	A1	A1	A1	VSS	A10	A1	PS	A1	A10	A0	A10
4	NC	A11	A7	A0	A0	A0	NC	A11	A0	Din	A0	A11	DIDO	A11
5	CHPP	CS	A6	A5	A5	A5	QP	\overline{CS}	A5	A11	A5	\overline{CS}	A9	NC
6	Din	DI	A5	A6	A6	A6	Din	Din	A6	CE	A6	Din	A8	Din
7	WE	DO	A4	A7	A7	A7	WE	\overline{Dout}	A7	Dout	A7	\overline{Dout}	A7	\overline{Dout}
8	A9	A0	A/CSL	VSS	VSS	GND	A9	A0	VSS	CS	GND	A0	DI/DO	A0
9	A8	A1	VCC	Din1	DI0	DI1	A8	A1	DI1	A4	DI1	A1	$\overline{R/W}$	A1
10	A7	A2	Din4	Dout1	DO0	DO1	A7	A2	DO1	A2	DO1	A2	VCC	A2
11	A6	VCC	Dout4	Din2	DI1	DI2	A6	VCC	DI2	VCC	DI2	VCC	GND	VRF
12	A5	$\overline{R/W}$	Dout1	Dout2	DO1	DO2	A5	\overline{WE}	DO2	VSS	DO2	WE	NC	R/W
13	NC	A3	Din1	Din3	DI2	DI3	A10	A3	DI3	A0	DI3	A3	CS	A3
14	CS	A4	\overline{CS}	Dout3	DO2	DO3	CS	A4	DO3	R/W	DO3	A4	A2	A4
15	VREF	A5	A0	Din4	DI3	DI4	VREF	A5	DI4	A5	DI4	A5	A5	A5
16	\overline{Dout}	NC	A1	Dout4	DO3	DO4	\overline{Dout}	A12	DO4	A6	DO4	NC	A6	NC
17	Dout	CE	A2	CS	CS2	CE2	Dout	CE	CE2	A7	CE2	CE	DI/DO	CS
18	VDD	VDD	A3	OD	\overline{MRD}	OD	VDD	VDD	OD	A8	OD	VDD	DI/DO	VDD
19	A4	A6	R/W	CS	CS1	CE1	A4	A6	CE1	A9	CE1	A6	A4	A6
20	A3	A7	GND	R/W	\overline{MWR}	R/W	A3	A7	\overline{WE}	A10	R/W	A7	A3	A7
21	A2	A8	Din2	A4	A4	A4	A2	A8	A4	A1	A4	A8	NC	A8
22	A1	VSS	Dout2	VDD	VDD	VCC	A1	VSS	VCC	VDD	VCC	VSS	VDD	GND

PN22(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN22



PN22(Cont.)

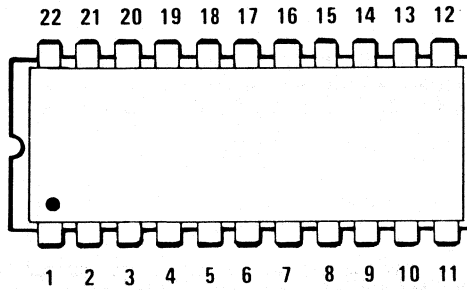
Pin	p	q	r	s	t	u	v	w	x	y	z	aa	ab	ac
1	VBB	VBB	VBB	VBB	A3	A3	VBB	A0	VSX	VSX	VSX	VSX	A6	\overline{BST}
2	A9	A9	A9	A9	A2	A2	A9	I/O1	VSS	NC	A0	A0	A5	$\overline{BS0}$
3	A10	A10	A10	A10	A1	A1	A10	I/O2	A9	WE	VSS	VSS	A4	A0
4	A11	A11	A11	A11	A0	A0	A11	I/O3	A8	Dout	NC	$\overline{QP0}$	A3	A1
5	NC	NC	NC	NC	A5	A5	\overline{CS}	I/O4	A7	VDD	\overline{QP}	$\overline{QP1}$	A2	A2
6	Din	Din	Din	Din	A6	A6	Dout	I/O5	A6	A5	Din	Din	A1	A3
7	\overline{Dout}	\overline{Dout}	\overline{Dout}	\overline{Dout}	A7	A7	Dout	I/O6	A5	A6	WE	WE	A0	A4
8	A0	A0	A0	A0	GND	GND	A0	I/O7	NC	A7	A9	A9	I/O1	A5
9	A1	A1	A1	A1	DI1	DI1	A1	I/O8	VREF	A8	A8	A8	I/O2	A6
10	A2	A2	A2	A2	DO1	DO1	A2	$\overline{CS1}$	RST	A9	A7	A7	I/O3	A7
11	VCC	VCC	NC	NC	DI2	DI2	VCC	VSS	A4	A10	A6	A6	VSS	VEE
12	$\overline{R/W}$	$\overline{R/W}$	$\overline{R/W}$	R/W	DO2	DO2	R/W	$\overline{R/W}$	A3	A0	A5	A5	I/O4	DI3
13	A3	A3	A3	A3	DI3	DI3	A3	\overline{OD}	A2	A1	NC	A10	I/O5	DI2
14	A4	A4	A4	A4	DO3	DO3	A4	CS2	A1	A2	CS	CS	I/O6	DI1
15	A5	A5	A5	A5	DI4	DI4	A5	A7	A0	A3	VREF	VREF	I/O7	DI0
16	N/C	NC	Dout	Dout	DO4	DO4	DIN	A6	NC	A4	\overline{Dout}	\overline{Dout}	I/O8	DO3
17	\overline{CS}	\overline{CS}	\overline{CS}	CS	\overline{CES}	CE	CE	A5	Clk	Clk2	Dout	Dout	\overline{WE}	DO2
18	VDD	VDD	VDD	VDD	\overline{ST}	STR	VDD	A4	NC	Clk3	VDD	VDD	\overline{CE}	DO1
19	A6	A6	A6	A6	\overline{CEL}	CS	A6	A3	I/OB	Clk1	A4	A4	A9	DO0
20	A7	A7	A7	A7	\overline{WE}	R/W	A7	A2	I/OA	VSS	A3	A3	A8	VCCO
21	A8	A8	A8	A8	A4	A4	A8	A1	VDD	Din	A2	A2	A7	VCC
22	VSS	GND	GND	VSS	VCC	VCC	VSS	VDD	CS	\overline{CS}	A1	A1	VCC	\overline{WE}

PN22(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN22



PN22(Cont.)

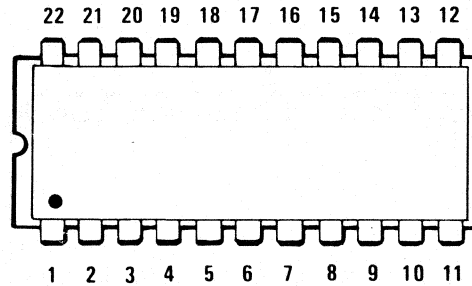
Pin	ad	ae	af	ag	ah	ai	aj	ak	am	an	ao	ap	aq	ar
1	A3	VBB	VBB	D7	DO0	A3	A3	A6	A6	A3	NC	A6	A6	A6
2	A2	A3	A9	D6	DO1	A2	A2	A7	A7	A2	VDD	A7	A7	A7
3	A1	A4	A10	D5	DI0	A1	A1	A8	A8	A1	E/W	A8	A8	A8
4	A0	A5	A11	D4	DI1	A0	A0	A9	A9	A0	D0	A9	A9	A9
5	A5	CS	\overline{CS}	D3	A0	A5	A5	DQ0	A10	A5	D1	DI/O1	DI/O1	A10
6	A6	Din	Din	D2	A1	A6	A6	DQ1	A11	A6	D2	DI/O2	DI/O2	A11
7	A7	\overline{Dout}	\overline{Dout}	D1	A2	A7	A7	DQ2	D	A7	D3	DI/O3	DI/O3	Din
8	VSS	A8	A0	D0	A3	VSS	GND	DQ3	Q	GND	H	DI/O4	DI/O4	Dout
9	D0	A9	A1	OD	A4	DI1	DO	\overline{G}	\overline{G}	D0	NC	OD	OD	OD
10	Q0	A7	A2	\overline{WE}	A5	DO1	Q0	NC	NC	Q0	GND	MS	NC	MS
11	D1	VCC	VCC	GND	VEE	DI2	D1	GND	GND	D1	W	VSS	VSS	VSS
12	Q1	R/W	R/W	\overline{CE}	A6	DO2	Q1	\overline{E}	\overline{E}	Q1	R	CE	CE	CE
13	D2	A6	A3	\overline{L}	A7	DI3	D2	G	G	D2	CE	OE	OE	OE
14	Q2	A11	A4	A0	A8	DO3	Q2	\overline{S}	\overline{S}	Q2	A0	\overline{CS}	\overline{CS}	\overline{CS}
15	D3	A10	A5	A1	A9	DI4	D3	\overline{W}	\overline{W}	D3	A1	\overline{WE}	\overline{WE}	\overline{WE}
16	Q3	NC	NC	A2	\overline{CS}	DO4	Q3	A5	A5	Q3	A2	A5	A5	A5
17	CS1	CE	CE	A3	\overline{WE}	CS2	S	A4	A4	$\overline{S2}$	A3	A4	A4	A4
18	$\overline{E0}$	VDD	VDD	A4	DI3	OD	\overline{G}	A3	A3	\overline{E}	A4	A3	A3	A3
19	$\overline{CS0}$	A0	A6	A5	DI2	$\overline{CS1}$	\overline{E}	A2	A2	$\overline{S1}$	A5	A2	A2	A2
20	\overline{WE}	A1	A7	A6	DO3	R/ \overline{W}	\overline{W}	A1	A1	\overline{W}	A6	A1	A1	A1
21	A4	A2	A8	A7	DO2	A4	A4	A0	A0	A4	A7	A0	A0	A0
22	VDD	VSS	VSS	VCC	VCC	VDD	VCC	VCC	VCC	VCC	VSS	VCC	VCC	VCC

PN22(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN22



PN22(Cont.)

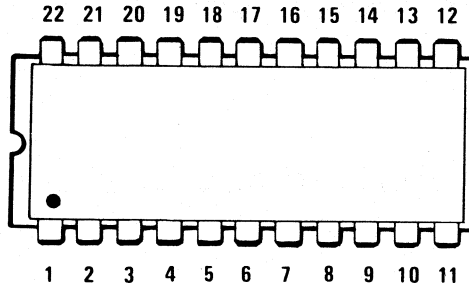
Pin	as	af	au	av	aw	ax	ay	az	ba	bb	bc	bd	be	bf
1	D7	D8	GND	VGG	A6	A6	NC	D3	D3	VGG	CE	CLR	A0	NC
2	D6	D7	A8	VDD	A5	A5	NC	D7	D7	VDD	VSS	Y0	A1	VDD
3	D5	D6	A7	A6	A4	A4	A4	D6	D6	A6	Dout	D0	A2	E/W
4	D4	D5	A6	A7	A3	A3	A5	D5	D5	A7	A0	D1	A3	D0
5	D3	D4	A5	A8	A2	A2	A6	D4	D4	A8	A5	Y1	A4	D1
6	D2	D3	A4	A9	A1	A1	NC	VSS	VSS	A9	A1	Y2	A5	D2
7	D1	D2	A3	C0	A0	A0	O0	A5	A5	C0	A2	D2	A6	D3
8	D0	D1	VCC	C1	O1	O1	O1	A4	A4	C1	A3	D3	A7	H
9	\overline{ME}	D0	A2	VGI	O2	O2	A11	A3	A3	VCC	A4	Y3	CS0	NC
10	WC	OD	A1	D3	O3	O3	A10	A2	A2	D3	VDD	CP	CS1	GND
11	GND	GND	A0	D2	GND	GND	GND	A1	A1	D2	Din	GND	GND	W
12	SC	\overline{WE}	OUTINH	D1	O4	O4	A9	A0	A0	D1	WE	Y4	RC	RS
13	MCLK	\overline{CE}	NC	D0	O5	O5	A8	CLK	CLK	D0	$\emptyset 2$	D4	VDD	CE
14	A0	A0	NC	\overline{WE}	O6	O6	A7	VGG	VGG	\overline{WE}	$\emptyset 3$	D5	VP	A0
15	A1	A1	OUT8	CE	O7	O7	O2	C1	C1	\overline{CE}	NC	Y5	D3	A1
16	A2	A2	OUT7	A0	O8	O8	O3	C2	C2	A0	NC	Y6	D2	A2
17	A3	A3	OUT6	A1	$\overline{E2}$	$\overline{P/E2}$	O4	CS1	CS1	A1	VBB	D6	D1	A3
18	A4	A4	OUT5	A2	$\overline{E1}$	$\overline{E1}$	A0	$\overline{CS2}$	$\overline{CS2}$	A2	NC	D7	D0	A4
19	A5	A5	OUT4	A3	A9	A9	A1	VGI	VCC	A3	NC	Y7	\overline{E}	A5
20	A6	A6	OUT3	A4	A8	A8	A2	D0	D0	A4	$\emptyset 1$	\overline{OE}	\overline{W}	A6
21	A7	A7	OUT2	A5	A7	A7	A3	D1	D1	A5	$\emptyset 4$	\overline{E}	\overline{R}	A7
22	VCC	VCC	out1	VSS	VCC	VCC	VCC	D2	D2	VSS	CS	VCC	VCC	VSS

PN22(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN22



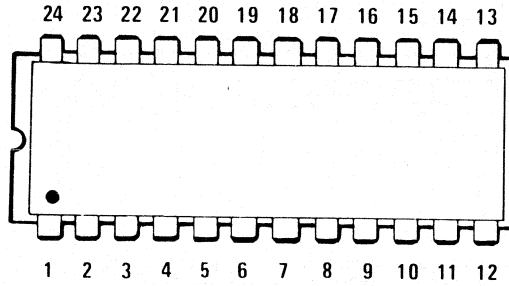
PN22(Cont.)

Pin	bg	bh	bi	bj	bk	bl	bm								
1	A3	A3	A1	A0	VBB	VBB	VBB								
2	A4	A2	A2	I/O0	A9	A9	A1								
3	A5	A1	A3	I/O1	A10	A10	A0								
4	A6	A0	A4	I/O2	A11	A11	DI/DO2								
5	A7	A5	A5	I/O3	\overline{CS}	\overline{CS}	A9								
6	A8	A6	A6	I/O4	Din	Din	A8								
7	Q0	A7	A7	I/O5	Dout	Dout	A7								
8	Q1	VSS	GND	I/O6	A0	A0	DI/DO3								
9	Q2	DI1	D1	I/O7	A1	A1	$\overline{R/W}$								
10	Q3	DO1	O1	CS1	A2	A2	VCC								
11	GND	DI2	D2	VSS	VCC	VDD	GND								
12	Q4	DO2	O2	$\overline{R/W}$	\overline{WE}	R/W	N/C								
13	Q5	DI3	D3	\overline{OD}	A3	A3	\overline{CS}								
14	Q6	DO3	O3	CS2	A4	A4	A2								
15	Q7	DI4	D4	A7	A5	A5	A5								
16	CI'	DO4	O4	A6	NC	NC	A6								
17	$\overline{E2}$	CE2	CS2	A5	CE	CE	DI/DO4								
18	\overline{ET}	OD	\overline{OE}	A4	VDD	VGG	DI/DO1								
19	A0	\overline{CET}	$\overline{CS1}$	A3	A6	A6	A4								
20	A1	\overline{WE}	\overline{WE}	A2	A7	A7	A3								
21	A2	A4	A0	A1	A8	A8	N/C								
22	VCC	VCC	VCC	VDD	VSS	VSS	VDD								

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



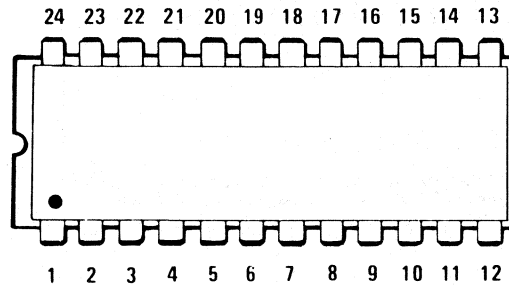
Pin	a	b	c	d	e	f	g	h	i	j [Ⓢ]	k	m	n	o
1	1W1	Q3B	NC	VSS	A7	Q3B	A7	A3	AR2	AW2	D8	D8	A7	A7
2	1W0	Q2B	\overline{CS}	D0	A6	Q2B	A6	A2	AR1	AW3	D7	D7	A6	A6
3	1GW	3-SA	A0	D1	A5	EA	A5	A1	AR0	AR3	D6	D6	A5	A5
4	1DB	Q0A	NC	D2	A4	Q0A	A4	A0	Q0	AR2	D5	D5	A4	A4
5	2DB	Q1A	NC	D3	A3	Q1A	A3	A5	Q1	AR1	D4	D4	A3	A3
6	CLK	Q2A	A1	D4	A2	Q2A	A2	A6	VCC	AR0	D3	D3	A2	A2
7	1R2	Q3A	A2	D5	A1	Q3A	A1	A7	VEE	Q0	D2	D2	A1	A1
8	1R1	W0	A3	D6	A0	W0	A0	NC	Q2	Q1	D1	D1	A0	A0
9	1R0	W1	A4	D7	DQ1	W1	I/O1	VSS	Q3	VCC	D0	D0	I/O1	I/O1
10	1QB	R1B	A5	E0	DQ2	R0B	I/O2	D0	D3	VCCA	OD	OD	I/O2	I/O2
11	2QB	R0B	\emptyset	$\overline{E1}$	DQ3	R1B	I/O3	Q0	D2	Q2	\overline{WE}	\overline{WE}	I/O3	I/O3
12	GND	VSS	VBB	$\overline{E2}$	VSS	VSS	VSS	D1	D1	Q3	GND	GND	GND	VSS
13	2QA	R0A	GND	$\overline{E3}$	DQ4	R0A	I/O4	Q1	D0	D3	\overline{CE}	\overline{CE}	I/O4	I/O4
14	1QA	R1A	VDD	$\overline{E4}$	DQ5	R1A	I/O5	D2	\overline{OET}	D2	NC	$\overline{T1}$	I/O5	I/O5
15	1GR	WE	A6	$\overline{E5}$	DQ6	WE	I/O6	Q2	$\overline{OE2}$	D1	\overline{T}	$\overline{T2}$	I/O6	I/O6
16	2GR	C	NC	R/W	DQ7	CLK	I/O7	D3	$\overline{WE1}$	D0	A0	A0	I/O7	I/O7
17	2W/R0	D3	A7	A6	DQ8	D3	I/O8	Q3	$\overline{WE2}$	\overline{OET}	A1	A1	I/O8	I/O8
18	2W/R1	D2	DB3	A5	\overline{CS}	D2	\overline{WE}	CS1	VCCA	$\overline{OE2}$	A2	A2	\overline{CS}	\overline{CS}
19	2W/R2	D1	DB2	A4	A10	D1	NC	$\overline{E0}$	MR	\overline{WET}	A3	A3	A10	L
20	2GW	D0	NC	A3	\overline{OE}	D0	\overline{CE}	$\overline{CS0}$	AW0	$\overline{WE2}$	A4	A4	\overline{OE}	\overline{OE}
21	2DA	3-SB	DB1	A2	\overline{W}	EB	NC	NC	AW1	VEE	A5	A5	\overline{WE}	\overline{WE}
22	1DA	Q0B	DB0	A1	A9	Q0B	A9	\overline{WE}	AW2	MR	A6	A6	A9	A9
23	1W2	Q1B	R/W	A0	A8	Q1B	A8	A4	AW3	AW0	A7	A7	A8	A8
24	VCC	VDD	VCC	VCC	VCC	VDD	VCC	VDD	AR3	AW1	VCC	VCC	VCC	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN24



PN24(Cont.)

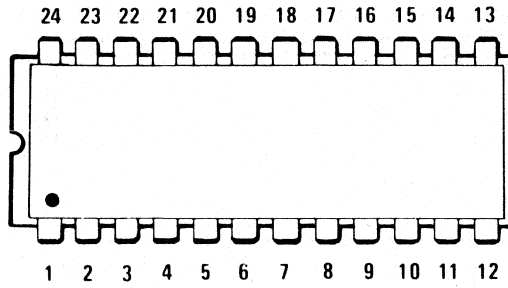
Pin	p	q	r	s	t	u	v	w	x	y	z	aa	ab	ac
1	A7	A7	A7	A7	A7	A7	A6	A3	A3	VSS	VSS	VSS	VSS	A6
2	A6	A6	A6	A8	A6	A6	NC	A2	A2	VGG	VGG	VGG	VGG	A5
3	A5	A5	A5	A9	A5	A5	NC	A1	A1	A5	A5	A5	A5	A4
4	A4	A4	A4	A10	A4	A4	NC	B1	B1	A4	A4	A4	A4	A3
5	A3	A3	A3	A0	A3	A3	A5	B2	B2	A3	A3	A3	A3	A2
6	A2	A2	A2	A1	A2	A2	A4	B3	B3	A2	A2	A2	A2	A1
7	A1	A1	A1	A2	A1	A1	A3	B4	B4	A1	A1	A1	A1	A0
8	A0	A0	A0	A3	A0	A0	A2	B5	B5	O1	NC	NC	NC	$\overline{O8}$
9	O1	O1	O0	A4	D0	O1	A1	B6	B6	O2	NC	NC	NC	$\overline{O7}$
10	O2	O2	O1	A5	D1	O2	B1	B7	B7	O3	NC	NC	NC	$\overline{O6}$
11	O3	O3	O2	A6	D2	O3	NC	B8	B8	O4	O1	O1	O1	$\overline{O5}$
12	GND	GND	GND	GND	GND	GND	GND	VSS	VCC	O5	O2	O2	O2	GND
13	O4	O4	O3	E2	D3	O4	B2	A9	A9	O6	O3	O3	O3	$\overline{O4}$
14	O5	O5	O4	E1	D4	O5	B2	C1	CE	O7	O4	O4	O4	$\overline{O3}$
15	O6	O6	O5	E0	D5	O6	B4	CM	MC	O8	O5	O5	O5	$\overline{O2}$
16	O7	O7	O6	D7	D6	O7	B5	VGG	VGG	O9	O5	NC	NC	$\overline{O1}$
17	O8	O8	O7	D6	D7	O8	B6	A8	A8	O10	NC	NC	NC	\overline{CS}
18	CS2	A11	PD/PGM	D5	E1	A11	B7	A7	A7	INH	INH	INH	A12	CS
19	A10	A10	A10	D4	A10	A10	B8	A6	A6	NC	A11	A11	A11	CS
20	CS1	PD/PGM	\overline{CS}	D3	E0	CS1	C11	A5	A5	NC	A10	A9	A10	\overline{HS}
21	CS3	VPP	VPP	D2	E2	CS2	C12	A4	A4	A9	A9	A1	A9	HS
22	A9	A9	A9	D1	A9	A9	NC	NC	NC	A8	A8	A8	A8	A8
23	A8	A8	A8	D0	A8	A8	A0	NC	NC	A7	A7	A7	A7	A7
24	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VDD	VGI	A6	A6	A6	A6	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN 24



PN24(Cont.)

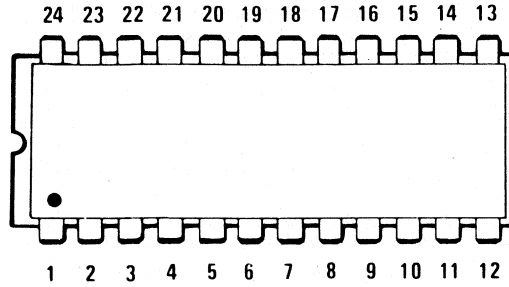
Pin	ad	ae	af	ag	ah	ai	aj	ak	am	an	ao	ap	aq	ar
1	A7	A7	A7	A7	CS	A7	ADH	A2	A7	A7	A7	A7	A7	A7
2	A6	A6	A6	A6	A0	A6	ADG	A1	A6	A6	A6	A6	A6	A6
3	A5	A5	A5	A5	A1	A5	ADF	A0	A5	A5	A5	A5	A5	A5
4	A4	A4	A4	A4	A2	A4	ADE	O1	A4	A4	A4	A4	A4	A4
5	A3	A3	A3	A3	SA	A3	ADD	O2	A3	A3	A3	A3	A3	A3
6	A2	A2	A2	A2	A3	A2	ADC	O3	A2	A2	A2	A2	A2	A2
7	A1	A1	A1	A1	A4	A1	ADB	O4	A1	A1	A1	A1	A1	A1
8	A0	A0	A0	A0	A5	A0	ADA	O5	A0	A0	A0	A0	A0	A0
9	O1	BUS0	BUS0	O1	A6	O1	DO1	O6	DO1	O1	O1	O1	O1	O1
10	O2	BUS1	BUS1	O2	A7	O2	DO2	O7	DO2	O2	O2	O2	O2	O2
11	O3	BUS2	BUS2	O3	∅	O3	DO1	O8	DO3	O3	O3	O3	O3	O3
12	GND	VSS	VSS	VSS	VBB	VSS	GND	VCC	VSS	GND	GND	GND	GND	VSS
13	O4	BUS3	BUS3	O4	VSS	O4	DO4	PRD	DO4	O4	O4	O4	O4	O4
14	O5	BUS4	BUS4	O5	VDD	O5	DO5	CS	DO5	O5	O5	O5	O5	O5
15	O6	BUS5	BUS5	O6	MS	O6	DO6	VBB	DO6	O6	O6	O6	O6	O6
16	O7	BUS6	BUS6	O7	O7	O7	DO7	VGG	DO7	O7	O7	O7	O7	O7
17	O8	BUS7	BUS7	O8	O6	O8	DO8	A7	DO8	O8	O8	O8	O8	O8
18	CS4	CE0	NC	NC	O5	CS2/CS2	S4	A6	PROG	CS4	CS4	E4	E4	CS2/CS2
19	CS3	MRD	NC	NC	O4	VDD	S3	A5	VDD	CS3	CS3	E3	E3	VDD
20	CS2	CS2	CS	CS	O3	CS1	S2	A4	CSWE	CS2	CS2	E2	E2	CS1
21	CS1	CS1	NC	NC	O2	VBB	S1	A3	VBB	CS1	CS1	E1	E1	VBB
22	VCC2	NC	NC	NC	O1	A9	NC	VCC	A9	NC	A9	MFR	A9	A9
23	A8	Clk	A8	A8	O0	A8	ADI	VCC	A8	A8	A8	A8	A8	A8
24	VCC1	VDD	VDD	VDD	VCC	VCC	VCC	VDD	VCC	VCC	VCC	VCC	VCC	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



9132

PN24(Cont.)

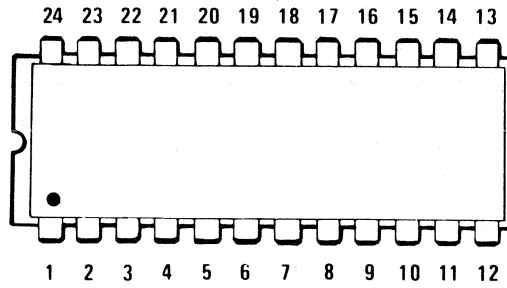
Pin	as	at	au	av	aw	ax	ay	az	ba	bb	bc	bd	be	bf
1	A7	A7	A7	A7	A7	A7	A2	A2	GND	VCC	A7	A7	GND	A3
2	A6	A6	A8	A6	A6	A6	A1	A1	A8	A/CSL	A6	A6	Dout0	A4
3	A5	A5	A9	A5	A5	A5	A0	A0	A7	NC	A5	A5	Dout1	NC
4	A4	A4	A10	A4	A4	A4	Dout1	Dout1	A6	A0	A4	A4	Dout2	A5
5	A3	A3	A0	A3	A3	A3	Dout2	Dout2	A5	A1	A3	A3	Dout3	A6
6	A2	A2	A1	A2	A2	ST	Dout3	Dout3	A4	A2	A2	A2	Dout4	A7
7	A1	A1	A2	A1	A1	O1	Dout4	Dout4	A3	A3	A1	A1	Dout5	O1
8	A0	A0	A3	A0	A0	O2	Dout5	Dout5	NC	A4	A0	A0	Dout6	O2
9	O1	O1	A4	D0	O1	O3	Dout6	Dout6	VCC	A5	O1	O1	Dout7	O3
10	O2	O2	A5	D1	O2	O4	Dout7	Dout7	A2	A6	O2	O2	CS0	O4
11	O3	O3	A6	D2	O3	\overline{EN}	Dout8	Dout8	A1	A7	O3	O3	CS1	FE2
12	VSS	GND	GND	GND	GND	GND	VCC	VCC	A0	A8	VSS	VSS	VCC	GND
13	O4	O4	CS3	D3	O4	A0	PROG	NC	OUTINH	A9	O4	O4	CS2	FE1
14	O5	O5	CS2	D4	O5	A1	\overline{CS}	\overline{CS}	OUT10	A10	O5	O5	CS3	O5
15	O6	O6	CS1	D5	O6	A2	VBB	VCC	OUT9	NC	O6	O6	A9	O6
16	O7	O7	O8	D6	O7	\overline{CE}	VGG	VDD	OUT8	OUT4	O7	O7	A8	O7
17	O8	O8	O7	D7	O8	A10	A7	A7	OUT7	OUT3	O8	O8	A7	O8
18	PS	CS2/ $\overline{CS2}$	O6	CS2	CS4	O5	A6	A6	OUT6	OUT2	CS2/ $\overline{CS2}$	CS2/ $\overline{CS2}$	A6	STR
19	VDD	VDD	O5	A10	CS3	O6	A5	A5	OUT5	OUT1	VDD	NC	A5	CE2
20	$\overline{CS}/\overline{WE}$	$\overline{CS1}$	O4	CS1	CS2	O7	A4	A4	OUT4	A11	CS1/ $\overline{CS1}$	$\overline{CS1}$	A4	$\overline{CE1}$
21	VBB	VBB	O3	CS3	CS1	O8	A3	A3	OUT3	CS3	NC	NC	A3	A0
22	A9	VSS	O2	A9	VCC2	A9	VCC	PROG	OUT2	CS2	A9	A9	A2	A1
23	A8	A8	O1	A8	A8	A8	VCC	VBB	OUT1	CS1	A8	A8	A1	A2
24	VCC	VCC	VCC	VCC	VCCI	VCC	VDD	VDD	NC	GND	VCC	VCC	A0	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(Cont.)

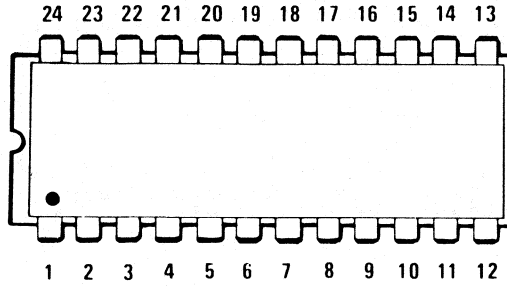
Pin	bg	bh	bi	bj	bk	bm	bn	bo	bp	bq	br	bs	bt	bu
1	A3	A3	A3	VSS	∅	A7	B6	NC	A2	$\overline{CS1}$	A7	A7	A7	A7
2	A4	A4	A4	A4	GND	A6	B7	NC	A1	A0	A6	A6	A6	A6
3	A5	NC	A5	A3	X1	A5	NC	NC	NC	A1	A5	A5	A5	A5
4	A6	A5	A6	A2	X2	A4	B8	A8	B8	A2	A4	A4	A4	A4
5	A7	A6	A7	NC		A3	CS	A7	B7	A3	A3	A3	A3	A3
6	A8	A7	A8	NC		A2	NC	A6	B6	A4	A2	A2	A2	A2
7	O1	O1	O1	MC1	X4	A1	A7	A5	B5	A5	A1	A1	A1	A1
8	O2	O2	O2	MC2	X8	A0	A6	A4	B4	A6	A0	A0	A0	A0
9	O3	O3	O3	CA	X16	Dout0	A5	A3	B3	A7	Q1	Q1	Q1	Q1
10	O4	O4	O4	A1	X32	Dout1	NC	A2	B2	$\overline{CS2}$	Q2	Q2	Q2	Q2
11	FE2	NC	NC	A0		Dout2	NC	A1	B1	NC	Q3	Q3	Q3	Q3
12	GND	GND	GND	GND	VDD	VSS	GND	GND	GND	VSS	VSS	VSS	VSS	VSS
13	FE1	NC	NC	VDD	O8	Dout3	A4	B1	CS2	VSS	Q4	Q4	Q4	Q4
14	O5	O5	O5	Din1	O7	Dout4	A3	B2	CS1	VDD	Q5	Q5	Q5	Q5
15	O6	O6	O6	Din2	O6	Dout5	A2	B3	A9	NC	Q6	Q6	Q6	Q6
16	O7	O7	O7	Din3	O5	Dout6	A1	B4	A8	D7	Q7	Q7	Q7	Q7
17	O8	O8	O8	Din4	O4	Dout7	B1	B5	A7	D6	Q8	Q8	Q8	Q8
18	STR	STR	STR	Dout4	O3	PROG	B2	B6	A6	D5	PROG	A11	PD/PGM	A11
19	CE2	CE2	CE2	Dout3	O2	VDD	B3	B7	A5	D4	YDD	A10	A10	A10
20	$\overline{CE1}$	$\overline{CE1}$	$\overline{CE1}$	NC	O1	CS/WE	B4	B8	A4	D3	$\overline{CS}(PE)$	$\overline{CS1}/CS1$	\overline{CS}	PD/PGM
21	A0	A0	A0	Dout2	CE	VBB	B5	CS	A3	D2	VBB	CS2/ $\overline{CS2}$	VPP	VPP
22	A1	A1	A1	Dout1	Y4	A9	VDD	VDD	VDD	D1	A9	A9	A9	A9
23	A2	A2	A2	A5	Y2	A8	VGG	VGG	VGG	D0	A8	A8	A8	A8
24	VCC	VCC	VCC	VCC	Y1	VCC	NC	NC	NC	VCC	VCC	VCC	VCC	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(Cont.)

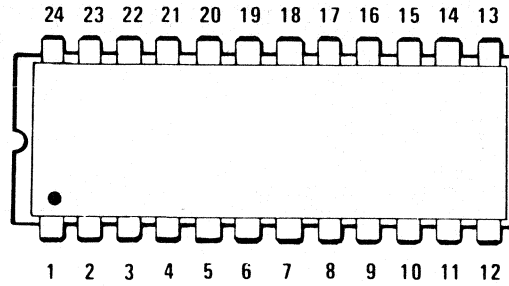
Pin	bv	bw	bx	by	bz	ca	cb	cc	cd	ce	cf	cg	ch	ci
1	A7	GND	A7	A2	InA3	A3	A3	VCC	VSS	CLK1	CLK1	CLK1	A7	GND
2	A6	A8	A6	A1	InA3	A2	A2	∅	DI/O1	VSS	VSS	VSS	A6	D0
3	A5	A7	A5	A0	InA1	A1	A1	∅2	DI/O2	ST	NC	ST	A5	D1
4	A4	A6	A4	Dout1	OUTB1	NC	B1	A0	\overline{CS}	VEE	VEE	VEE	A4	D2
5	A3	A5	A3	Dout2	OUTB2	B1	B2	A1	NC	D4	D4	D4	A3	D3
6	A2	A4	A2	Dout3	OUTB3	NC	B3	A2	VDD	D3	D3	D3	A2	D4
7	A1	A3	A1	Dout4	OUTB4	B2	B4	A3	R1	D2	D2	D2	A1	D5
8	A0	A10	A0	Dout5	OUTB5	NC	B5	A4	R2	D1	D1	D1	A0	D6
9		VCC	O1	Dout6	OUTB6	B3	B6	A5	R3	\overline{W}	\overline{W}	\overline{W}	O1	D7
10	O2	A2	O2	Dout7	OUTB7	NC	B7	A6	R4	VR	VR	VR	O2	E0
11	O3	A1	O3	Dout8	OUTB8	B4	B8	A7	A0	A0	A0	A0	O3	E1
12	VSS	A0	GND	VCC	VCC	VCC	VCC	A8	A1	A1	A1	A1	GND	VCC
13	O4	OUTINH	O4	NC	NC	A9	NC	A9	A2	A2	A2	A2	O4	E2
14	O5	O10	O5	CE/ \overline{CE}	NC	CE	CE	A10	A3	A3	A3	A3	O5	A10
15	O6	O9	O6	NC	CE	NC	NC	VGG	A4	A4	A4	A4	O6	A9
16	O7	O8	O7	VGG	NC	VGG	VGG	OUT4	R8	A5	A5	A5	O7	A8
17	O8	O7	O8	A7	VGG	A8	A8	OUT3	R7	A6	A6	A6	O8	A7
18	PROG	O6	A11	A8	inA7	A7	A7	OUT2	R6	A7	A7	A7	NC	A6
19	VDD	O5	A10	A5	inA6	A6	AG	OUT1	R5	A8	A8	A8	NC	A5
20	$\overline{CS}/\overline{WE}$	O4	CS1	A4	inA5	A5	A5	CS4	CLK1	A9	A9	A9	\overline{E}	A4
21	VBB	O3	A12	A3	inA4	A4	A4	CS3	CLK2	CS2	CS2	A10	NC	A3
22	A9	O2	A9	VCC	NC	NC	NC	CS2	W	CS1	CS1	CS	A9	A2
23	A8	O1	A8	VCC	NC	NC	NC	CS1	DI/O3	VM	VM	VM	A8	A1
24	VCC	A9	VCC	VDD	VG1	VG1	VG1	NC	DI/O4	VDD	VDD	VDD	VCC	A0

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(cont.)

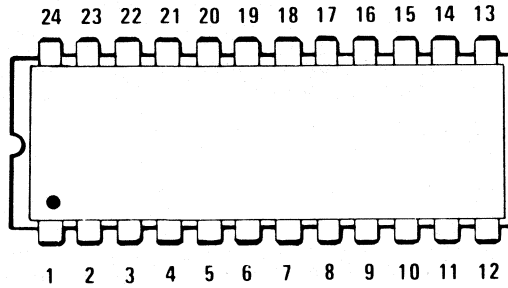
Pin	cj	ck	cm	cn	co	cp	cq	cr	cs	ct	cu	cv	cw	cx
1	GND	GND	VCC	A7	A7	A7	A7	A7	A7	A7	CS	A7	A2	A3
2	A0	D0	R/W	A6	A6	A6	A6	A6	A6	A6	Z0	A6	A1	A2
3	A1	D1	\overline{CS}	A5	A5	A5	A5	A5	A5	A5	Z1	A5	A0	A1
4	A2	D2	VPROG	A4	A4	A4	A4	A4	A4	A4	Z2	A4	Dout1	B1
5	A3	D3	A0	A3	A3	A3	A3	A3	A3	A3	Z3	A3	Dout2	B2
6	A4	D4	A1	A2	A2	A2	A2	A2	A2	A2	Y0	A2	Dout3	B3
7	A5	D5	A2	A1	A1	A1	A1	A1	A1	A1	Y1	A1	Dout4	B4
8	A9	D6	A3	A0	A0	A0	A0	O1	A0	A0	X0	A0	Dout5	B5
9	VCC	D7	A4	D0	D0	O1	O1		O1	O1	X1	O1	Dout6	B6
10	A8	VGG	A5	D1	D1	O2	O2	O2	O2	O2	X2	O2	Dout7	B7
11	A7	VPROG	A6	D2	D2	O3	O3	O3	O3	O3	X3	O3	Dout8	B8
12	A6	VCC	VCC	GND	GND	VSS	GND	GND	VSS	GND	Ⓢ	VSS	VCC	VSS
13	E2	VCC	A7	D3	D3	O4	O4	O4	O4	O4	GND	O4	VCC	A9
14	E1	R/W	A8	D4	D4	O5	O5	O5	O5	O5	X4	O5	\overline{CS}	\overline{CS}
15	A10	CS	D0	D5	D5	O6	O6	O6	O6	O6	X5	O6	VCC	MC
16	D7	A8	D1	D6	D6	O7	O7	O7	O7	O7	X6	O7	VGG	VDD
17	D6	A7	D2	D7	D7	O8	O8	O8	O8	O8	X7	O8	A7	A8
18	D5	A6	D3	PROG	PROG	CS2/ $\overline{CS2}$	A11	Ⓢ	$\overline{CS}(PR)$	$\overline{CE2}$	Y2	PROG	A6	A7
19	D4	A5	D4	VDD	VDD	NC	A10	A10	VDD	NC	Y3	VDD	A5	A6
20	D3	A4	D5	\overline{CS}/WE	\overline{CS}/WE	CS1/ $\overline{CS1}$	\overline{CE}	Ⓢ	A10	$\overline{CE1}$	Z4	\overline{CS}/WE	A4	A5
21	D2	A3	D6	VBB	VBB	NC	A12	Ⓢ	VBB	NC	Z5	VSS	A3	A4
22	D1	A2	D7	VSS	A9	A9	A9	A9	A9	A9	Z6	A9	VCC	VSS
23	D0	A1	VGG	A8	A8	A8	A8	A8	A8	A8	Z7	A8	VCC	VSS
24	E0	A0	GND	VCC	VCC	VCC	VCC	VCC	VCC	VCC	R	VCC	VDD	VLL

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(Cont.)

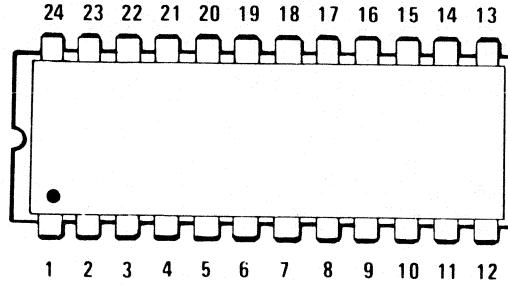
Pin	cy	cz	da	db	dc	dd	de	df	dg	dh	di	dj	dk	dm
1	VSS	O6	VGG(NC)	GND	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7
2	PRS	O7	CS2	A0	A6	A6	A6	A8	A6	A6	A6	A6	A6	A6
3	\overline{CS}	O8	CS3	A1	A5	A5	A5	A9	A5	A5	A5	A5	A5	A5
4	VSS	GND	O1	A2	A4	A4	A4	A10	A4	A4	A4	A4	A4	A4
5	A0	A1	O2	A3	A3	A3	A3	A0	A3	A3	A3	A3	A3	A3
6	A1	A2	O3	A4	A2	A2	A2	A1	A2	A2	A2	A2	A2	A2
7	A2	A3	O4	A5	A1	A1	A1	A2	A1	A1	A1	A1	A1	A1
8	A3	OE1/ $\overline{OE1}$	O5	A9	A0	A0	A0	A3	A0	A0	A0	A0	A0	A0
9	A4	OE2/ $\overline{OE2}$	O6	VCC	Dout0	Dout0	Dout0	A4	Dout0	O0	O0	O0	O0	O0
10	A5	A4	O7	A8	Dout1	Dout1	Dout1	A5	Dout1	O1	O1	O1	O1	O1
11	A6	A5	O8	A7	Dout2	Dout2	Dout2	A6	Dout2	O2	O2	O2	O2	O2
12	VSS	VGG(NC)	GND	A6	VSS	VSS	VSS	VSS	GND	VSS	VSS	VSS	GND	GND
13	A7	A6	A8	AR	Dout3	Dout3	Dout3	CS3/ $\overline{CS3}$	Dout3	O3	O3	O3	O3	O3
14	A8	A7	A7	OE2/ $\overline{OE2}$	Dout4	Dout4	Dout4	CS2/ $\overline{CS2}$	Dout4	O4	O4	O4	O4	O4
15	B0	A8	A6	A10	Dout5	Dout5	Dout5	CS1/ $\overline{CS1}$	Dout5	O5	O5	O5	O5	O5
16	B1	A9	A5	O7	Dout6	Dout6	Dout6	D7	Dout6	O6	O6	O6	O6	O6
17	B2	NC	A4	O6	Dout7	Dout7	Dout7	D6	Dout7	O7	O7	O7	O7	O7
18	B3	\overline{AR}	A3	O5	PROG	\overline{CS} (PR)	YDD	D5	CS2/ $\overline{CS2}$	VSS	PROG	PROG	\overline{CE}	\overline{CE}
19	B4	O1	A2	O4	VDD	VDD	A10	D4	A10	VDD	VDD	VDD	A10	AR
20	B5	O2	A1	O3	\overline{CS} /WE	A10	\overline{CS} (PR)	D3	CS1/ $\overline{CS1}$	\overline{CS}	\overline{CS} /WE	\overline{CS} /WE	\overline{OE}	\overline{OE}
21	B6	O3	A0	O2	VBB	VBB	VBB	D2	CS3/ $\overline{CS3}$	VBB	VBB	VBB	VPP	VPP
22	B7	O4	CS0	O1	A9	A9	A9	D1	A9	A9	A9	VSS	A9	A9
23	VDD	O5	CS1	O0	A8	A8	A8	D0	A8	A8	A8	A8	A8	A8
24	VLL	VCC	VCC	OE1/ $\overline{OE1}$	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



← 2732

PN24(Cont.)

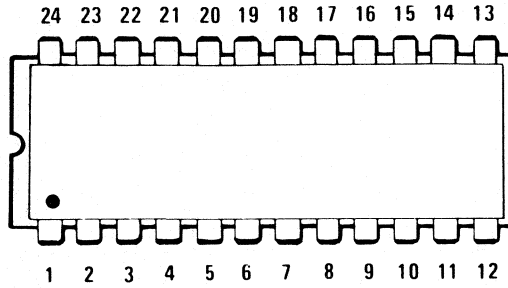
Pin	dn	do ^①	dp	dq	dr	ds	dt	du ^②	dv ^③	dw ^④	dx ^⑤	dy ^⑥	dz ^⑦	ea
1	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7
2	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6
3	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5
4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4
5	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3
6	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2
7	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1
8	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
9	O0	O1	O1	O1	O1	O1	O1	O1	O1	O1	O1	O1	O1	O1
10	O1	O2	O2	O2	O2	O2	O2	O2	O2	O1	O2	O2	O2	O2
11	O2	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3	O3
12	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND
13	O3	O4	O4	O4	O4	O4	O4	O4	O4	O4	O4	O4	O4	O4
14	O4	O5	O5	O5	O5	O5	O5	O5	O5	O5	O5	O5	O5	O5
15	O5	O6	O6	O6	O6	O6	O6	O6	O6	O6	O6	O6	O6	O6
16	O6	O7	O7	O7	O7	O7	O7	O7	O7	O7	O7	O7	O7	O7
17	O7	O8	O8	O8	O8	O8	O8	O8	O8	O8	O8	O8	O8	O8
18	\overline{CE}	CS2	CE4	CE4	CE3	$\overline{CE3/CE3}$	NC	CS4	CS4/PS4	CS4	CS4/PS4	NC	NC	E4
19	A10	A10	CE3	CE3	CE2	$\overline{CE2/CE2}$	NC	CS3	CS3/PS3	CS3	CS3/PS3	NC	NC	E3
20	\overline{OE}	CS1	$\overline{CE2}$	$\overline{CE2}$	$\overline{CE1}$	$\overline{CE1/CE1}$	\overline{CE}	$\overline{CS2}$	$\overline{CS2/PS2}$	$\overline{CS2}$	$\overline{CS2/PS2}$	\overline{CS}	$\overline{CS/PS}$	E2
21	A11	CS3	$\overline{CE1}$	$\overline{CE1}$	A10	A10	NC	$\overline{CS1}$	$\overline{CS1/PS1}$	$\overline{CS1}$	$\overline{CS1/PS1}$	NC	NC	E1
22	A9	A9	NC	A9	A9	A9	A9	NC	NC	A9	A9	A9	A9	NC
23	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8
24	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN24



PN24(Cont.)

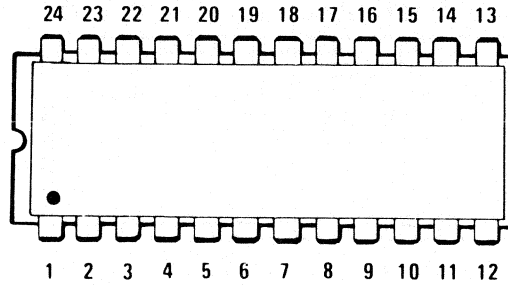
Pin	eb	ec	ed	ee	ef	eg	eh	ei	ej	ek	em	en [Ⓢ]	eo [Ⓢ]	ep
1	A7	A7	A7	A7	A7	A7	A7	A7	A7	MA7	MA7	A7	A7	GND
2	A6	A6	A6	A6	A6	A6	A6	A6	A6	MA6	MA6	A6	A6	O1
3	A5	A5	A5	A5	A5	A5	A5	A5	A5	MA5	MA5	A5	A5	O2
4	A4	A4	A4	A4	A4	A4	A4	A4	A4	MA4	MA4	A4	A4	O3
5	A3	A3	A3	A3	A3	A3	A3	A3	A3	MA3	MA3	A3	A3	O4
6	A2	A2	A2	A2	A2	A2	A2	A2	A2	MA2	MA2	A2	A2	O5
7	A1	A1	A1	A1	A1	A1	A1	A1	A1	MA1	MA1	A1	A1	O6
8	A0	A0	A0	A0	A0	A0	A0	A0	A0	MA0	MA0	A0	A0	O7
9	O1	O1	O1	O1	O1	O1	O1	O1	O1	BUS0	BUS0	O1	O1	O8
10	O2	O2	O2	O2	O2	O2	O2	O2	O2	BUS1	BUS1	O2	O2	CS0
11	O3	O3	O3	O3	O3	O3	O3	O3	O3	BUS2	BUS2	O3	O3	CS1
12	GND	GND	GND	GND	GND	GND	GND	GND	GND	VSS	VSS	GND	GND	VCC
13	O4	O4	O4	O4	O4	O4	O4	O4	O4	BUS3	BUSS3	O4	O4	CS2
14	O5	O5	O5	O5	O5	O5	O5	O5	O5	BUS4	BUS4	O5	O5	A10
15	O6	O6	O6	O6	O6	O6	O6	O6	O6	BUS5	BUS5	O6	O6	A9
16	O7	O7	O7	O7	O7	O7	O7	O7	O7	BUS6	BUS6	O7	O7	A8
17	O8	O8	O8	O8	O8	O8	O8	O8	O8	BUS7	BUS7	O8	O8	A7
18	E4	NC	E4	NC	E3	O9	E4	E4	O9	CE0	CS2	A11	A11	A6
19	E3	NC	E3	NC	E2	O10	E3	E3	E3	MRD	NC	A10	A10	A5
20	P/E2	E2	P/E2	P/E2	E1	E2	E2	P/E2	E2	CS2	CS1	CS1	CS	A4
21	E1	NC	E1	NC	A10	E1	E1	E1	E1	CS1	NC	CS2	A12	A3
22	NC	A9	A9	A9	A9	A9	NC	NC	A9	CE1	MA9	A9	A9	A2
23	A8	A8	A8	A8	A8	A8	NC	NC	A8	MUX	MA8	A8	A8	A1
24	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VDD	VDD	VCC	VCC	A0

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(Cont.)

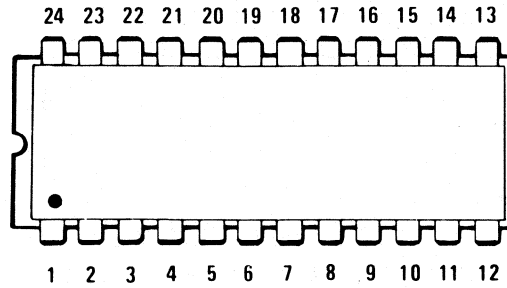
Pin	eq	er	es	ef	eu	ev	ew	ex [®]	ey	ez	fa	fb	fc	fd
1	GND	GND	A7	O6	A7	A7	A7	A7	A7	A7	$\overline{\text{CS}}$	$\overline{\text{CS}}$	$\overline{\text{CS}}$	A7
2	O1	O1	A6	O7	A6	A6	A6	A6	A6	A6	A0	A0	A0	A6
3	NC	O2	A5	O8	A5	A5	A5	A5	A5	A5	A1	A1	A1	A5
4	O2	O3	A4	O9	A4	A4	A4	A4	A4	A4	A2	A2	A2	A4
5	NC	O4	A3	VDD	A3	A3	A3	A3	A3	A3	A3	SA	A3	A3
6	O3	O6	A2	A4	A2	A2	A2	A2	A2	A2	A4	A3	A4	A2
7	NC	O6	A1	A3	A1	A1	A1	A1	A1	A1	A5	A4	A5	A1
8	O4	O7	A0	A2	A0	A0	A0	A0	A0	A0	A6	A5	A6	A \emptyset
9	NC	O8	O1	A1	O1	O1	O1	O1	O1	O0	A7	A6	A7	O \emptyset
10	CS0	CS1	O2	OE	O1	O2	O2	O2	O2	O1	PG	A7	A8	O2
11	CS1	CS2	O3	A5	O2	O3	O3	O3	O3	O2	VCL	\emptyset	A9	O3
12	VCC	VCC	GND	VGG	VSS	VSS	GND	GND	GND	VSS	VBB	VBB	VBB	VSS
13	A11	CS3	O4	A6	O2	O4	O4	O4	O4	O3	VSS	VSS	VSS	O3
14	A10	CS4	O5	A7	O3	O5	O5	O5	O5	O4	VDD	VDD	VDD	O4
15	A9	A9	O6	A8	O3	O6	O6	O6	O6	O5	VGG	4/8	O7	O5
16	A8	A8	O7	A9	O4	O7	O7	O7	O7	O6	DI/O7	O7	O6	O6
17	A7	A7	O8	A10	O4	O8	O8	O8	O8	O7	DI/O6	O6	O5	O7
18	A6	A6	E4	R	PROG	PROG	NC	CS3/PS3	A11	VSS	DI/O5	O5	O4	VER
19	A5	A5	E3	O1	VDD	VDD	A10	CS2/PS2	A10	VDD	DI/O4	O4	O3	VPG
20	A4	A4	$\overline{\text{E2}}$	O2	STR	STR	$\overline{\text{CE}}$	$\overline{\text{CS1/PS1}}$	$\overline{\text{CS}}$	$\overline{\text{CS}}$	DI/O3	O3	O2	$\overline{\text{CS}}$
21	A3	A3	$\overline{\text{ET}}$	O3	$\overline{\text{CS}}$	$\overline{\text{CS}}$	NC	A10	A12	VBB	DI/O2	O2	O1	VBB
22	A2	A2	A9	O4	A9	CE	A9	A9	A9	A9	DI/O1	O1	O0	A9
23	A1	A1	A8	O5	A8	A8	A8	A8	A8	A8	DI/O0	O0	$\overline{\text{RE}}$	A8
24	A0	A0	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN24



PN24(Cont.)

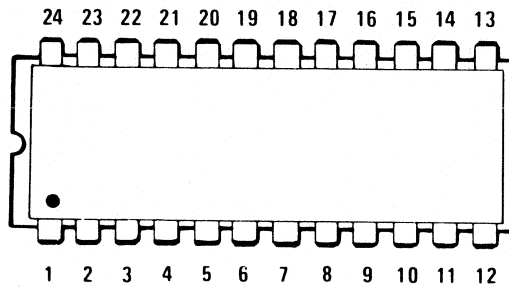
Pin	fe	ff	fg	fh	fi	fj	fk	fm	fn	fo	fp	fq	fr	fs
1	A7	A7	R1	L1	S0	S0	VGG	NC	OUTINH	A1	VCC	VBB	A7	CS3
2	A6	A6	R2	L2	B7	B7	0C	NC	NC	A2	Cout	VDD	A6	VCC
3	A5	A5	NC	L0	B6	B6	CE	NC	O8	A3	OB1	VGG	A5	CS4
4	A4	A4	R3	NC	B5	B5	\overline{TC}	O1	O7	A4	OB2	A7	A4	A6
5	A3	A3	A4	NC	B4	B4	$\overline{O1}$	O2	O6	A5	OB3	B2	A3	Dout5
6	A2	A2	A5	NC	B3	O2	$\overline{O3}$	O5	A6	OB4	B4	A2	A2	Dout3
7	A1	A1	I	B1	B2	B2	$\overline{O3}$	O4	O4	C/CLK	OB5	B6	A1	Dout1
8	A0	A0	DCout	B2	B1	B1	$\overline{O4}$	O5	O3	C/R	OB6	A6	A0	A5
9	O1	O1	NC	B3	O1	O1	$\overline{O5}$	NC	O2	NC	OB7	A5	O1	A4
10	O2	O2	CE	B4	O2	O2	$\overline{O6}$	GND	O1	C/C	OB8	NC	O2	CS1
11	O3	O3	B1	B5	O3	O3	$\overline{O7}$	OUTINH	GND	C/O	OB9	A4	O3	A3
12	GND	GND	GND	VSS	GND	GND	VDD	NC	NC	VDD	VGI	A3	VSS	A2
13	O4	O4	B2	NC	O4	O4	A1	NC	NC	O7	OE1	VSS	O4	VSS
14	O5	O5	B3	CE	O5	O5	A2	A1	A1	O6	OE2	NC	O5	CS2
15	O6	O6	NC	VGG	O6	O6	A4	A2	A2	O5	FRC	A1	O6	A0
16	O7	O7	NC	A0	O7	O7	A8	A3	A3	O4	C/R	A2	O7	A1
17	O8	O8	B4	A1	NC	O8	A16	A4	A4	O3	C/CLK	B7	O8	Dout0
18	A11	CS2/CS2	B5	A2	NC	O9	A32	A5	A5	O2	VGG	B5	OE2/OE2	Dout2
19	A10	A10	A3	A3	$\overline{E2}$	$\overline{E2}$	\overline{RSTA}	A6	A6	O1	IA6	B3	VDD	Dout4
20	CS1/CS1	CS1/CS1	A2	A4	$\overline{E1}$	$\overline{E1}$	CP	A7	A7	NC	IA5	B1	\overline{OET}	Dout6
21	CS2/CS2	CS2/CS3	NC	A5	S3	S3	\overline{RSTB}	A8	A8	OE	IA4	RS1	VBB	RS0
22	A9	A9	NC	NC	S2	S2	M2	A9	A9	BLNKIn	IA3	RS2	A9	RS1
23	A8	A8	A1	NC	S1	S1	M1	NC	NC	VGG	IA2	RS3	A8	RS2
24	VCC	VCC	VCC	VDD	VCC	VCC	VCC	VCC	VCC	VCC	IA1	RS4	VCC	RS3

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(Cont.)

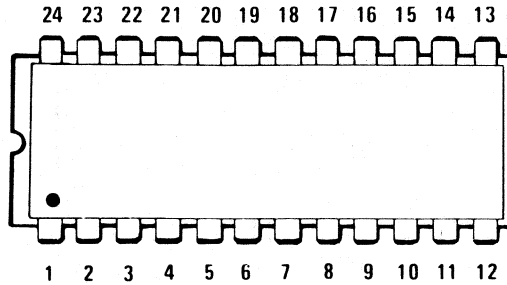
Pin	ft	fu	fv	fw	fx [Ⓞ]	fy [Ⓞ]	fz [Ⓞ]	ga [Ⓞ]	gb	gc	gd	ge [Ⓞ]	gf	gg
1	VGG	CE	A4	A3	Clk1	Clk1	Clk1	Clk1	S0	B8	D0	P2	\overline{CS}	\overline{CS}
2	NC	NC	A5	A2	D1	$\overline{D1}$	D1	$\overline{D1}$	SRSI	B7	Q0	P1	\overline{SHClk}	\overline{Clk}
3	NC	O8	A6	A1	D2	$\overline{D2}$	D2	$\overline{D2}$	InA	B6	Q1	P0	$\overline{R/W}$	$\overline{R/W}$
4	O1	O7	A7	B1	D3	$\overline{D3}$	D3	$\overline{D3}$	QA	B5	Q2	D0	STCIR	NC
5	O2	O6	A8	B2	D4	$\overline{D4}$	D4	$\overline{D4}$	InB	B4	Q3	Q0	STClk	MC
6	O3	O5	A9	B3	D5	$\overline{D5}$	D5	$\overline{D5}$	QB	B3	VCC	Q1	DI/O	DI/O
7	O4	O4	A10	B4	D6	$\overline{D6}$	D6	$\overline{D6}$	InC	B2	VCCA	Q2	Y0	P0
8	O5	O3	O1	B5	D7	$\overline{D7}$	D7	$\overline{D7}$	QC	B1	Q4	Q3	Y1	P1
9	NC	O2	O2	B6	D8	$\overline{D8}$	D8	$\overline{D8}$	InD	EA	Q5	VCC	Y2	P2
10	GND	O1	O3	B7	D9	$\overline{D9}$	D9	$\overline{D9}$	QD	DS	Q6	VCCA	Y3	P3
11	CE	GND	O4	B8	D10	$\overline{D10}$	D10	$\overline{D10}$	Clk	A/B	Q7	Q4	Y4	P4
12	VDD	VDD	GND	VSS	GND	GND	GND	GND	GND	VSS	D7	Q5	GND	GND
13	NC	NC	O5	A9	Q10	Q10	Q10	Q10	CLR	P/S	P7	Q6	Y5	P5
14	A1	A1	O6	CE	Q9	Q9	Q9	Q9	QE	A/S	P6	Q7	Y6	P6
15	A2	A2	O7	MC	Q8	Q8	Q8	Q8	InE	Clk	P5	D7	Y7	P7
16	A3	A3	O8	VGG	Q7	Q7	Q7	Q7	QF	A1	P4	P7	Y8	P8
17	A4	A4	O9	A8	Q6	Q6	Q6	Q6	InF	A2	CP	P6	Y9	P9
18	A5	A5	CS1	A7	Q5	Q5	Q5	Q5	A3	A3	VEE	P5	Y10	P10
19	A6	A6	CS2	A6	Q4	Q4	Q4	Q4	InG	A4	S0	P4	Y11	P11
20	A7	A7	A0	A5	Q3	Q3	Q3	Q3	QH	A5	S1	CP	Y12	P12
21	A8	A8	A1	A4	Q2	Q2	Q2	Q2	InH	A6	P3	VEE	Y13	P13
22	A9	A9	A2	NC	Q1	Q1	Q1	Q1	SLSI	A7	P2	S0	Y14	P14
23	NC	VGG	A3	NC	Clk2	Clk2	RST	RST	SI	A8	P1	S1	Y15	P15
24	VCC	VCC	VCC	VDD	VCC	VCC	VCC	VCC	VCC	VDD	P0	P3	VCC	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(Cont.)

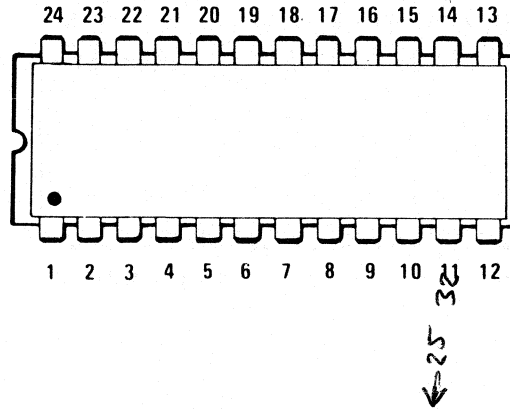
Pin	gh	gi [Ⓞ]	gj	gk	gm	gn	go	gp	gq	gr	gs	gt	gu [Ⓞ]	gv
1	$\overline{Q5}$	D4	I3	\overline{WE}	I4	A7	VSS	VSS	InA3	MC	A0	MK3	D2	A7
2	Q4	D5	I4	$\overline{D3}$	I5	A6	VGG	VGG	InA2	CE1	A1	M0	MK2	A6
3	Q4	Q5	I5	$\overline{D2}$	I6	A5	O1	O1	InA1	CE2	A2	M1	D3	A5
4	$\overline{Q3}$	$\overline{Q5}$	I6	$\overline{D1}$	I7	A4	O2	O2	OB1	A10	A3	M2	MK3	A4
5	Q3	Q4	I7	$\overline{D0}$	I8	A3	O3	O3	OB2	A1	A4	M3	M0	A3
6	VCC	Q4	I8	M3	I9	A2	O4	O4	OB3	A2	A5	VCC	M1	A2
7	VCCA	$\overline{Q3}$	I9	M2	I10	A1	In1	O5	OB4	A3	A6	VCCA	M2	A1
8	$\overline{Q2}$	Q3	I10	M1	I11	A0	In2	O6	OB5	A4	\overline{R}	Q3	M3	A0
9	Q2	VCC	I11	M0	I12	O1	In3	B1	OB6	A5	\overline{W}	Q2	VCC	O1
10	$\overline{Q1}$	VCCA	I12	$\overline{M0}$	I13	O2	In4	B2	OB7	A6	\overline{E}	Q1	VCCA	O2
11	Q1	$\overline{Q2}$	I13	$\overline{O1}$	I14	O3	In5	B3	OB8	A7	CS	Q0	Q3	O3
12	$\overline{Q0}$	Q2	GND	GND	GND	VSS	In6	B4	VSS	VSS	GND	MK1	Q2	VSS
13	Q0	$\overline{Q1}$	F0	$\overline{O0}$	F1	O4	In7	B5	NC	A8	VDD	D1	D0	O4
14	D0	Q1	F1	$\overline{O2}$	F2	O5	In8	B6	InA8	A9	VP	MK0	MK0	O5
15	D1	$\overline{Q0}$	F2	$\overline{O3}$	F3	O6	In9	B7	CE	B1	R/C	D0	D1	O6
16	D2	Q0	F3	$\overline{A0}$	F4	O7	In10	B8	MC	B2	D7	A3	MK1	O7
17	D3	D0	F4	$\overline{A1}$	F5	O8	In11	O7	VGG	B3	D6	A2	Q0	O8
18	VEE	D1	F5	$\overline{A2}$	F6	CS2/CS2	In12	O8	InA7	B4	D5	VEE	Q1	CS2
19	MR	D2	F6	$\overline{A3}$	F7	VDD	O8	O9	InA6	B5	D4	\overline{WS}	A3	A10
20	CP _a	D3	F7	$\overline{E0}$	F8	CS1/CS1	O7	O10	InA5	B6	D3	A1	A2	CS1
21	CP _b	VEE	I0	$\overline{E1}$	I1	A10	O6	O11	InA4	B7	D2	A0	VEE	A11
22	D4	MR	I1	$\overline{E2}$	I2	A9	O5	O12	NC	B8	D1	D2	\overline{WS}	A9
23	D5	CP _a	I2	$\overline{E3}$	I3	A8	ERDB	ER	NC	VGG	D0	MK2	A1	A8
24	Q5	CP _b	VCC	VCC	VCC	VCC	CLKIn	CLKIn	VDD	VLL	VCC	D3	A0	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(Cont.)

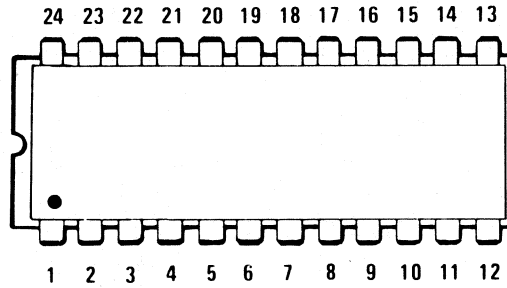
Pin	gw	gx [Ⓞ]	gy	gz	ha	hb	hc	hd	he	hf [Ⓞ]	hg	hh	hi	hj
1	NC	A3	A3	A7	A7	A7	A7	A7	A7	NC	A7	A7	A7	A1
2	CS2	A2	A4	A6	A6	A6	A6	A6	A6	\overline{WE}	A6	A6	A6	W
3	CS3	A1	A5	A5	A5	A5	A5	A5	A5	\overline{CS}	A5	A5	A5	BIn1
4	O0	A0	A6	A4	A4	A4	A4	A4	A4	D10	A4	A4	A4	BIn2
5	O1	A5	A7	A3	A3	A3	A3	A3	A3	D11	A3	A3	A3	BIn3
6	O2	A6	A8	A2	A2	A2	A2	A2	A2	D12	A2	A2	A2	BIn4
7	O3	NC	Q0	A1	A1	A1	A1	A1	A1	D13	A1	A1	A1	BIn5
8	O4	A7	Q1	A0	A0	A0	A0	A0	A0	NC	A0	A0(LSB)	A0	BIn6
9	O5	NC	Q2	OD	D0	D0	D0	DQ0	DQ0	VCC	O1	O1(LSB)	DQ0	BIn7
10	O6	NC	Q3	O1	D1	D1	D1	DQ1	DQ1	VCC0	O2	O2	DQ1	BIn8
11	O7	NC	NC	O2	D2	D2	D2	DQ2	DQ2	DO0	O3	O3	DQ2	MBY
12	VSS	VSS	GND	GND	GND	GND	GND	VSS	VSS	DO1	VSS	GND	VSS	GND
13	A8	OD	NC	O3	D3	D3	D3	DQ3	DQ3	DO2	O4	O4	DQ3	Bout8
14	A7	$\overline{CE2}$	Q4	O4	D4	D4	D4	DQ4	DQ4	DO3	O5	O5	DQ4	Bout7
15	A6	NC	Q5	O5	D5	D5	D5	DQ5	DQ5	NC	O6	O6	DQ5	Bout6
16	A5	DI/O1	Q6	O6	D6	D6	D6	DQ6	DQ6	A0	O7	O7	DQ6	Bout5
17	A4	DI/O2	Q7	O7	D7	D7	D7	DQ7	DQ7	A1	O8	O8(MSB)	DQ7	Bout4
18	A3	DI/O3	ST	A11	PD/PGM	A11	CS2	A11	A11	NC	OE2/OE2	CS3	CS	Bout3
19	A2	DI/O4	E2	A10	A10	A10	A10	A10	A10	A2	VDD	CS2	A10	Bout2
20	A1	$\overline{CE1}$	\overline{ET}	\overline{CE}	\overline{CS}	CS1	CS1	E/VPP	$\overline{E/PROG}$	A3	$\overline{OE1}$	$\overline{CS1}$	\overline{OE}	Bout1
21	A0	\overline{WE}	A0	VPP	VPP	CS2	A11	A12	VPP	VEE	VBB	A10(MSB)	\overline{WE}	RInH
22	CS0	NC	A1	A9	A9	A9	A9	A9	A9	NC	A9	A9	A9	ClInH
23	CS1	A4	A2	A8	A8	A8	A8	A8	A8	A4	A8	A8	A8	A0
24	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	A5	VCC	VCC	VCC	VDD

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24(Cont.)

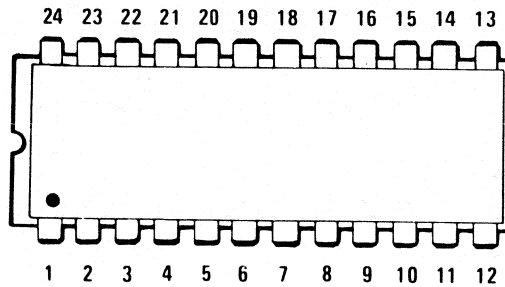
Pin	hk	hm	hn	ho	hp	hq	hr	hs	ht	hu	hv	hw	hx	hy
1	WD1	MA7	A7	A7	A7	MA7	A7	A7	NC	A7	A7	A7	A7	A7
2	W	MA6	A6	A6	A6	MA6	A6	A6	SO	A6	A6	A6	A6	A6
3	BIn1	MA5	A5	A5	A5	MA5	A5	A5	VCC	A5	A5	A5	A5	A5
4	BIn2	MA4	A4	A4	A4	MA4	A4	A4	LS	A4	A4	A4	A4	A4
5	BIn3	MA3	A3	A3	A3	MA3	A3	A3	PRST	A3	A3	A3	A3	A3
6	BIn4	MA2	A2	A2	A2	MA2	A2	A2	L1	A2	A2	A2	A2	A2
7	BIn5	MA1	A1	A1	A1	MA1	A1	A1	CLR	A1	A1	A1	A1	A1
8	BIn6	MA0	A0	A0	A0	MA0	A0	A0	L2	A0	A0	A0	A0	A0
9	BIn7	BUS0	O0	O1	O1	DO0	DO1	O1	L4	Q1	Q0	Q0	Q0	Q0
10	BIn8	BUS1	O1	O2	O2	DO1	DO2	O2	L8	Q2	Q1	Q0	Q1	Q1
11	MBY	BUS2	O2	O3	O3	DO2	DO3	O3	A1	Q3	Q2	Q1	Q2	Q2
12	GND	VSS	GND	VSS	GND	VSS	VSS	VSS	A2	GND	GND	VSS	VSS	GND
13	Bout8	BUS3	O3	O4	O4	DO3	DO4	O4	A3	Q4	Q3	Q1	Q3	Q3
14	Bout7	BUS4	O4	O5	O5	DO4	DO5	O5	A4	Q5	Q4	Q2	Q4	Q4
15	Bout6	BUS5	O5	O6	O6	DO5	DO6	O6	A5	Q6	Q5	Q2	Q5	Q5
16	Bout5	BUS6	O6	O7	O7	DO6	DO7	O7	A6	Q7	Q6	Q3	Q6	Q6
17	BUS7	O7	O8	O8	DO7		DO8	O8	A7	Q8	Q7	Q3	Q7	Q7
18	Bout3	CEO	CS2	NC	A11	NC	CS2	A11	LC1	A11	S2	PROG	PROG	A11
19	Bout2	MRD	A10	NC	A10	NC	A10	A10	AS	A10	A10	VDD	VDD	A10
20	Bout1	CS2	CS1	CS	CS/CS	CS	CS1	CS1/CS1	CUR	CS1/CS1	E	E1	E1	E
21	WD2	CS1	A11	NC	A12	NC	CS3	CS2/CS2	Clk	CS2/CS2	S1	S	S1	A12
22	WD4	NC	A9	NC	A9	NC	A9	A9	NC	A9	A9	A9	E2	A9
23	WD3	MUX	A8	A8	A8	MA8	A8	A8	PE	A8	A8	A8	A8	A8
24	VDD	VDD	VCC	VDD	VCC	VCC	VDD	VCC	GND	VCC	VCC	VCC	VCC	VCC

PN24(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
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PN24



PN24 (Cont.)

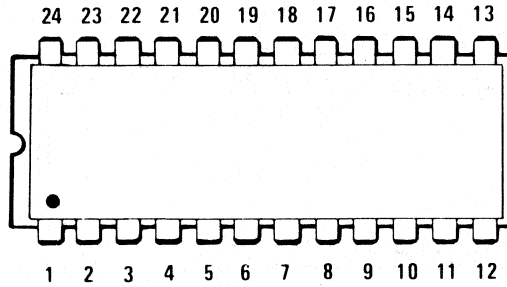
Pin	hz [®]	ia	ib	ic	id	ie	if	ig	ih	ii	ij	ik	il	im
1	A7	A7	A3	A3	\bar{E}	A7	A7	VCC0	DI4	A7	A7	BUS0	A4	A7
2	A6	A6	A2	A2	D0	A6	A6	DO1	$\bar{BS3}$	A6	A6	BUS1	A3	A6
3	A5	A5	A1	A1	CC	A5	A5	$\bar{BS1}$	DO3	A5	A5	BUS2	A2	A5
4	A4	A4	A0	A0	Q0	A4	A4	DO2	$\bar{BS4}$	A4	A4	BUS3	A1	A4
5	A3	A3	L3	L3	Q1	A3	A3	$\bar{BS2}$	DO4	A3	A3	BUS4	A0	A3
6	A2	A2	L2	L2	Q2	A2	A2	DI1	VCC	A2	A2	BUS5	R2	A2
7	A1	A1	L1	L1	Q3	A1	A1	DI2	VCC0	A1	A1	BUS6	R1	A1
8	A0	A0	L0	L0	Q4	A0	A0	\bar{WE}	DO1	A0	A0	BUS7	R0	A0
9	O1	O0, Q0	NC	NC	Q5	O0	O0	A5	$\bar{BS1}$	I/O1	D0	$\bar{CS1}$	D7	O1
10	O2	O1, Q1	NC	O1	NC	O1	O1	A6	DO2	I/O2	D1	$\bar{CS2}$	D6	O2
11	O3	O2, Q2	NC	O2	D	O2	O2	A7	$\bar{BS2}$	I/O3	D2	$\bar{CS3}$	D5	O3
12	GND	VSS	GND	GND	GND	GND	GND	VEE	DI1	GND	GND	VSS	GND	GND
13	O4	O3, Q3	O1	O3	CP	O3	O3	A0	DI2	I/O4	D3	CS4	D4	O4
14	O5	O4, Q4	O2	O4	\bar{S}	O4	O4	A1	\bar{WE}	I/O5	D4	$\bar{CS5}$	D3	O5
15	O6	O5, Q5	O3	O5	NC	O5	O5	A2	A5	I/O6	D5	\bar{MRD}	D2	O6
16	O7	O6, Q6	O4	O6	Q6	O6	O6	A3	A6	I/O7	D6	\bar{MWR}	D1	O7
17	O8	O7, Q7	O5	O7	Q7	O7	O7	A4	A7	I/O8	D7	MA6	D0	O8
18	CE4	\bar{CE}, F	$\bar{CS2}$	$\bar{CS2}$	Q8	CS2	A11	DI3	VEE	$\bar{CE2}$	CS/ \bar{CS}	MA5	$\bar{CS2}$	CS3
19	CE3	A10	A6	A6	Q9	A10	A10	DI4	A0	A10	A10	MA4	R3	CS2
20	CE2	\bar{OE}, G	$\bar{CS1}$	$\bar{CS1}$	Q10	CS1	CS	$\bar{BS3}$	A1	$\bar{CE1}$	\bar{OE}	MA3	$\bar{CS1}$	CS1
21	CE1	VPP	CS3	CS3	Q11	A11	A12	DO3	A2	R/W	A11	MA2	CS3	A10
22	NC	A9	A5	A5	NC	A9	A9	$\bar{BS4}$	A3	A9	A9	MA1	A6	A9
23	A8	A8	A4	A4		A8	A8	DO4	A4	A8	A8	MA0	A5	A8
24	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	DI3	VDD	VCC	VDE	VCC	VCC

PN24 (cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24



PN24 (cont.)

Pin	in	io	ip	iq	ir	is	it	iu	iv	iw	ix	iy	iz	ja
1	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7	A7
2	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6	A6
3	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5	A5
4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4	A4
5	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3
6	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2	A2
7	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1
8	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0	A0
9	Q0	O0	O0	DQ0	DQ0	Q0	Q0	Q0	Q0	Q0	Q0	Q0	Q0	Q0
10	Q1	O1	O1	DQ1	DQ1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1	Q1
11	Q2	O2	O2	DQ2	DQ2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2	Q2
12	GND	GND	GND	VSS	VSS	GND	GND	GND	GND	GND	GND	GND	GND	GND
13	Q3	O3	O3	DQ3	DQ3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3
14	Q4	O4	O4	DQ4	DQ4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4	Q4
15	Q5	O5	O5	DQ5	DQ5	Q5	Q5	Q5	Q5	Q5	Q5	Q5	Q5	Q5
16	Q6	O6	O6	DQ6	DQ6	Q6	Q6	Q6	Q6	Q6	Q6	Q6	Q6	Q6
17	Q7	O7	O7	DQ7	DQ7	Q7	Q7	Q7	Q7	Q7	Q7	Q7	Q7	Q7
18	CP	CS4	CS4	\overline{CE}	\overline{CE}	G2	G2	E2	C \uparrow	G2	N.C	E2	C \uparrow	G2
19	\overline{ES}	CS3	CS3	NC	A10	G3	G3	E3	G2SYNC	G3	N.C	E3	G2SYNC	G3
20	\overline{CLR}	$\overline{CS2}$	$\overline{CS2}$	\overline{OE}	\overline{OE}	$\overline{G1}$	$\overline{G1}$	E1	$\overline{G1}$	$\overline{G1}$	\overline{G}	E1	$\overline{G1}$	$\overline{G1}$
21	E	$\overline{CS1}$	$\overline{CS1}$	\overline{WE}	\overline{WE}	$\overline{G2}$	$\overline{G4}$	E4	G3	$\overline{G4}$	N.C	E4	G3	A10
22	\overline{PS}	NC	A9	A9	A9	NC	G5	E5	N.C	A9	A9	A9	A9	A9
23	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8	A8
24	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC

PN24 (cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN24

PN24 (cont.)

Pin	jb	jc	jd [ⓐ]	je [ⓑ]	jf [ⓒ]	ig	jh	i	il					
1	A7	A7	A7	A7	A7	A7	VCC	A7	A7					
2	A6	A6	A6	A6	A6	A6	X0	A6	A6					
3	A5	A5	A5	A5	A5	A5	X1	A5	A5					
4	A4	A4	A4	A4	A4	A4	X2	A4	A4					
5	A3	A3	A3	A3	A3	A3	X3	A3	A3					
6	A2	A2	A2	A2	A2	A2	X4	A2	A2					
7	A1	A1	A1	A1	A1	A1	X5	A1	A1					
8	A0	A0	A0	A0	A0	A0	A	A0	A0					
9	Q0	Q0	DQ1	Q1	Q1	O1	B	D0	O0					
10	Q1	Q1	DQ2	Q2	Q2	O2	C	D1	O1					
11	Q2	Q2	DQ3	Q3	Q3	O3	D	D2	O2					
12	GND	GND	VSS	VSS	VSS	VSS	E	GND	GND					
13	Q3	Q3	DQ4	Q4	Q4	O4	F	D3	O3					
14	Q4	Q4	DQ5	Q5	Q5	O5	G	D4	O4					
15	Q5	Q5	DQ6	Q6	Q6	O6	H	D5	O5					
16	Q6	Q6	DQ7	Q7	Q7	O7	I	D6	O6					
17	Q7	Q7	DQ8	Q8	Q8	O8	J	D7	O7					
18	E2	C [†]	\overline{CS}	PD/PGM	A11	CS2/CS2	K	CS2	\overline{CE} /PGM					
19	E3	G2SYNC	AR	AR	A10	A10	L	NC	A10					
20	$\overline{E1}$	$\overline{G1}$	\overline{OE}	\overline{CS}	S	CS1/CS1	M	CS1	\overline{OE}					
21	A10	A10	\overline{W}	VPP	A12	A11	N	NC	NPP					
22	A9	A9	A9	A9	A9	A9	CS1	A9	A9					
23	A8	A8	A8	A8	A8	A8	CS2	A8	A8					
24	VCC	VCC	VCC	VCC	VCC	VCC	GND	VCC	VCC					

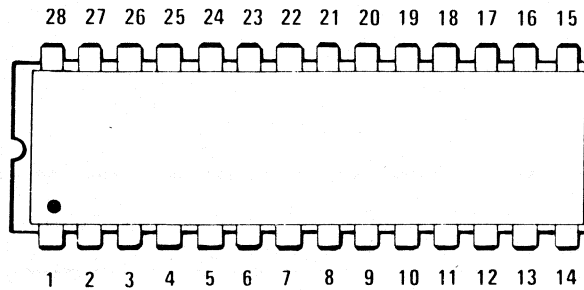
Registry Control #'s

- ⓐ - Can Type Only.
- ⓑ - Also Available in Can Type by some Mfgs. See Type #Outline Dr.
- ⓒ - Flat Pack.
- ⓓ - Also Available in Flat Pack by some Mfgs. See Type #Outline Dr.
- ⓔ - Pin 13 is also the programming pin.
- ⓕ - Pin 15 is also the programming pin.
- ⓖ - CS1/CS1/NC Programmable CS.
- ⓗ - CS2/CS2/NC Programmable CS.
- Ⓢ - CS3/CS3/NC.
- Ⓣ - Connect Substrate Externally to Ground.
- Ⓤ - PIN 18, 20, 21 has optional CS & NC.
- Ⓥ - PIN 20 is also programming pin.
- Ⓦ - PIN 20, 21 has optional CS & NC.
- Ⓧ - PIN 20 has optional CS & NC.
- Ⓨ - PIN 1-6 & 7-11 & 23 all common.
- Ⓩ - PIN 1-11 all common.
- ⓐ - PIN 18 & 20 has optional CS & NC.
- ⓑ - PIN 22 - Norm. Open; Conn to VCC During Prog.

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN28



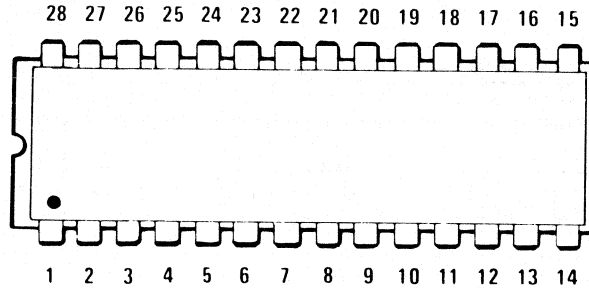
Pin	a	b	c	d	e	f	g	h	i	j	k	m	n	o	p	q	r
1	A3	A3	O2	D1	O11	O12	LS1	A7	W4	VBB	VBB	DI/O1	VSS	VBB	NC	FE+	D1
2	A4	A4	O3	C4	O10	O11	CS2	A6	W3	NC	A10	DI/O2	D0	CS3	A12	I7	D2
3	A5	A5	O4	VSS	O9	O10	A0	A5	W2	A9	A9	DI/O3	D1	A7	A7	I6	D3
4	D0	DI0	A1	O1	O8	O9	A1	A4	W1	A8	A8	DI/O4	D2	A6	A6	I5	D4
5	D1	DI1	A2	O2	O7	O8	A2	A3	VDD	A7	A7	DI/O5	D3	A5	A5	I4	D5
6	D2	DI2	D1	O4	O6	O7	A3	A2	NC	A6	A6	DI/O6	D4	A4	A4	I3	D6
7	D3	DI3	D2	O3	O5	O6	A4	A1	VSS	A5	A5	VGI	D5	A3	A3	I2	VCC
8	D4	DI4	D3	O5	O4	O5	A5	A0	A5	A4	A4	DI/O7	D6	A2	A2	I1	D7
9	D5	DI5	D4	O6	O3	O4	A6	O1	A0	A3	A3	DI/O8	D7	A1	A1	I0	D8
10	D6	DI6	D5	O7	O2	O3	A7	O2	A1	A2	A2	DI/O9	NC	A0	A0	F7	D9
11	D7	DI7	D6	O8	O1	O2	A8	O3	A2	A1	A1	DI/O10	CE	D0	O0	F6	D10
12	D8	DI8	D7	VSS	VD0	O1	A9	VSS	A3	NC	NC	DI/O11	CS0	O1	O1	F5	D11
13	WE	WE	D8	A2	A11	VDD	A10	VCG	A4	NC	NC	DI/O12	CS1	D2	O2	F4	D12
14	GND	GND	NC	A1	A10	CS3	VBB	VBB	IN1	GND	GND	DI/O13	VCC	GND	GND	GND	D13
15	CS	CS	NC	B1	A9	CS2	VSS	PG	E2	O1	O1	DI/O14	CS2	D3	O3	F3	D14
16	O8	DO8	NC	B2	C1	CS1	VDD	VCL	E1	O2	O1	DI/O15	CS3	D4	O4	F2	D15
17	O7	DO7	VSS	B3	A6	CE	O7	O4	Out1	O3	O2	VSS	A11	D5	O5	F1	VSS
18	O6	DO6	C4	B4	A5	NC	O6	O5	BOOST	O4	O2	CLK	A10	D6	O6	F0	CLK
19	O5	DO5	C2	C1	A4	A6	O5	O6	EQLZ	O5	O3	A0	A9	D7	O7	FLAG	A0
20	O4	DO4	C3	C3	A3	A5	O4	O7	Out2	O6	O3	A1	A8	A11	CE	I15	A1
21	O3	DO3	C1	C2	A2	A4	O3	O8	In2	O7	O4	A2	A7	A10	A10	I14	A2
22	O2	DO2	B4	D8	A1	A3	O2	NC	WCON	O8	O4	A3	A6	CE	OE	I13	A3
23	O1	DO1	B2	D7	A7	VSS	O1	VDD	NC	O9	O5	A4	A5	CS1	A11	I12	A4
24	O0	DO0	B3	D6	A8	A2	O0	CS	NC	O10	O5	VGG	A4	A9	A9	I11	VGG
25	A0	A0	B1	D5	NC	A1	RE	NC	W8	CS	CS	C1	A3	A8	A8	I10	C1
26	A1	A1	A4	D4	VSS	A7	CS4	A9	W7	∅	∅	C2	A2	VCC	CS	I9	C2
27	A2	A2	A3	D3	NC	A8	CS3	A8	W6	VCC	VCC	CS	A1	CS2	CS	I8	CS
28	VCC	VCC	O1	D2	O12	V1	VCC	VCC	W5	VDD	VDD	DI/O0	A0	VDD	VCC	VCC	D0

PN28(Cont.)

24. PIN CONNECTIONS

IN PIN NUMBER
SEQUENCE

PN28



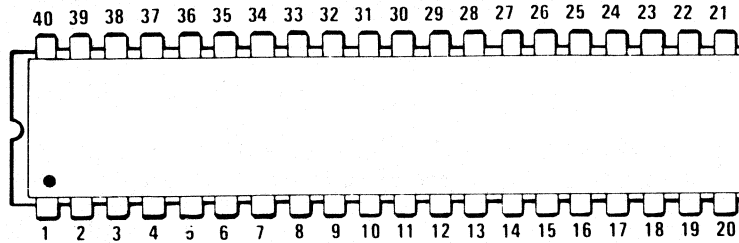
PN28(Cont)

Pin	s	t	u	v	w	x	y	z	aa	ab	ac	ad	ae	af	ag
1	$\overline{CS1}$	VBP	VBB	D0	D0	VGG	FE	VP	I7	\overline{COUNT}	VCC	NC	\overline{F}	\overline{RFSH}	LA0
2	$\overline{CS2}$	A10	NC	VGG	VGG	\overline{OE}	I7	A7	I6	RFR/E	X1	A7	A7	A7	CA0
3	A0	A9	A9	OR	OR	Q0	I6	A6	I5	ROW/E	X2	A6	A6	A6	CA1
4	A1	A8	A8	\overline{MR}	\overline{MR}	Q1	I5	A5	I4	NC	X3	A5	A5	A5	CA2
5	A2	A7	A7	PD	PP	Q2	I4	A4	I3	A1	X4	A4	A4	A4	CA3
6	A3	A6	A6	SD	Q0	Q3	I3	A3	I2	A8	X5	A3	A3	A3	CStrobe
7	A4	A5	A5	Q0	Q1	Q4	I2	A2	I1	A2	NC	A2	A2	A2	CA4
8	A5	A4	A4	Q1	Q2	Q5	I1	A1	I0	A9	a1	A1	A1	A1	CA5
9	A6	A3	A3	Q2	Q3	Q6	I0	A0	F8	A0	a2	A0	A0	A0	CA6
10	A7	A2	A2	Q3	OE	Q7	F7	O8	F7	A7	b	D0	DQ0	DQ0	CA7
11	A8	A1	A1	OE	Q4	Q8	F6	O7	F6	$\overline{O0}$	c	D1	DQ1	DQ1	GM
12	A9	NC	NC	Q4	Q5	OR	F5	O6	F5	$\overline{O2}$	d1	D2	DQ2	DQ2	SCD
13	A10	NC	NC	Q5	Q6	SO	F4	O5	F4	$\overline{O1}$	d2	GND	GND	VSS	GND
14	VBB	GND	GND	Q6	Q7	VDD	GND	GND	GND	GND	e	D3	DQ3	DQ3	D9
15	VSS	O1	O1	Q7	Q8	\overline{MR}	F3	O4	F3	Z/DET	f	D4	DQ4	DQ4	D8
16	VDD	O2	O2	VDD	VDD	IR	F2	O3	F2	$\overline{O5}$	g	D5	DQ5	DQ5	D7
17	O7	NC	O3	SL	D8	S1	F1	O2	F1	$\overline{O4}$	h	D6	DQ6	DQ6	D6
18	O6	O3	O4	PL	PL	D8	F0	O1	F0	$\overline{O3}$	i	D7	DQ7	DQ7	D5
19	O5	O4	O5	FLAG	FLAG	D7	\overline{CE}	\overline{CS}	\overline{CE}	$\overline{O6}$	j	\overline{CE}	\overline{S}	\overline{CE}	D4
20	O4	O5	O6	D7	D7	D6	I15	A15	I15/IF	A10	NC	A10	A10	A10	D3
21	O3	NC	O7	D6	D6	D5	I14	A14	I14/IE	A3	k	\overline{OE}	\overline{R}	\overline{OE}	D2
22	O2	O6	O8	D5	D5	D4	I13	A13	I13/ID	A11	l	A11	A11	N/C	D1
23	O1	O7	O9	D4	D4	D3	I12	A12	I12/IC	A4	m	A9	A9	A9	D0
24	O0	NC	NC	VSS	VSS	D2	I11	A11	I11/IB	A12	n	A8	A8	A8	LA3
25	\overline{RE}	CS	CS	\overline{TR}	IR	D1	I10	A10	I10/IA	A5	CS1	CS2/ $\overline{CS2}$	E	CS	LA2
26	CS4	\emptyset	\emptyset	D3	D3	D0	I9	A9	I9	A13	CS2	CS1/CS1	\overline{W}	\overline{WE}	LA1
27	CS3	VCC	VCC	D2	D2	\overline{TE}	I8	A8	I8	A6	GND	VCC	VCC	VCC	VCC
28	VCC	VDD	VDD	D1	D1	VSS	VCC	VCC	VCC	VCC	X0	A12	A12	N/C	LStrobe

24. PIN CONNECTIONS

IN PIN NUMBER SEQUENCE

PN40

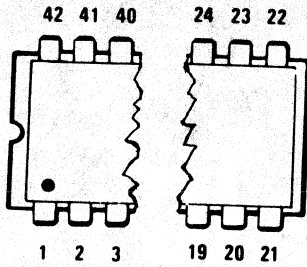


Pin	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
1	SUBST	A7	VCC	B3	CKIA	CKIA	GND	VSS	PC3	PC3	$\overline{CE1}$	\overline{CE}	\overline{CE}	$\overline{T/C}$	$\overline{T/C}$
2	NC	A6	FCB	VLL	CKIB	CKIB	D1	G5	PC4	PC4	CE2	CE	CE	D1	D1
3	X0	A5	FCC	CLk	CKIC	CKIC	D2	G4	Tin	Tin	CLk	CLK	CLK	NC	NC
4	X1	A4	SHFTin	X9	CKID	CKID	D3	G3	RESET	RESET	RESET	Reset	Reset	NC	Q1
5	X2	A3	CONTin	X8	CKIE	CKIE	D4	G2	PC5	PC5	NC	NC	VDD	Q1	Q2
6	X3	ST	PTYin	X7	CKIF	CKIF	D5	G1	TOUT	TOUT	READY	Ready	Ready	Q2	Q3
7	Y0	1	PTYout	X6	CKIG	CKIG	D6		10/M	10/M	$\overline{10/M}$	$\overline{10/M}$	$\overline{10/M}$	Q3	Q4
8	Y1	2	DOB8	X5	CKIH	CKIH	D7		\overline{CE}	CE	\overline{TOR}	\overline{IOR}	\overline{IOR}	Q4	Q5
9	Y2	3	DOB7	X4	CKII	CKII	D8		RD	RD	\overline{RD}	\overline{RD}	\overline{RD}	Q5	Q6
10	Y3	4	DOB6	X3	CKIJ	CKIJ	D9	K	WR	WR	$\overline{10W}$	$\overline{10W}$	$\overline{10W}$	Q6	Q7
11	Y4	5	DOB5	X2	CKIK	CKIK	D10	D	ALE	ALE	ALE	ALE	ALE	Q7	Q8
12	Y5	6	DOB4	X1	CKIL	CKIL	KBINH4	B	AD0	AD0	AD0	AD0	AD0	Q8	Q9
13	Y6	7	DOB3	DSTOUT	CKIM	CKIM	LO/RO	A	AD1	AD1	AD1	AD1	AD1	Q9	Q10
14	Y7	8	DOB2	DSTCON	CNKIA	CKIA	YA	VDD	AD2	AD2	AD2	AD2	AD2	Q10	Q11
15	X4	NC	DOB1	OE	CNKIB	CKIB	YB	RC	AD3	AD3	AD3	AD3	AD3	Q11	Q12
16	X5	NC	STRBO	REPT	CNKIC	CKIC	YC	DUMP	AD4	AD4	AD4	AD4	AD4	Q12	Q13
17	X6	NC	VGI	KBM	CNKOA	CKIA	X0	CHG	AD5	AD5	AD5	AD5	AD5	Q13	Q14
18	X7	NC	VGG	VGG	CNKOB	CKIB	X1	C	AD6	AD6	AD6	AD6	AD6	Q14	Q15
19	NC	\overline{EN}	STCONI	CONT	CNKOC	CKIC	X2	P	AD7	AD7	AD7	AD7	AD7	Q15	Q16
20	NC	GND	D/SCin	S/LI/O	DBOSR/C	DBOSR/C	X3	E	VSS	VSS	VSS	VSS	VSS	VSS	VSS
21	NC	A0	Y10	SHIFT	S2	S1	X4	H10	PA0	PA0	A8	A8	A8	NC	Q17
22	NC	A1	Y9	Y10	S1	S2	X8	H9	PA1	PA1	A9	A9	A9	Q16	Q18
23	X8	A2	Y8	Y1	B0	B0	X9	H8	PA2	PA2	A10	A10	A10	Q17	Q19
24	X9	$\overline{CE1}$	Y7	Y2	B1	B1	X10	H7	PA3	PA3	PA0	PA0	PA0	Q18	Q20
25	X10	NC	Y6	Y3	B2	B2	X11	H6	PA4	PA4	PA1	PA1	PA1	Q19	Q21
26	X11	NC	Y5	Y4	B3	B3	X12	H5	PA5	PA5	PA2	PA2	PA2	Q20	Q22
27	Y8	$\overline{CE2}$	Y4	Y5	B4	B4	X13	H4	PA6	PA6	PA3	PA3	PA3	Q21	Q23
28	Y9	9	Y3	Y6	B5	B5	X15	H3	PA7	PA7	PA4	PA4	PA4	Q22	Q24
29	Y10	10	Y2	Y7	B6	B6	X14	H2	PB0	PB0	PA5	PA5	PA5	Q23	Q25
30	Y11	11	Y1	Y8	B7	B7	X5	H1	PB1	PB1	PA6	PA6	PA6	Q24	Q26
31	Y12	12	Y0	Y9	B8	B8	X7	F8	PB2	PB2	PA7	PA7	PA7	Q25	Q27
32	Y13	13	X7	VSS	B9	DOPOL	X6	F7	PB3	PB3	PB0	PB0	PB0	Q26	Q28
33	Y14	14	X6	B5	DLYSTBO	DLYSIBB	ALI	F6	PB4	PB4	PB1	PB1	PB1	Q27	Q29
34	Y15	15	X5	B6	SOSR/C	SOSR/C	SLI	F5	PB5	PB5	PB2	PB2	PB2	Q28	Q30
35	X12	16	X4	B7	IOSR/C	IOSR/C	\overline{KPD}	F4	PB6	PB6	PB3	PB3	PB3	Q29	Q31
36	X13	NC	X3	B8	OEin	OEin	CLk	F3	PB7	PB7	PB4	PB4	PB4	Q30	Q32
37	X14	NC	X2	B1	DLYR/C	DLYR/C	\overline{POR}	F2	PC0	PC0	PB5	PB5	PB5	DO	DO
38	X15	A9	X1	B2	VSS	VSS	MATIN	F1	PC1	PC1	PB6	PB6	PB6	RST®	RST
39	NC	A8	X0	B9	VDD	VDD	AKD	G8	PC2	PC2	PB7	PB7	PB7	CLK	CLK
40	NC	VCC	FCA	B4	VGG	VGG	VCC	G7	VCC	VCC	VCC	VCC	VCC	VDD	VDD

24. PIN CONNECTIONS

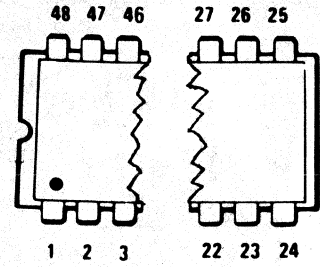
IN PIN NUMBER SEQUENCE

PN42



Pin	a			
1	CE			
2	C			
3	B			
4	A			
5	+5V			
6	Y7			
7	Y6			
8	Y5			
9	Y4			
10	Y3			
11	Y2			
12	Y1			
13	Y0			
14	Y8			
15	Y9			
16	Y10			
17	Y11			
18	Y12			
19	Y13			
20	Y14			
21	Y15			
22	Y23			
23	Y22			
24	Y21			
25	Y20			
26	Y19			
27	Y18			
28	Y17			
29	Y16			
30	Y24			
31	Y25			
32	Y26			
33	Y27			
34	Y28			
35	Y29			
36	Y30			
37	Y31			
38	GND			
39	VINH			
40	F			
41	E			
42	D			

PN48



Pin	a	b	c	d	e
1	VCC	VCC			
2	CS1	CS1			
3	X0	X0			
4	X1	X1			
5	X2	X2			
6	X3	X3			
7	X4	X4			
8	X5	X5			
9	O21	N			
10	O22	M			
11	O23	L			
12	O24	K			
13	O25	J			
14	O26	I			
15	O27	H			
16	O28	G			
17	O29	F			
18	O30	E			
19	NC	NC			
20	O31	D			
21	O32	C			
22	O33	B			
23	O34	A			
24	O35	NC			
25	O20	NC			
26	O19	NC			
27	O18	NC			
28	O17	NC			
29	O16	a1			
30	O15	a2			
31	NC	NC			
32	O14	b			
33	O13	c			
34	O12	d1			
35	O11	d2			
36	O10	e			
37	O9	f			
38	O8	g			
39	O7	h			
40	O6	i			
41	O5	j			
42	O4	k			
43	NC	NC			
44	O3	l			
45	O2	m			
46	O1	n			
47	CS2	CS2			
48	GND	GND			

MEMORY IC

Manufacturers' Sales Offices

These manufacturers have listed their sales offices in this section for your convenience. Please contact the sales office nearest you for any additional information you may need.

(MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS)

AMD – ADVANCED MICRO DEVICES, INC.

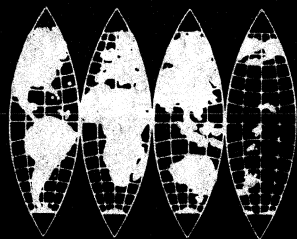


	Zip Code	Telephone No.	TWX/Telex
901 Thompson Place, Sunnyvale, California	94086	408-732-2400	910-339-9280 34-6306



FERB – FERRANTI ELECTRONICS LIMITED

	Zip Code	Telephone No.	TWX/Telex
Fields New Road, Chadderton, Oldham, Lancashire, England.....	OL9 8NP	061-624-0515/ 6661	668038
GERMANY			
Munich 22	Ferranti GmbH	D8000	089 293 871
	Widenmayerstrasse		523980
Hannover 21	Ferranti GmbH	3000	0511/524166
	Brabeckstr 5		523980
UNITED STATES			
CALIFORNIA			
Sunnyvale	Interdesign, Inc.	94086	408-734-8666
	1255 Reamwood Avenue		910-339-9374
NEW YORK			
Commack.....	Ferranti Electric Inc.	11725	516-543-0200
	87 Modular Avenue		510-226-1490



SECTION 25

Manufacturers' Sales Offices

FMI — FUJITSU MICROELECTRONICS, INC.

**FUJITSU
MICROELECTRONICS**

2945 Oakmead Village Court, Santa Clara, California.....	Zip Code 95051	Telephone No. 408-727-1700	TWX/Telex 910-338-0047 181172
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FAIRCHILD

FSC — FAIRCHILD CAMERA & INSTRUMENT CORPORATION

SEMICONDUCTORS PRODUCT GROUP 464 Ellis Street, Mountain View, California	Zip Code 94040	Telephone No. 415-962-5011	TWX/Telex 910-379-6435 Cable FAIRSEMCO
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ITL — INTEL CORPORATION



3065 Bowers Avenue, Santa Clara, California	Zip Code 95051	Telephone No. 408-987-8080	TWX/Telex 910-338-0026 34-6372
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U. S. SALES OFFICES

CALIFORNIA	Santa Ana	Intel Corporation	92701	714-835-9642	910-595-1114
		1651 East 4th Street Suite 150			
ILLINOIS	Oakbrook	Intel Corporation	60521	312-325-9510	910-651-5881
		1000 Jorie Boulevard			
MASSACHUSETTS	Chelmsford	Intel Corporation	01824	617-667-8126	710-343-6333
		27 Industrial Ave.			
TEXAS	Dallas	Intel Corporation	75234	214-241-9521	910-860-5487
		2925 LBJ Freeway Suite 175			

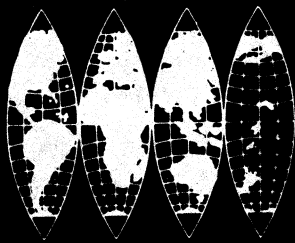
EUROPEAN MARKETING OFFICE

BELGIUM	Brussels	Intel International **	B-1160	(02)66030 10	24814
		Rue du Moulin a Papier 51-Boite 1			

ORIENT MARKETING OFFICE

JAPAN	Tokyo	Intel Japan Corporation **	154	(03)426-9261	781-28426
		Flower Hill Shinmachi E. Bldg. 1-23-9 Shinmachi, Setagaya-ku			

** Field Application Locations



SECTION 25

Manufacturers' Sales Offices



ITT – ITT SEMICONDUCTORS

		Zip Code	Telephone No.	TWX/Telex
WEST GERMANY	Freiburg	INTERMETALL..... Post Office Box 840	D-7800 761-5171	(07) 72716
JAPAN	Tokyo	ITT Semiconductors	160-91 3478881-5	22858
		Post Office Box 21 Shinjuku-ku		
UNITED KINGDOM ...	Sidcup (Kent)	ITT Semiconductors	DA14 5HT 1-300 3333	21836
		H Maidstone Rd.		
UNITED STATES	Lawrence	ITT Semiconductors	01841 617-688-1881	710-342-1357
	(Massachusetts)	500 Broadway		
	Dallas	ITT Semiconductors	75234 214-243-7851	
	(Texas)	2995 LBJ Freeway Suite 130		



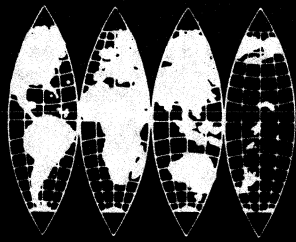
MMI – MONOLITHIC MEMORIES INC.

		Zip Code	Telephone No.	TWX/Telex
1165 East Arques Avenue, Sunnyvale, California		94086	408-739-3535	910-339-9229



NSC – NATIONAL SEMICONDUCTOR CORP.

		Zip Code	Telephone No.	TWX/Telex
2900 Semiconductor Drive, Santa Clara, California		95051	408-737-5000	910-339-9240
CALIFORNIA	Irvine	National Semiconductor	92714 714-957-1626	910-595-2593
		Western Area Office 17870 Sky Park Circle Suite 108		
CONNECTICUT	Wilton	National Semiconductor	06897 203-762-0378	710-479-3512
		Northeast Area Sales Office Piersall Bldg. Suite 217 Wilton Center		
FLORIDA	Fort Lauderdale	National Semiconductor	33309 305-772-6970	510-955-9708
		Regional Office 1001 N.W. 62nd St. Suite 110		



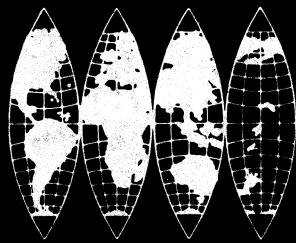
NSC – NATIONAL SEMICONDUCTOR CORP. (Con't)

			Zip Code	Telephone No.	TWX/Telex
	2900 Semiconductor Drive, Santa Clara, California		95051	408-737-5000	910-339-9240
ILLINOIS	Schaumburg	National Semiconductor	60195	312-397-8777	910-689-3346
		West-Central Regional Office 2030 Algonquin Rd.			
INTERNATIONAL					
FRANCE	Fontenay- aux-Roses	National Semiconductor	92260	016608140	250956
		28, Rue de la Redoute Expansion 10000			
GERMANY	Furstenfeldbruck	National Semiconductor BMGH	8080	081411031	52-7649
		Industriestrasse 107			
	Munich, 21	National Semiconductor BMGH.....	8000	089576091	52-2772
		Elsenheimer StraBe 61/11			
ITALY	Milan	National Semiconductor SRL	20121	630410/630414/ 630862/661542	332835
		Via Solferino, 19			
UNITED KINGDOM	Bedford	National Semiconductor Ltd.	MK40 ITR	(0234)47147	826209
		301 Harpur Centre Horne Lane	UK		

PHIN – PHILIPS GLOEILAMPENFABRIEKEN



			Zip Code	Telephone No.	TWX/Telex
ELCOMA MARKETING COMMUNICATIONS	Building BA, Eindhoven, Netherlands			(040) 79 11 11	51121
ARGENTINA	Buenos Aires	Fapesa I.v.C		652-7438/7478	21243
	(Tablada)	Av. Crovara 2550			
AUSTRALIA	Lane Cove	Philips Industries Holdings, Ltd.	2066	427 0888	21503
		Elcoma Division 67 Mars Road	N.S.W.		
AUSTRIA	Wien	Österreichische Philips	A-1101	62 91 11	131802
		Bauelemente Industrie G.m.b.H. Treisterstrasse 64			
BELGIUM	Bruxelles	M.B.L.E.	B-1070	523 00 00	21420
		80 Rue des Deux Gares			
BRAZIL	Sao Paulo, SP	Ibrape	1735	(011)211-2600	112 4354
		Av. Brigadeiro Faria Lima			



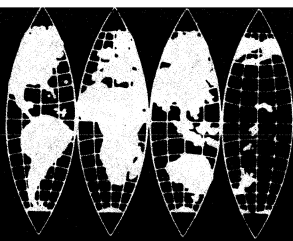
SECTION 25

Manufacturers' Sales Offices



PHIN – PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)

			Zip Code	Telephone No.	TWX/Telex
ELCOMA MARKETING COMMUNICATIONS					
	Building BA, Eindhoven, Netherlands			(040) 723142	51121
CANADA	Scarborough (Ontario)	Philips Electronics Ltd. Electron Devices Division 601 Milner Avenue	M1B 1M8	292-5161	65-25100 65-25103
DENMARK	København NV	Miniwatt A/S Emdrupvej 115A	DK-2400	(01) 69 16 22	15310
FINLAND	Helsinki 10	Oy Philips Ab Elcoma Division Kaivokatu 8	SF-00100	1 72 71	124011
FRANCE	Paris 11	R.T.C. (RTCF)* La Radiotechnique Compelec 130 Avenue Ledru Rollin	F-75540	355-44-99	680495
GERMANY	Hamburg 1	VALVO (VALG)* UB Bauelemente der Philips GmbH Valvo Haus Burchardstrasse 19	D-2	(040)3296-1	2161891
HONG KONG	Kwai Chung, N.T.	Philips Hong Kong Ltd. Elcoma Div. 15/F Philips Industrial Bldg. 24-28 Kung Yip Street	289	12-24 5121	73660
ITALY	Milano	Philips S.p.A. Sezione Elcoma Piazza IV Novembre 3	I-20124	2-6994	3 30262
JAPAN	Tokyo	Nihon Philips Corporation Shuwa Shinagawa Bldg. 26-33 Takanawa, 3-chome Minato-ku	108	(448) 5611	7226388
KOREA	Seoul	Philips Electronics (Korea) Ltd. Philips House-Elcoma Division 260-199 Itaewon-dong Yongsan-ku		794-4202	27291
MEXICO	Mexico 6, D.F.	Electronica S.A. de C.V. Varsovia No. 36		533-11-80	221771227
NETHERLANDS	Eindhoven	Philips Nederland B.V. Afd. Elonco Boschdijk 525	5600 PB	(040) 79 33 33	51238



SECTION 25

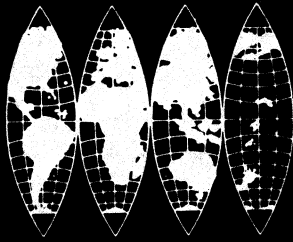
Manufacturers' Sales Offices

PHIN – PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)



			Zip Code	Telephone No.	TWX/Telex
ELCOMA MARKETING COMMUNICATIONS	Building BA, Eindhoven, Netherlands			(040) 723142	51121
NEW ZEALAND	Auckland (St. Lukes)	Philips Electrical Industries Ltd. Elcoma Division 2 Wagener Place		867119	2312
NORWAY	Oslo 3	Norsk A/S Philips Electronica Dept. S�rkedalsveien 6		46 3890	11141
SOUTH AFRICA	Johannesburg (New Doornfontein)	EDAC (Pty.) Ltd. 3rd Fl. Rainer House Upper Railway Rd. & Ove St.	2001	614 - 2362/9	95437786
SPAIN	Barcelona 7	Copresa S.A. Balmes 22		301 63 12	54666
SWEDEN	Stockholm 27	A. B. Elcoma Lidingovagen 50	S-11584	08/679780	10776
SWITZERLAND	Zurich	Philips A. G. Elcoma Dept. Allmendstrasse 140-142	CH-8027	01/43 22 11	52392
TAIWAN	Taipei	Philips Taiwan Ltd. San Min Bldg., 3rd Floor 57-1 Chung Shan N. Road Section 2		55 13101-5	21570
UNITED KINGDOM	London	Mullard Ltd. Mullard House Torrington Place	WC1E 7HD	01-580-6633	264341
UNITED STATES	California Sunnyvale	Signetics Corporation (SIC)*	94086	(408) 739-7700	910-339-9203

* Manufacturer Code inside () can be found in Section 27, Manufacturers Code Names & Addresses



SECTION 25

Manufacturers' Sales Offices



RTCF – R.T.C. LA RADIOTECHNIQUE - COMPELEC

130, Avenue Ledru-Rollin, Paris Cedex 11, France	Zip Code 75.540	Telephone No. 355-44-99	TWX/Telex PHILAMP PARIS 280 746
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SIC – SIGNETICS CORPORATION



811 East Arques Avenue, Post Office Box 409, Sunnyvale, California	Zip Code 94086	Telephone No. 408-739-7700	TWX/Telex 910-339-9220
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SSS – SOLID STATE SCIENTIFIC INC.



Montgomeryville, Pennsylvania	Zip Code 18936	Telephone No. 215-855-8400	TWX 510-661-7267
REGIONAL SALES OFFICES			
CALIFORNIA Sherman Oaks Solid State Scientific, Inc.	91403	213-995-6666	910-495-1746
		15010 Ventura Blvd. Suite 202	
ILLINOIS Deerfield Solid State Scientific, Inc.	60015	312-948-8840	910-692-4022
		108 Wilmot Road Suite 104	
PENNSYLVANIA Southampton Solid State Scientific, Inc.	18966	215-364-2025	510-667-1722
		1111 Street Road Suite 105	











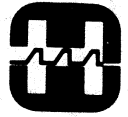

















SYK – SYNERTEK, INC.



3001 Stender Way, Santa Clara, California	Zip Code 95051	Telephone No. 408-988-5600
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26. MANUFACTURERS' LOGOS

IN MFR.
CODE ORDER

 <p>AMI – American Microsystems, Inc.</p>	 <p>AMD – Advanced Micro Devices, Inc.</p>	 <p>CLI – Control Logic Inc.</p>	 <p>EAI – Electronic Arrays, Inc.</p>	 <p>EMM – EMM/SEMI Inc.</p>
 <p>FERB – Ferranti, Ltd.</p>	 <p>FMI – Fujitsu Microelectronics Inc.</p>	 <p>FSC – Fairchild Camera & Instrument Corp.</p>	 <p>GIC – General Instrument Corp.</p>	 <p>HAC – Hughes Aircraft Co.</p>
 <p>HAS – Harris Semiconductor</p>	 <p>HITJ – Hitachi, Ltd.</p>	 <p>ICC – Information Control Corp.</p>	 <p>INL – Intersil, Inc.</p>	 <p>ITL – Intel Corp.</p>
 <p>ITT – ITT Semiconductor Interneta</p>	 <p>MATJ – Matsushita Electronics Corp.</p>	 <p>MITC – Mitel Semiconductor</p>	 <p>MITJ – Mitsubishi Electric Corp.</p>	 <p>MMI – Monolithic Memories, Inc.</p>
 <p>MOS – Mostek Corp.</p>	 <p>MOTA – Motorola Semiconductor Products, Inc.</p>	 <p>MTY – MOS Technology Inc.</p>	 <p>MULB – Mullard Ltd.</p>	 <p>NECE – NEC Electron Inc. NECJ – Nippon Electric Co., Ltd.</p>
 <p>NIT – Nitron Inc.</p>	 <p>NSC – National Semicon. Corp.</p>	 <p>OKIJ – OKI Electric Industry Co., Ltd.</p>	 <p>PHIN – N. V. Philips Gloeilampenfabrieken</p>	 <p>RCA – RCA Corp., Solid State Div.</p>

26. MANUFACTURERS' LOGOS

IN MFR.
CODE ORDER

 <p>Rockwell International</p> <p>RKW – Rockwell International</p>	 <p>RTC</p> <p>RTCF – R.T.C. La Radiotechnique-Complec</p>	 <p>RAYTHEON</p> <p>RTN – Raytheon Company</p>	 <p>SGS-ATES</p> <p>SGAI – SGS-ATES Componenti Electronici S.p.A.</p>	 <p>signetics</p> <p>SIC – Signetics Corp.</p>
 <p>SIEMENS</p> <p>(Product Identifier)</p> <p>SIEG – Siemens Aktiengesellschaft, Semiconductor Div.</p>	 <p>SMC – Standard Microsystems Corp.</p>	 <p>SOD – Solitron Devices, Inc.</p>	 <p>SSS – Solid State Scientific, Inc.</p>	 <p>SST – Solid State, Inc.</p>
 <p>Supertex Inc.</p> <p>STX – Supertex Inc.</p>	 <p>Synertek INCORPORATED</p> <p>SYK – Synertek Inc.</p>	 <p>THOMSON-CSF DIVISION SEMICONDUCTEURS</p> <p>THCF – Thomson-CSF</p>	 <p>THOMSON-CSF THOMSON-CSF COMPONENTS CORPORATION SEMICONDUCTOR DIVISION</p> <p>THCS – Thomson CSF, Semicon Div.</p>	 <p>TII – Texas Instruments, Inc.</p>
 <p>TOSJ – Toshiba Corp.</p>	 <p>TRW</p> <p>TRW – TRW Semiconductors Inc.</p>	 <p>TSC – Teledyne Semiconductor</p>	 <p>TUNGSRAM</p> <p>TUNH – Tungram</p>	 <p>VALGO</p> <p>VALG – Valvo GmbH</p>
 <p>WESTERN DIGITAL CORPORATION</p> <p>WDC – Western Digital Corp.</p>	 <p>WYLE COMPUTER PRODUCTS A DIVISION OF WYLE LABORATORIES</p> <p>WLD – Wyle Laboratories Computer Products</p>	 <p>Zilog</p> <p>ZIL – Zilog Microcomputers</p>		

27. MANUFACTURERS' CODES NAMES & ADDRESSES

QPL
MFR.
DESIG.

FSCM/
NATO
No.

D.A.T.A.
MFRS.
CODE

MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS

	31471-	AMI	* - American Micro-Systems, Inc., 3800 Homestead Rd., Santa Clara, CA 95051
CDWN-	34335-	AMD	* - Advanced Micro Devices, Inc., 901 Thompson Pl., Sunnyvale, CA 94086
		CLI	* - Control Logic, Inc., Nine Tech Circle, Natick, MA 01760
	33297-	EAI	* - Electronic Arrays Inc., 550 E. Middle field Rd., Mountain View, CA 94043
	54800-	ECV	- Energy Conversion Devices, Inc., 1675 W. Maple Rd., Troy, MI 48084
		EFCF	★ E.F.C.I.S., B.P. 217, Avenue Des Martyrs, 38019 Grenoble, Cedex, France
		EMM	* - EMM/SEMI, Inc., 2000 W. 14th St., Tempe, AZ 85281
	S0167-	FCAJ#	- (See FMI)
	K1196-	FERB	* - Ferranti Ltd., Electronics Dept., Fields New Rd., Chadderton, Oldham OL9 8NP England
		FMI#	* - Fujitsu Microelectronics Inc., 2945 Oakmead Dr., Santa Clara, CA 95051
CFJ-	07263-	FSC	* - Fairchild Camera & Instrument Corp., Semicon. Prod. Group, 464 Ellis St., MS 20-1050, Mountain View, CA 94040
CAKK-	05828-	GIC	* - General Instrument Corp., 600 W. John St., Hicksville, NY 11802
		HAC	* - Hughes Aircraft Co., 500 Superior Ave., Newport Beach, CA 92663
CDWO-	34371-	HAS	* - Harris Semiconductor, P.O. Box 883, Melbourne, FL 32901
	S4361-	HITJ	* - Hitachi Ltd., Ohte-machi, 1450 Josuihon-Cho, Kolare-Shi, Tokyo, 187, Japan
		ICC	* - Information Control Corp., 9610 Bellanca Ave., Los Angeles, CA 90045
CDPR-	32293-	INL	* - Intersil, Inc., 10710 No. Tantau Ave., Cupertino, CA 95014
CECC-	34649-	ITL	* - Intel Corporation, 3065 Bowers Ave., Santa Clara, CA 95051
	D8849-	ITTG	* - ITT Semiconductors Intermetall, P.O. Box 840, D-7800 Freiburg 1 Br., West Germany
	01619-	MATJ	* - Matsushita Electronics Corp., 1 Kotari-Yakemachi, Nagaokakyo, Kyoto 617, Japan
		MITC	* - Mitel Semiconductor, P.O. Box 13089, Karata, Ottawa, Ontario, Canada K2K 1X3
	90144-	MITJ	* - Mitsubishi Electric Corp., Kita-Itami Works, 4-1 Mizuhara, Itami-Shi, Hyogo-Ken, 664, Japan
CECD-	50364-	MMI	* - Monolithic Memories, Inc., 1165 E. Arques Ave., Sunnyvale, CA 94086
	20747-	MON	- Aydin-Monitor, P.O. Box 328, Newton, PA 18940
CEEJ-	50088-	MOS	* - Mostek Corp., 1215 W. Crosby Dr., Carrollton, TX 75000
CGG-	04713-	MOTA	* - Motorola Semiconductor Products Inc., 5005 E. McDowell Rd., M370, Phoenix, AZ 85008
	51284-	MTY	* - MOS Technology, Inc., Valley Forge Corp., Ctr., 950 Rittenhouse Rd., Norristown, PA 19401
	K8996-	MULB	* - Mullard Ltd., Mullard House, Torrington Pl., London WC1E 7HD, England
		NECE	★ NEC Electron Inc., 3120 Central Expressway, Santa Clara, CA 95051
	S0543-	NECJ	* - Nippon Electric Co., Ltd., 1753 Shimonumabe, Nakahara-ky, Kawasaki, Japan
	54335-	NIT	* - Nitron, 10420 Bubb Rd., Cupertino, CA 95014

* See Section 25 for Manufacturers' Logos

CODE CHANGE THIS EDITION

Old: FCAJ - Fujitsu America Inc.

New: FMI - Fujitsu Microelectronics Inc.

Manufacturers shown in bold print have sales offices,
which are included in Section 24 of this D.A.T.A. BOOK

27. MANUFACTURERS' CODES, NAMES & ADDRESSES

MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS

QPL
MFR.
DESIG.

FSCM/
NATO
No.

D.A.T.A.
MFRS.
CODE

CCXP-	27014-	NSC	* - National Semiconductor Corp., 2900 Semiconductor Dr., Santa Clara, CA 95011
	54071-	OKIJ	* - OKI Electric Industry Co., Ltd., Electronic Prod. Sec. Intl. Div., 10-3 Shibaura 4-chome, Minato-ku, Tokyo 108, Japan
	H0002-	PHIN	* - N. V. Philips Gloeilampenfabrieken, Product Div., Elcoma, Bldg. BA Eindhoven, Netherlands
CRC-	18714-	RCA	* - RCA Corporation, Solid State Div., Route 202, Somerville, NJ 08876
		RKW	* - Rockwell International Corp., P.O. Box 3669, Anaheim, CA 92803
		RTC	- Riehl Time Corp., 53 So. Jefferson Rd., Whippany, NJ 07981
	F0862-	RTCF	* - R.T.C. LaRadiotechnique-Compelec, 130, Ave. Ledru-Rollin, 75540 Paris Cedex 11, France
CRP-	07933-	RTN	* - Raytheon Company, 350 Ellis St., Mountain View, CA 94042
	A3500-	SGAI	* - SGS-ATES Componenti Elettronici S.p.A., Via C. Olivetti 2, 20041 Agrate Brianza, Milan Italy
CDBK-	18324-	SIC	* - Signetec Corp., 811 E. Arques Ave., Sunnyvale, CA 94086
	D1180-	SIEG	* - Siemens Aktiengesellschaft, 8 Munchen 46, Frankfurter Ring 152, West Germany
		SMC	* - Standard Microsystems Corp., 35 Marcus Blvd., Hauppauge, NY 11787
CDCD-	22229-	SOD	* - Solitron Devices, Inc., 8808 Balboa Ave., San Diego, CA 92123
CECE-	31019-	SSS	* - Solid State Scientific, Inc., Montgomeryville, PA 18936
		SST	* - Solid State, Inc., 46 Farrand St., Bloomfield, NJ 07003
		STX	* - Supertex Inc., 1225 Bordeaux Dr., Sunnyvale, CA 94086
	55576-	SYK	* - Synertek Inc., 3001 Stender Way, Box 552, Santa Clara, CA 95051
		TAI	* - Toko America, Inc., 5520 W. Touhey Ave., Skokie, IL 60077
	F5602-	THCF	* - Thomson CSF, Div. Semiconducteurs SESCOSEM, 50 rue Jean Pierre Timbaud, BP5 92403 Courbevoie, France
		THCS	* - Thomson CSF, Semiconductor Div., 6660 Variel Ave., P.O. Box 1454, Canoga Park, CA 91304
CGO-	01295-	TII	* - Texas Instruments, Inc., Inquiry Answering Service, M/S 308, P.O. Box 225012, Dallas TX 75265
		TOSJ	* - Toshiba Corp., 1 Komukai Toshibacho Saiwai-ku, Kawasaki-City, Kanagawa, Japan
		TRW	* - TRW-LSI Products, P.O. Box 1125, Redondo Beach, CA 92074
	15818-	TSC	* - Teledyne Semiconductor, 1300 Terra Bella Ave., Mountain View, CA 94043
		TUNH	* - Tungram, H-1340, Budapest, Hungary
	D2540-	VALG	* - Valvo GmbH, P.O. Box 993, D2000, Hamburg, 1, West Germany
	52840-	WDC	* - Western Digital Corp., 3128 Red Hill Ave., Box 2180, Newport Beach, CA 92663
	07764-	WLD	* - Wyle Laboratories/Computer Products, 3200 Magruder Blvd., Hampton, VA 23666
		ZIL	* ★ Zilog Microcomputers, 10340 Bubb Rd., Cupertino, CA 95014

★ New Manufacturers

* See Section 25 for Manufacturers' Logos

Manufacturers shown in bold print have sales offices, which are included in Section 24 of this D.A.T.A. BOOK

INTERPRETER SYMBOLS & CODES

TYPE No. CROSS INDEX & TECHNICAL SECTIONS

- △ Indicators of separate manufacturers producing same type number (non-JEDEC) whose characteristics are not the same.
- # This manufacturer-identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the device of one manufacturer with the devices of the others.

Example:	Type No.	Manufacturer	Description
(simulated information)	DD31	CCD	Shift Register
	DD31	CLC	RAM
	DD31	ZEL	ROM

- # 1, #2... The modifier is designated by D.A.T.A. to distinguish between type no. designations which give only one type no. but have more than one electrical function or package.
- %... (Sect. 4 & 6) Device requires companion device to complete code; see logic drawing.
- PR... Suffix indicates device is a preliminary type.
- RT... Suffix indicates device is a replacement type.

LINE NO.
▼ - New Type
◆ - Revised Specification
- Manufactured Outside U.S.A.

SYMBOLS & CODES COMMON TO ALL TECHNICAL SECTIONS

NOTE: UNLESS OTHERWISE INDICATED, ALL CHARACTERISTICS APPLY OVER THE ENTIRE OPERATING TEMPERATURE RANGE.

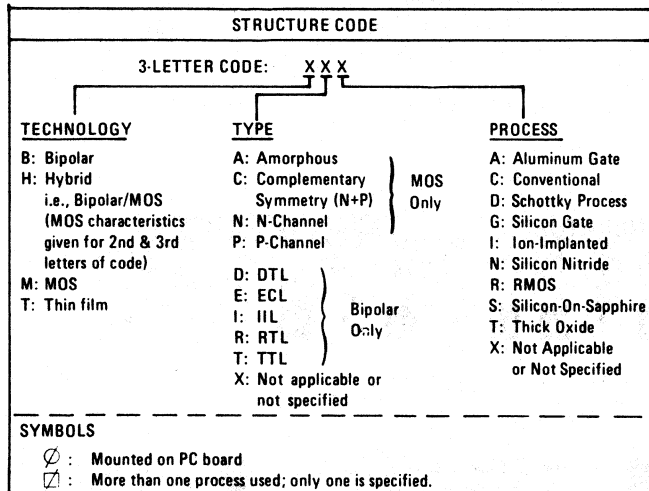
MAX. OPERATING POWER DISSIPATION
† - Typical
* - Minimum
% - Per bit
◆ - Quiescent power dissipation
◇ - Absolute maximum
⊗ - At 25°C
△ - Dissipation per package

INPUT LOGIC LEVEL: MAX. '0'
† - Typical
* - Minimum
% - Output (not Input) value given. (This also applies for value given for '1' level.)
◆ - Bipolar load only; can be adjusted for the MOS load. (Applies for '1' level value, also)
⊗ - At 25°C

MINIMUM OUTPUT SINK CURRENT
† - Typical
- Maximum
⊕ - Minimum output source current
⊖ - Minimum output high current
△ - Maximum output leakage current
⊗ - Minimum driving (fanout) current
⊕ - Absolute max. rated output current
⊗ - At 25°C

OUTLINE DRAWINGS
CY - TO 5-type (non-JEDEC)
CH - Chip Package
FL - Flat package (non-JEDEC)
ML - Molded or encapsulated package not included in other categories.
MO - Standard JEDEC outline
PL - Printed circuit board
TO - Standard JEDEC outline
⊗ - Package style only shown; no dimensions.

LOGIC/BLOCK DRAWINGS	
A - RAMs	E - Code Converters
B - ROMs	F - Shift Registers
C - Character Generators	Z - Special Devices
§ - Optional Terminal Connections available; consult manufacturer	



OPERATING TEMPERATURE CODE							
0- 0 up to 10°C 1- 10 up to 20°C 2- 20 up to 30°C 3- 30 up to 40°C 4- 40 up to 50°C 5- 50 up to 60°C 6- 60 up to 70°C 7- 70 up to 80°C 8- 80 up to 90°C 9- 90 up to 100°C A- 100 up to 110°C B- 110 up to 120°C C- 120 up to 130°C D- 130 up to 140°C E- 140 up to 150°C F- 150 up to 160°C G- 160 up to 170°C H- 170 up to 180°C J- 180 up to 190°C K- 190 up to 200°C	<p>▼ - USED IN NEGATIVE COLUMN TO INDICATE VALUE IS POSITIVE</p> <p>EXAMPLES OF OPERATING TEMP. RANGE CODE:</p> <p style="text-align: center;">5 C</p> <table style="width: 100%;"> <tr> <td>Min. value Lies between -50°C and -60°C</td> <td>Max. value Lies between +120°C and +130°C</td> </tr> </table> <p style="text-align: center;">OR</p> <table style="width: 100%;"> <tr> <td>1</td> <td>8</td> </tr> <tr> <td>Min. value Lies between +10°C and +20°C</td> <td>Max. value Lies between +80°C and +90°C</td> </tr> </table>	Min. value Lies between -50°C and -60°C	Max. value Lies between +120°C and +130°C	1	8	Min. value Lies between +10°C and +20°C	Max. value Lies between +80°C and +90°C
Min. value Lies between -50°C and -60°C	Max. value Lies between +120°C and +130°C						
1	8						
Min. value Lies between +10°C and +20°C	Max. value Lies between +80°C and +90°C						

2. READ-WRITE MEMORIES (RAMS)

LINE No.	TYPE No.	ORGANIZATION	2 ¹ BITS PER WORD	3 ⁴ M ¹ STRUCTURE	5 ¹ MAX. ACCESS TIME (ns)	6 ¹ MAX. WRITE CYCLE TIME (ns)	7 ¹ MAX. OPER. POWER DISS. (W)	8 ¹ RATED POWER SPAN (V)	9 ¹ INPUT LOGIC LEVELS	10 ¹ MIN. SINK CURRENT (A)	11 ¹ MIN. CLOCK FREQ. (Hz)	12 ¹ OPER. TEMP. RANGE (°C)	DRAWINGS
3													
4													
5													
7													
8													
10													
11													
13													
15													
16													

- 3 § - No. of words is variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.
- § - More than one circuit

- 4 § - No. of bits/word variable
- △ - Multi-word output
- % - 128
- * - 256

SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

▼ TYPE NO. SYMBOLS AND CODES AT TOP OF INTERPRETER CARD

- 5 LETTER
 - D - Dynamic
 - S - Static
 - P - Pseudo Static
- SYMBOL
 - % - Type can be operated in either mode (dynamic or static); listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.
 - § - Multifunction circuit; see circuit diagram

- 7 † - Typical
- * - Minimum
- § - Propagation delay
- ⊗ - At 25°C
- ◆ - Other than 25°C

- 8 † - Typical
- * - Minimum
- § - Min. write-pulse width
- △ - Max. read-write cycle time
- ⊗ - At 25°C
- % - Sum of min. write-pulse width and max. write-pulse delay time

- 10 11 # - Absolute max.

- 13 † - Typical
- # - Maximum
- △ - Open collector/drain output
- § - Three-state output

- 15 ◆ - V_{in}

- 16 † - Typical
- # - Maximum
- △ - Max. refresh time (inverted)
- ⊗ - At 25°C
- § - Max refresh time (seconds)

NOTE: t_{wc} (min) → @ max value; specified as min or max as indicated by manufacturer. Meaning is identical.

NOTE: This column applies for dynamic (not static) devices.

INTERPRETER

SYMBOLS & CODES

3. READ ONLY MEMORIES (ROMS)

LINE No.	TYPE No.	ORGANIZATION			MAX ACCESS TIME (t)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN	INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT (A)	OPER. TEMP. RANGE (°C)	GENERAL DESCRIPTION	DRAWINGS	
		No. WORDS	2 BITS PER WORD	MODE				MAX '0' (V)	MIN '1' (V)				LOGIC/BLOCK	OUTLINE
3	▼	3	4	5	7	9	10	12	14	17				

IN ORDER OF (1) No. WORDS (2) No. BITS/WORD (3) OP. MODE PRG. CODE (4) STRUCT. (5) MAX. ACC. TIME (6) TYPE No.

3 § - No. of words is variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.
§ - More than one circuit

4 § - No. of bits/word is variable

14 ◆ - V_{in}

5 2-LETTER CODE: X X

OPERATING MODE	PROGRAM CODE
D: Dynamic (see description column for max. refresh time or min. clock freq.)	C: Mask programmable: custom program
S: Static	E: Electrically programmable
	S: Mask programmable: standard program (see the description column for program).

SYMBOLS
%: Type can be operated in either mode (dynamic or static); listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type number; see Cross Index.

7 † - Typical
* - Minimum
§ - Propagation delay
△ - Cycle time
∅ - At 25°C
◆ - Other than 25°C

9 10 # - Absolute max.

12 † - Typical
- Maximum
△ - Open collector/drain output
§ - Three-state output
φ - Active Pull-up (Totem Pole)

17 CS - Chip Select
EAROM - In-circuit Alterable ROM
EPROM - UV Erasable ROM
fc - Min. clock frequency
FO - Fan Out
KE - Key Encoder
PLA - Programmable Logic Array (see PLA in Sec. 20-Special Memory Devices)
PR - Program
PROM - Fusible Link ROM
Pwr Sw - Power Switched/Power Down Capability
RMM - Read Mostly Memory
Std - Standard
TA - Transistor Array (see TRA in Sec. 20-Special Memory Devices)
TR - Max. refresh time
Vol. - Volatile

4. CHARACTER GENERATORS

LINE No.	TYPE No.	USE CODE	No. CHARACTERS		STRUC. TURE	MAX ACCESS TIME (t)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN	INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT (A)	OPER. TEMP. RANGE (°C)	GENERAL DESCRIPTION	DRAWINGS	
			No. CHARACTERS	PER CHAR.					MAX '0' (V)	MIN '1' (V)				LOGIC/BLOCK	OUTLINE
3	▼	3	4	5	6	8	10	11	13	15					

IN ORDER OF (1) USE CODE (2) No. CHARACTERS (3) No. BITS/CHARACTER (4) No. CHARACTERS PER CHAR. (5) STRUCT. (6) TYPE No.

3 3-LETTER CODE X X X

OPERATING MODE	FONT	DISPLAY
D: Dynamic	A: ASCII	A: Row or Column scan
S: Static	B: Alpha	C: Raster: Column scan
	C: Custom	R: Raster: Row scan
	E: EBCDIC	S: Segment or dot
	H: Hollerith (compressed)	T: CRT
	N: Numeric	X: Not specified
	S: Selectric	
	X: Not specified	

SYMBOLS
§ - Does not scan complete line; scans characters by sections.
∇ - Scans two lines at the same time.
% - Operates in more than one mode; indicated by the addition of D.A.T.A. modifier (#1, #2, etc.) to type number.
\$ - Includes Japanese font * - Math symbols
∅ - Includes Greek font # - Alphanumeric control characters
△ - Shifted characters ◆ - Special symbols

4 § - No. of characters variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type number.
∇ - No. shown represents only half of complete code; other half is generated by companion device.

5 § - No. of bits/character is variable.
∇ - Two devices required to generate complete scan.
§ - No. of bits/character includes shift control.

6 LETTER CODE:
A: 7 x 8 Array

SYMBOLS:
§ : Individual characters scanned by one-half the outputs

8 † - Typical
* - Minimum
§ - Propagation delay
△ - Cycle time
∅ - At 25°C
◆ - Other than 25°C

10 11 # - Maximum

13 † - Typical
- Maximum
△ - Open collector/drain output
§ - Three-state output

15 ◆ - V_{in}

• SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

▼ TYPE NO. SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER CARD

INTERPRETER SYMBOLS & CODES

SYMBOLS & CODES COMMON TO ALL TECHNICAL SECTIONS

NOTE: UNLESS OTHERWISE INDICATED, ALL CHARACTERISTICS APPLY OVER THE ENTIRE OPERATING TEMPERATURE RANGE.

LINE NO.	
▼	New Type
◆	Revised Specification
#	Manufactured Outside U.S.A.

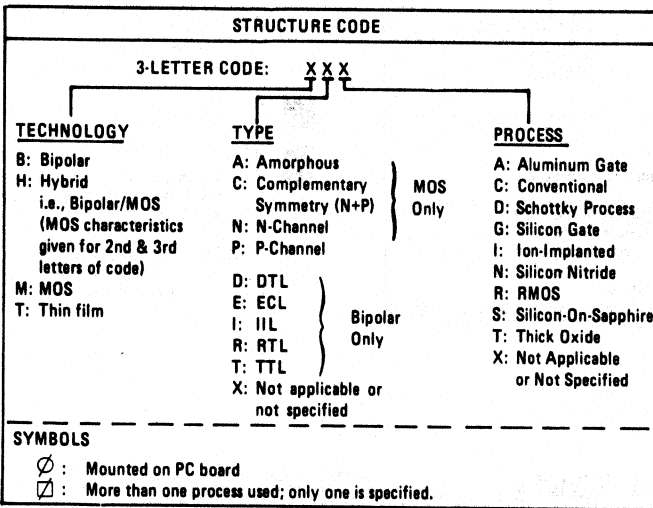
OUTLINE DRAWINGS	
CY	TO 5-type (non-JEDEC)
CH	Chip Package
FL	Flat package (non-JEDEC)
ML	Molded or encapsulated package not included in other categories.
MO	Standard JEDEC outline
PL	Printed circuit board
TO	Standard JEDEC outline
☐	Package style only shown; no dimensions.

MAX. OPERATING POWER DISSIPATION	
†	Typical
*	Minimum
%	Per bit
◆	Quiescent power dissipation
☐	Absolute maximum
⊗	At 25°C

INPUT LOGIC LEVEL: MAX. '0'	
†	Typical
*	Minimum
%	Output (not Input) value given. (This also applies for value given for '1' level.)
◆	Bipolar load only; can be adjusted for the MOS load. (Applies for '1' level value, also)
⊗	At 25°C

MINIMUM OUTPUT SINK CURRENT	
†	Typical
#	Maximum
\$	Minimum output source current
△	Minimum output high current
◆	Maximum output leakage current
%	Minimum driving (fanout) current
⊗	Absolute max. rated output current
⊗	At 25°C

LOGIC/BLOCK DRAWINGS	
A	RAMs
B	ROMs
C	Character Generators
E	Code Converters
F	Shift Registers
Z	Special Devices
§	Optional Terminal Connections available; consult manufacturer



OPERATING TEMPERATURE CODE	
0	0 up to 10°C
1	10 up to 20°C
2	20 up to 30°C
3	30 up to 40°C
4	40 up to 50°C
5	50 up to 60°C
6	60 up to 70°C
7	70 up to 80°C
8	80 up to 90°C
9	90 up to 100°C
A	100 up to 110°C
B	110 up to 120°C
C	120 up to 130°C
D	130 up to 140°C
E	140 up to 150°C
F	150 up to 160°C
G	160 up to 170°C
H	170 up to 180°C
J	180 up to 190°C
K	190 up to 200°C
▼ - USED IN NEGATIVE COLUMN TO INDICATE VALUE IS POSITIVE	
EXAMPLES OF OPERATING TEMP. RANGE CODE:	
5 C	
Min. value Lies between -50°C and -60°C	Max. value Lies between +120°C and +130°C
O R	
1 ▼ 8	
Min. value Lies between +10°C and +20°C	Max. value Lies between +80°C and +90°C

6. CODE CONVERTERS

LINE No.	TYPE No.	CONVERSION CODE		No. OF WORDS	No. OF BITS	M O D	STRUCTURE CODE	MAX. ACCESS TIME (μ)	MAX. OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN. OUTPUT CURRENT (A)	OPER. TEMP. RANGE (°C)	DRAWINGS	
		IN	OUT							NEG. (V)	POS. (V)	MAX. (V)	MIN. (V)			LOGIC/BLOCK	OUTLINE
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

3 4 NUMBER:

- | | |
|---------------|-----------------|
| 1 - USASCII | 6 - Hollerith |
| 2 - EBCDIC | 7 - 96-column |
| 3 - Selectric | 8 - Key Encoded |
| 4 - BCD | 9 - Custom |
| 5 - Binary | 10 - Baudot |
| | 11 - EIA RS244A |

SYMBOL: ("From" column)

% - Device has more than one conversion capability; listed on separate lines.

5

\$ - No. of words is variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.

§ - More than one circuit

◆ - No. of words per separate code conversion

* - Product of keys x modes for keyboard encoders

Note: Adjacent column (No. Code Bits IN) gives no. of keys.

6 7

- ☐ - Includes even parity bit
- ⊗ - Includes odd parity bit
- § - Includes both odd and even parity bits

10

- † - Typical
- * - Minimum
- \$ - Propagation delay
- △ - Cycle time
- ⊗ - At 25°C
- ◆ - Other than 25°C
- % - Key bounce delay

8

- LETTER
- D - Dynamic
 - S - Static

SYMBOL

% - Type can be operated in either mode (dynamic or static); listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.

12 13

- Absolute max.

15

- † - Typical
- # - Maximum
- △ - Open collector/drain Output
- § - Three-state output

17

◆ - V_{in}

• SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

▼ TYPE NO. SYMBOLS AND CODES AT TOP OF INTERPRETER CARD

INTERPRETER

SYMBOLS & CODES

7. SHIFT REGISTERS

LINE No.	TYPE No.	ORGANIZATION		OPER. CODE	MAX. WORST CASE FREQ. (Hz)	STRUCTURE CODE	MAX. OPER. PWR. DISS. (W)	RATED POWER SUPPLY SPAN	INPUT LOGIC LEVELS		MAX. PROP. DELAY (s)	MIN. OUTPUT SINK CURRENT (A)	MIN. OUTPUT CLOCK FREQ. (Hz)	OPER. TEMP. RANGE	DRAWINGS
		1. BITS PER REGISTER	2. No. REGS						MAX. '0'	MIN. '1'					
3	4	5	6	9	10	12	13	15	16						

- 3** \$ - No. of bits/register made variable by internal gating
 § - Individual registers contain different numbers of bits; max. no. is specified (see schematic)
 Δ - Accumulator
 ▽ - No. of bits/register made variable by custom programming; max. no. is specified
- 4** \$ - Separate input and/or output is made available for connection to intermediate stages
 * - No. of Stages

- 6** † - Typical
 * - Minimum
 Δ - Max. clock rate
 % - Max. toggle freq.
 ∅ - At 25°C
 ▢ - Data repetition rate

- 9 10** # - Absolute max.

- 12** † - Typical
 # - Maximum
 Δ - Open collector/drain output
 § - Three-state output

- 13** † - Typical
 * - Minimum
 Δ - Transition time
 § - Average propagation delay
 ∅ - At 25°C
 ▢ - Read Access Time

- 15** ♦ - V_{in}

- 16** † - Typical
 # - Maximum
 Δ - Max. refresh time (inverted)
 ∅ - At 25°C

NOTE: This column applies for dynamic (not static) devices

5 3-LETTER CODE: X X X

INPUT	OUTPUT	OPERATING MODE
P: Parallel S: Series	P: Parallel S: Series	D: Dynamic S: Static

SYMBOLS

\$ - Chip contains associated circuitry
 § - Multifunction circuit; application depends on external connections
 % - Type can be used in either dynamic or static mode; listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no. (see Cross Index)
 ▽ - FIFO Memory (1st In, 1st Out)
 * - Device contains additional memory storage (see logic diagram)

20. SPECIAL MEMORY DEVICES

LINE No.	TYPE No.	ORGANIZATION		MODE	STRUCTURE CODE	MAX. ACCESS TIME (s)	MAX. OPER. PWR. DISS. (W)	RATED SUPPLY SPAN	INPUT LOGIC LEVELS		MIN. OUTPUT SINK CURRENT (A)	MIN. OUTPUT VOLTAGE (V)	TEMP. RANGE	GENERAL DESCRIPTION	LOGIC/BLOCK	OUTLINE
		1. FUNC. CODE	2. No. WORDS						MAX. '0'	MIN. '1'						
3	4	5	6	8	10	11	13	15	18							

- 3** ATN - Arc Tan
 CAM - Content Addressable Memory (CAM)
 CCD - Charge-Coupled Device
 COS - Cosine
 MBM - Magnetic Bubble Memory
 MUL - Multipliers
 PGA - Programmable Gate Array
 PLA - Programmable Logic Array (PLA)
 PLS - Programmable Logic Sequencer
 PRP - Programmable ROM Patch
 PMX - Programmable Multiplexer
 QBF - Quick Brown Fox
 RYG - Rhythm
 SCN - Sine-Cosine
 SIN - Sine
 TRA - Transistor Array
 SYS - Special Memory Systems and Subsystems

- 4** \$ - No. of words is variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.
 § - More than one circuit
 Δ - No. of loops (Bubble Mem.)
- 5** \$ - No. of bits/word is variable
 Δ - No. of bits per loop

- 8** † - Typical
 * - Minimum
 \$ - Propagation delay
 Δ - Cycle time
 ∅ - At 25°C
 ♦ - Other than 25°C

- 10 11** # - Absolute max.
 Δ - Differential coil voltage

- 13** † - Typical
 # - Maximum
 Δ - Open collector/drain output
 § - Three-state output

- 15** ♦ - V_{in}

- 18** RAM/ROM - Two mode device (RAM/EAROM)
 RHY - Rhythms
 VAR - Variable
 VOL - Volatile

6 2-LETTER CODE X X

OPERATING MODE	PROGRAM CODE
D: Dynamic (see description column for max. refresh time or min. clock freq.) S: Static	C: Mask programmable: custom program E: Electrically programmable: standard program (see the description column for program) S: Mask programmable: standard program (see the description column for program) W: Addressable writing

SYMBOLS

% : Type can be operated in either mode (dynamic or static); listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type number; see Cross Index.

NOTE: For PGA's and PLA's the number in the "No. Words" column represents the max. no. of product terms (1 for PGA's); the number in the "Bits per word" column represents the no. of outputs.

For PMX's the number in the "No. Words" column represents the no. of multiplexer inputs; the figure in the "Bits per Word" column represents the no. of outputs.

• SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

▼ TYPE NO. SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER CARD