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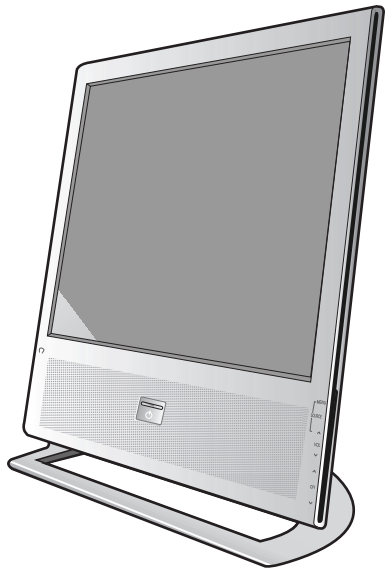
TFT-LCD TV/MONITOR

Chassis
MB15S*

Model
LS15S13C

SERVICE *Manual*

TFT-LCD TV/MONITOR



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1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC Power Jack before servicing.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):

WARNING: Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

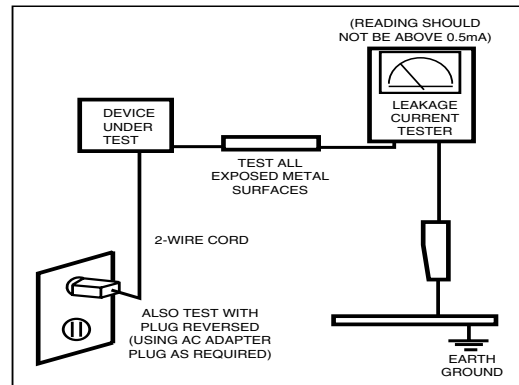


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.

Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
 - (a) remove or reinstall any component or assembly,
 - (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

2 Product Specifications

2-1 Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normaly white, 15-Inch viewable, 0.297 mm pixel pitch	
Scanning Frequency	Horizontal : 30 KHz ~ 61 KHz (Automatic) Vertical : 56 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 Million colors	
Maximum Resolution	Horizontal : 1024 Pixels Vertical : 768 Pixels	
Input Video Signal	Analog 0.7 Vp-p ± 5% positive at 75 Ω, internally terminated	
Input Sync Signal	Type : Seperate H/V Level : TTL level	
Maximum Pixel Clock rate	80 MHz	
Active Display Horizontal/Vertical	304.1 mm / 228.1 mm	
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60 / 50 Hz ± 3 Hz	
Power Consumption	43W (Max)	
Dimensions Unit (W x D x H) Carton (W x D x H)	13.6 x 6.7 x 14.2 Inches (346.0 x 169.0 x 361.5 mm) 16.8 x 4.5 x 21.0 Inches (427 x 114 x 535 mm)	
Weight	3.2 Kg / 7.05 lbs (With Stand)	
Environmental Considerations	Operating Temperature : 50 °F ~ 104 °F (10 °C ~ 40 °C) Humidity : 10 % ~ 80 % Storage Temperature : -4 °F ~ 113 °F (-20 °C ~ 45 °C) Humidity : 5 % ~ 95 %	
TV System	Tunning	Frequency Synthesize
	System	PAL, SECAM, NTSC4.4, NTSC3.58
	Sound	BG, DK, I, M
Antena Input	75Ω, Coaxial Cable	
Sound Characteristic	– MAX Internal speaker Out : Right => 3W Left => 3W	
	– BASS Control Range : -12 dB~ + 12 dB – TREBLE Control Range : -12 dB~ + 12 dB – Headphone Out: 5mW max (400m Vrms) – Output Frequency : RF => 80 Hz ~ 15 KHz A/V => 80 Hz ~ 15 KHz	

2-2 Pin Assignments

2-2-1 D-SUB

Pin	Separate
1	Red
2	Green
3	Blue
4	GND
5	GND (DDC Return)
6	GND-Red
7	GND-Green
8	GND-Blue
9	No Connection
10	GND-Sync./Self Test
11	GND
12	DDC Data
13	H-Sync.
14	V-Sync.
15	DDC Clock

2-2-2 DVD, DTV

RCA Green	Y
	GND
RCA Blue	Pb (Cb)
	GND
RCA Red	Pr (Cr)
	GND
RCA White	Audio L
	GND
RCA Red	Audio R
	GND

2-2-3 S-Video

Pin	Separate
1	Y
2	C
3	GND
4	GND
5	GND

2-2-4 A/V

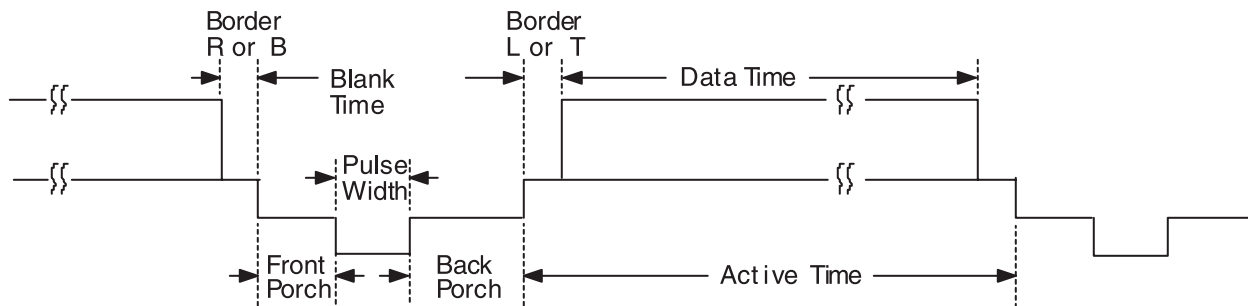
RCA Yellow	CVBS
RCA White	Audio L
	GND
RCA Red	Audio R
	GND

2-3 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

2-3-1 LCD Panel Mode : 1 mode

Timing No.	15
Originator	VESA
Mode Name	1024/60Hz
Resolution (HxV)	1024x768
HORIZONTAL	
Frequency	48.363kHz
Total time	20.677 μ s
Active time	15.754 μ s
Blank time	4.923 μ s
Border (L / R)	0.000 μ s
Data time	15.754 μ s
Front porch	0.369 μ s
Sync. width	2.092 μ s
Back porch	2.462 μ s
Sync. polarity	Negative
VERTICAL	
Frequency	60.004Hz
Total time	16.666ms
Active time	15.880ms
Blank time	0.786ms
Border (T / B)	0.000ms
Data time	15.880ms
Front porch	0.062ms
Sync. width	0.124ms
Back porch	0.600ms
Sync. polarity	Negative
Dot Clock	65.000MHz
Sync. Type	Separate
Scan Type	N/I



2-3-2 Supported Modes (1)

Timing No.	2	3	11	17	32
Originator	IBM	MAC	VESA	VESA	MAC
Mode Name	VGA2	VGA3	640/72Hz	640/75Hz	640/67Hz
Resolution (HxV)	720x400	640x480	640x480	640x480	640x480
HORIZONTAL					
Frequency	31.469kHz	31.469kHz	37.861kHz	37.500kHz	35.000kHz
Total time	31.777 μ s	31.778 μ s	26.413 μ s	26.667 μ s	28.571 μ s
Active time	26.058 μ s	26.058 μ s	20.825 μ s	20.317 μ s	21.164 μ s
Blank time	5.720 μ s	5.720 μ s	5.588 μ s	6.350 μ s	7.407 μ s
Border (L / R)	0.318 μ s	0.318 μ s	0.254 μ s	0.000 μ s	0.000 μ s
Data time	25.422 μ s	25.422 μ s	20.317 μ s	20.317 μ s	21.164 μ s
Front porch	0.318 μ s	0.318 μ s	0.508 μ s	0.508 μ s	2.116 μ s
Sync. width	3.813 μ s	3.813 μ s	1.270 μ s	2.032 μ s	2.116 μ s
Back porch	1.589 μ s	1.589 μ s	3.810 μ s	3.810 μ s	3.175 μ s
Sync. polarity	Negative	Negative	Negative	Negative	Negative
VERTICAL					
Frequency	70.087Hz	59.940Hz	72.809Hz	75.000Hz	66.667Hz
Total time	14.268ms	16.683ms	13.735ms	13.333ms	15.000ms
Active time	13.155ms	15.761ms	13.100ms	12.800ms	13.714ms
Blank time	1.113ms	0.922ms	0.635ms	0.533ms	1.286ms
Border (T / B)	0.222ms	0.254ms	0.211ms	0.000ms	0.000ms
Data time	12.711ms	15.253ms	12.678ms	12.800ms	13.714ms
Front porch	0.191ms	0.064ms	0.026ms	0.027ms	0.086ms
Sync. width	0.064ms	0.064ms	0.079ms	0.080ms	0.086ms
Back porch	0.858ms	0.794ms	0.528ms	0.427ms	1.114ms
Sync. polarity	Positive	Negative	Negative	Negative	Negative
Dot Clock	28.322MHz	25.175MHz	31.500MHz	31.500MHz	30.240MHz
Sync. Type	Separate	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I	N/I

2-3-2 Supported Modes (2)

Timing No.	13	14	18	33	16
Originator	VESA	VESA	VESA	MAC	VESA
Mode Name	800/60Hz	800/72Hz	800/75Hz	832/75Hz	1024/70Hz
Resolution (HxV)	800x600	800x600	800x600	832x624	1024x768
HORIZONTAL					
Frequency	37.879kHz	48.077kHz	46.875kHz	49.726kHz	56.476kHz
Total time	26.400μs	20.800μs	21.333μs	20.110μs	17.707μs
Active time	20.000μs	16.000μs	16.162μs	14.524μs	13.653μs
Blank time	6.400μs	4.800μs	5.171μs	5.171μs	4.053μs
Border (L / R)	0.000μs	0.000μs	0.000μs	0.000μs	0.000μs
Data time	20.000μs	16.000μs	16.162μs	14.524μs	13.653μs
Front porch	1.000μs	1.120μs	0.323μs	0.559μs	0.320μs
Sync. width	3.200μs	2.400μs	1.616μs	1.117μs	1.813μs
Back porch	2.200μs	1.280μs	3.232μs	3.910μs	1.920μs
Sync. polarity	Positive	Positive	Positive	Positive	Negative
VERTICAL					
Frequency	60.317Hz	72.188Hz	75.000Hz	74.551Hz	70.069Hz
Total time	16.579ms	13.853ms	13.333ms	13.414ms	14.272ms
Active time	15.840ms	12.480ms	12.800ms	12.549ms	13.599ms
Blank time	0.739ms	1.373ms	0.533ms	0.864ms	0.672ms
Border (T / B)	0.000ms	0.000ms	0.000ms	0.000ms	0.000ms
Data time	15.840ms	12.480ms	12.800ms	12.549ms	13.599ms
Front porch	0.026ms	0.770ms	0.021ms	0.020ms	0.053ms
Sync. width	0.106ms	0.125ms	0.064ms	0.060ms	0.106ms
Back porch	0.607ms	0.478ms	0.448ms	0.784ms	0.513ms
Sync. polarity	Positive	Positive	Positive	Positive	Negative
Dot Clock	40.000MHz	50.000MHz	49.500MHz	49.500MHz	75.000MHz
Sync. Type	Separate	Separate	Separate	Separate	Separate
Scan Type	N/I	N/I	N/I	N/I	N/I

2-3-2 Supported Modes (3)

Timing No.	19	15
Originator	VESA	VESA
Mode Name	1024/75Hz	1024/60Hz
Resolution (HxV)	1024x768	1024x768
HORIZONTAL		
Frequency	60.023kHz	48.363kHz
Total time	16.660 μ s	20.677 μ s
Active time	13.003 μ s	15.754 μ s
Blank time	3.777 μ s	4.923 μ s
Border (L / R)	0.000 μ s	0.000 μ s
Data time	13.003 μ s	15.754 μ s
Front porch	0.323 μ s	0.369 μ s
Sync. width	1.219 μ s	2.092 μ s
Back porch	2.235 μ s	2.462 μ s
Sync. polarity	Positive	Negative
VERTICAL		
Frequency	75.029Hz	60.004Hz
Total time	13.328ms	16.666ms
Active time	12.795ms	15.880ms
Blank time	0.533ms	0.786ms
Border (T / B)	0.000ms	0.000ms
Data time	12.795ms	15.880ms
Front porch	0.017ms	0.062ms
Sync. width	0.050ms	0.124ms
Back porch	0.466ms	0.600ms
Sync. polarity	Positive	Negative
Dot Clock	78.750MHz	65.000MHz
Sync. Type	Separate	Separate
Scan Type	N/I	N/I

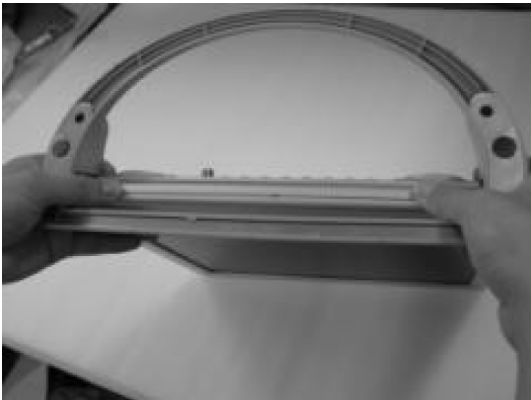
3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the LS15S13C monitor.

WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

3-1 Disassembly

- Cautions:**
1. Disconnect the monitor from the power source before disassembly.
 2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.



1. The stand is held into the bottom of the unit by a pair of retaining clips (near the left and right hinges). To remove the stand, simply pull it away from the unit and the retaining clips will release automatically.



2. Remove the two phillips screws (left and right).



3. Separate the case halves (front/back) starting at the bottom/edges.

3-2 Reassembly

Reassembly procedures are in the reverse order of Disassembly procedures.

4 Alignments and Adjustments

4-1 General Alignment Instruction

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.
7. To protect against shock hazard, use an isolation transformer.

4-2 Factory Mode Adjustments

4-2-1 Entering Factory Mode

1. To enter "Service Mode" Press the remote -control keys in this sequence :

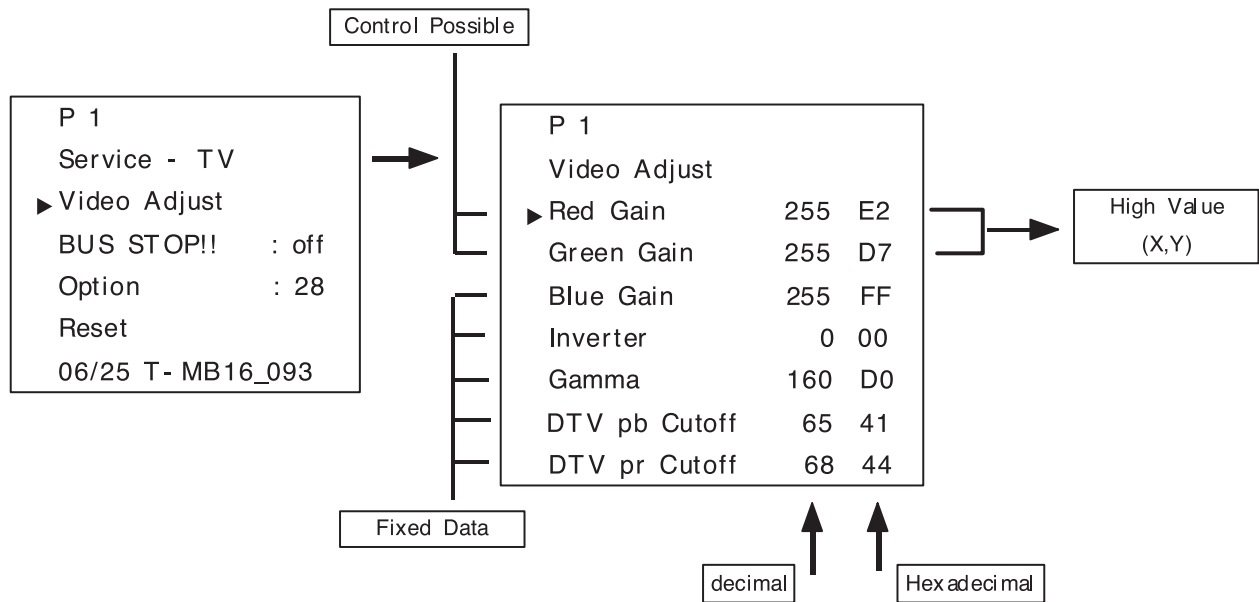
- If you do not have Factory remote - control

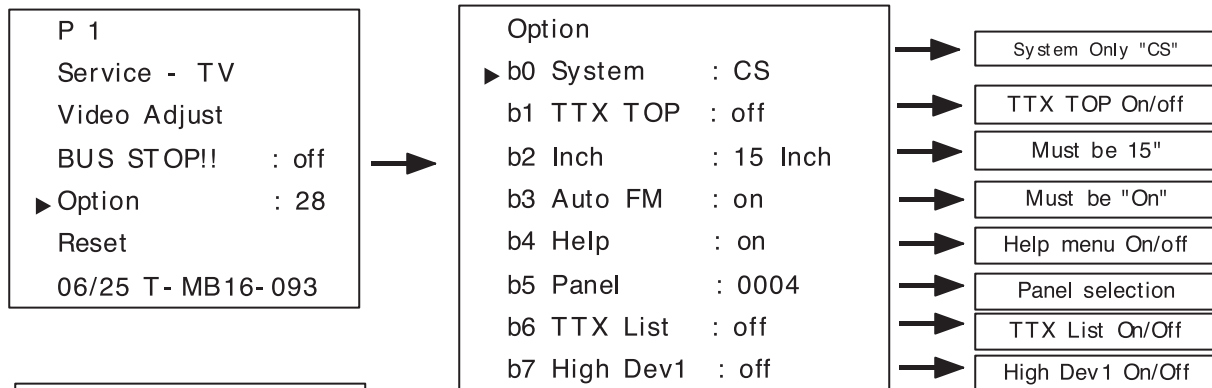
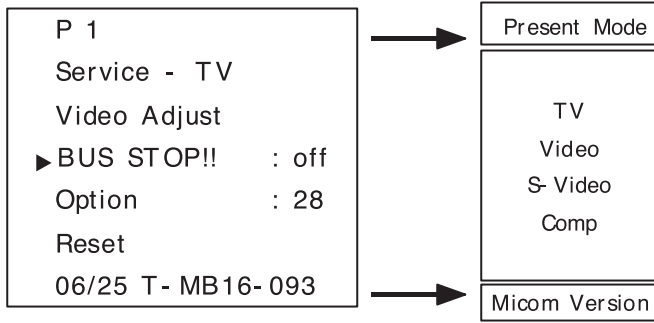


- If you have Factory remote - control



4-2-2 Factory Mode Tree

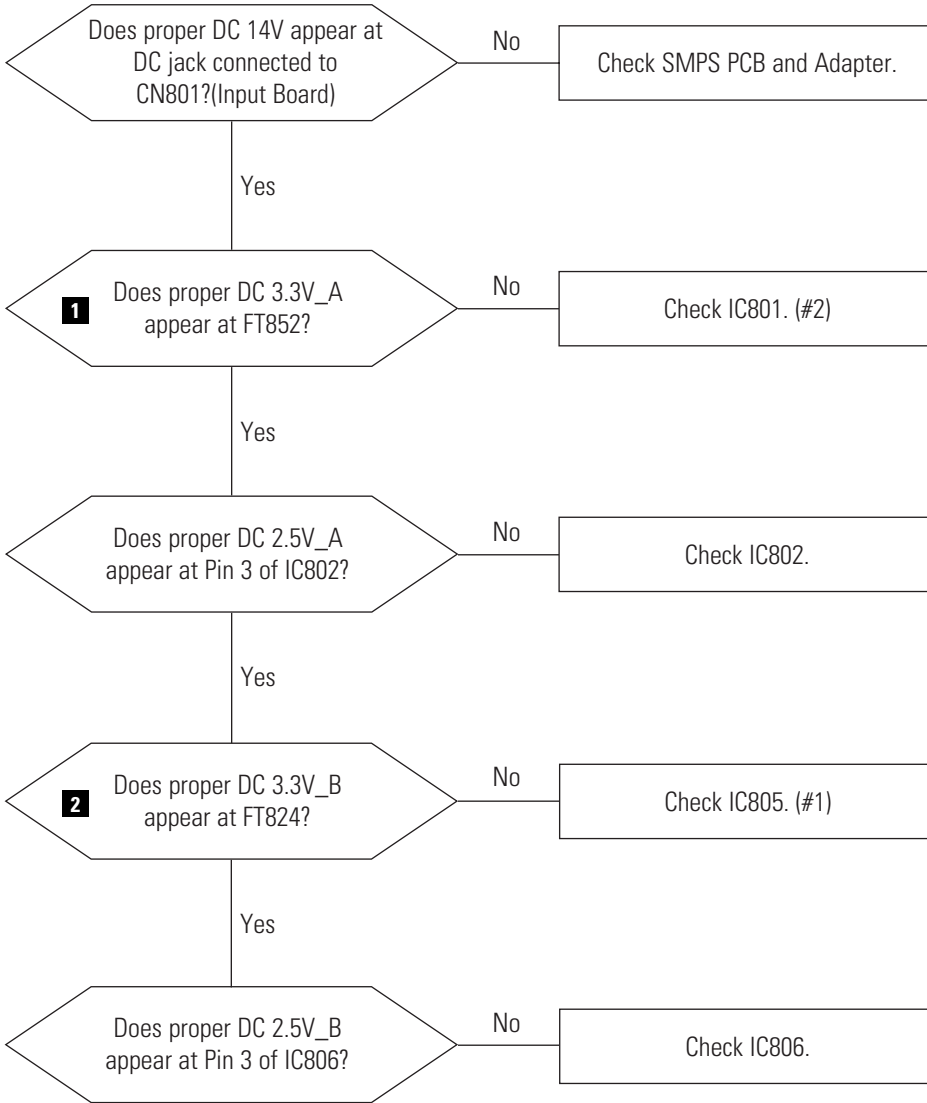




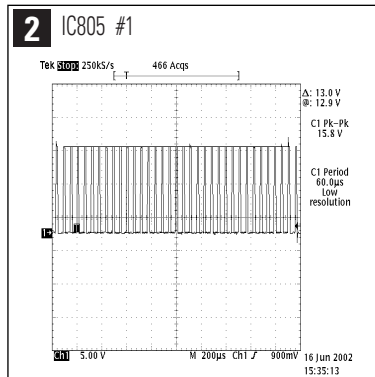
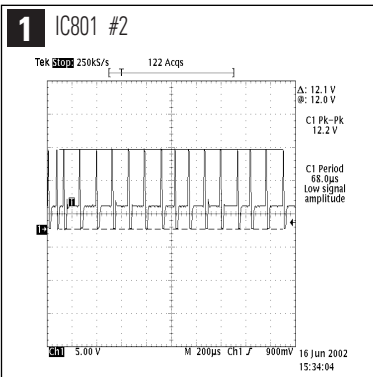
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5 Troubleshooting

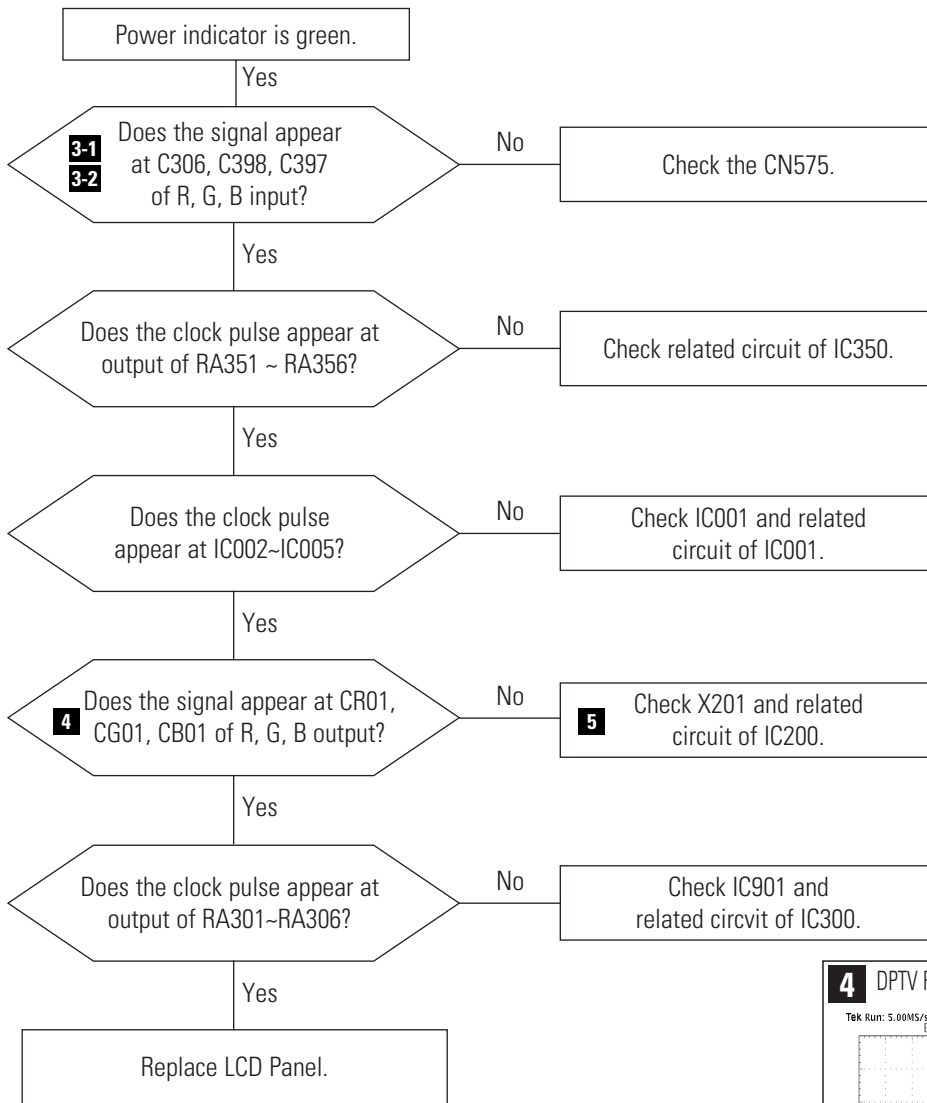
5-1 No Power



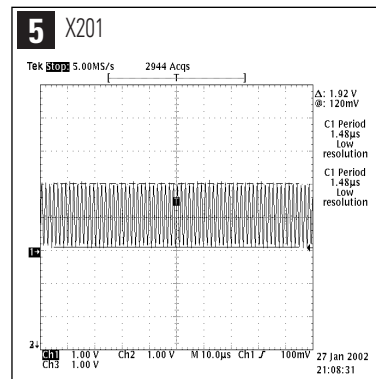
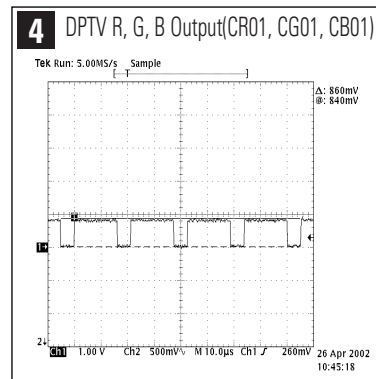
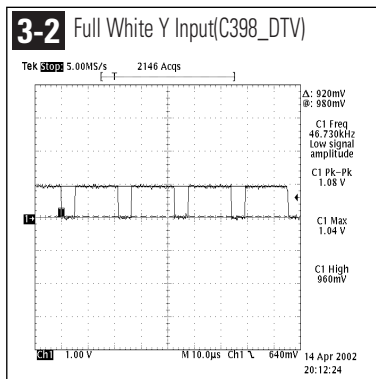
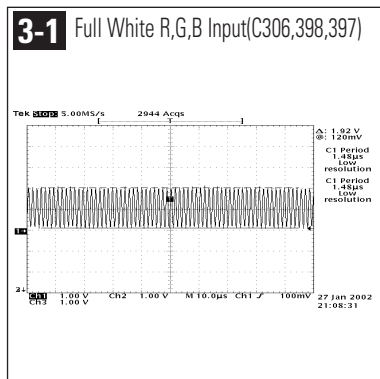
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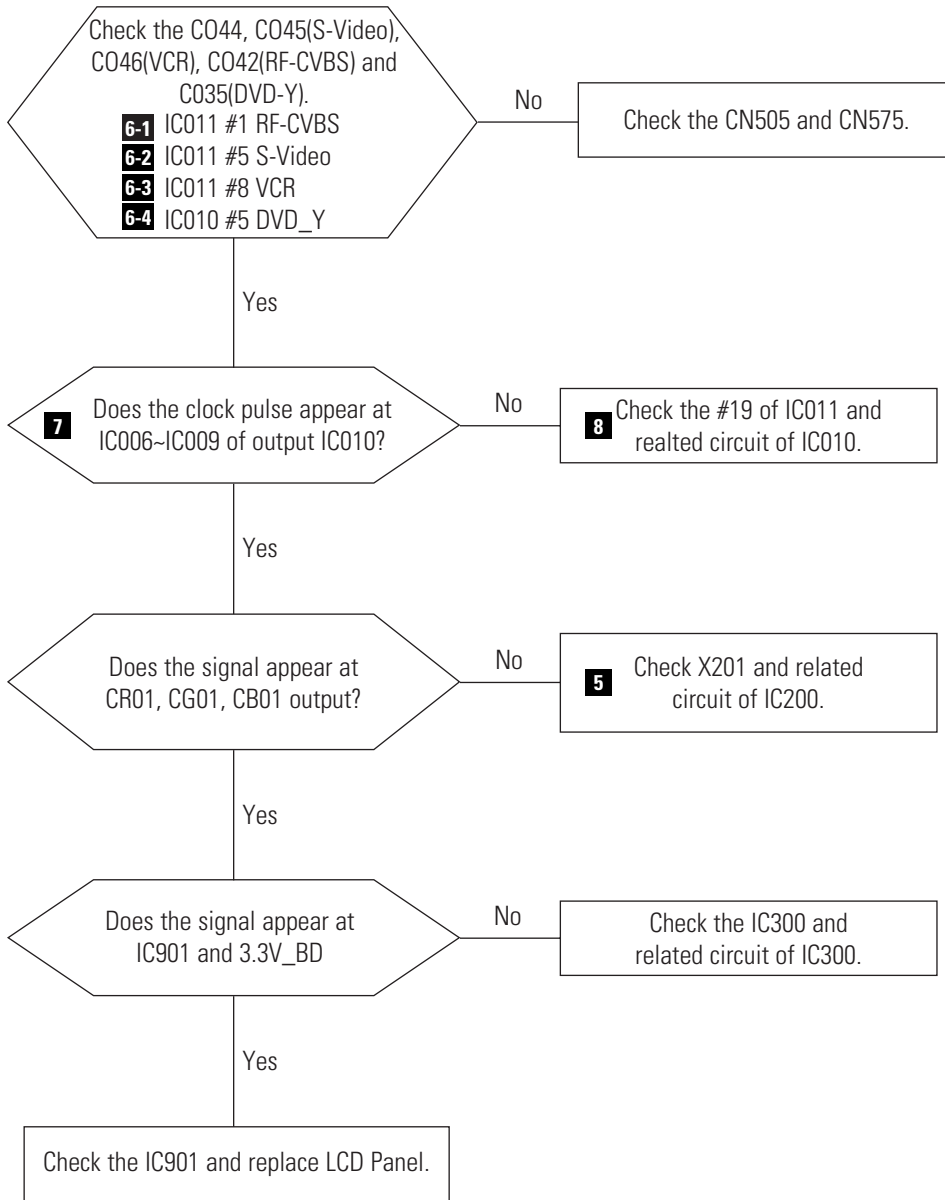
5-2 No Video (PC Signal, Comp [DTV])



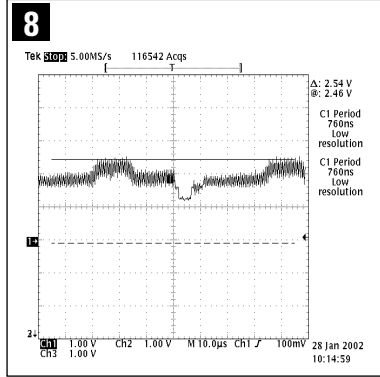
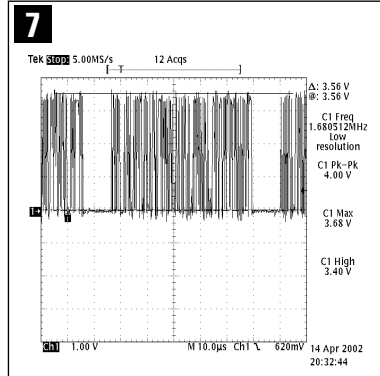
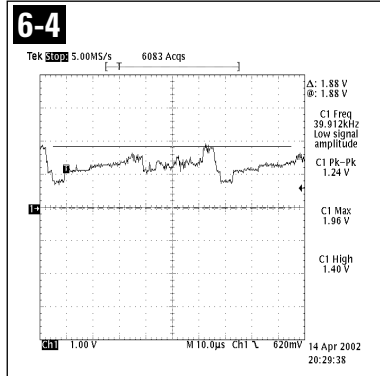
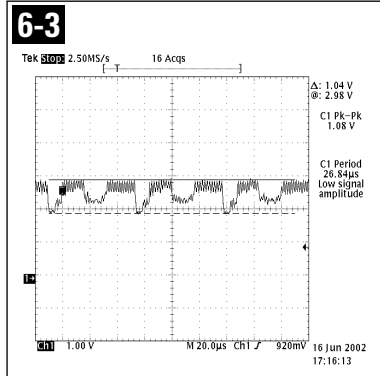
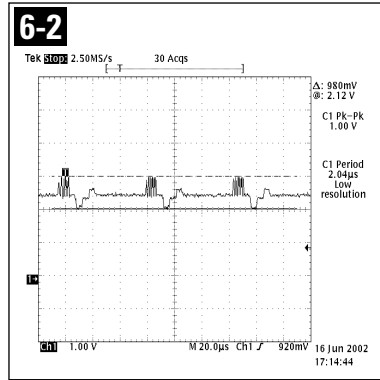
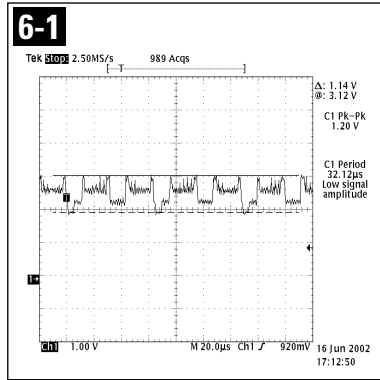
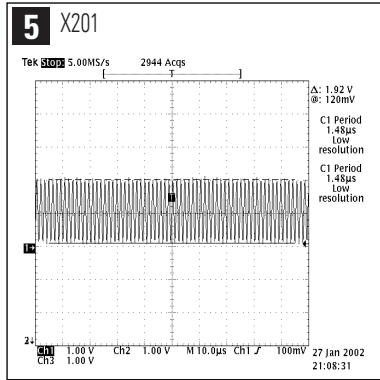
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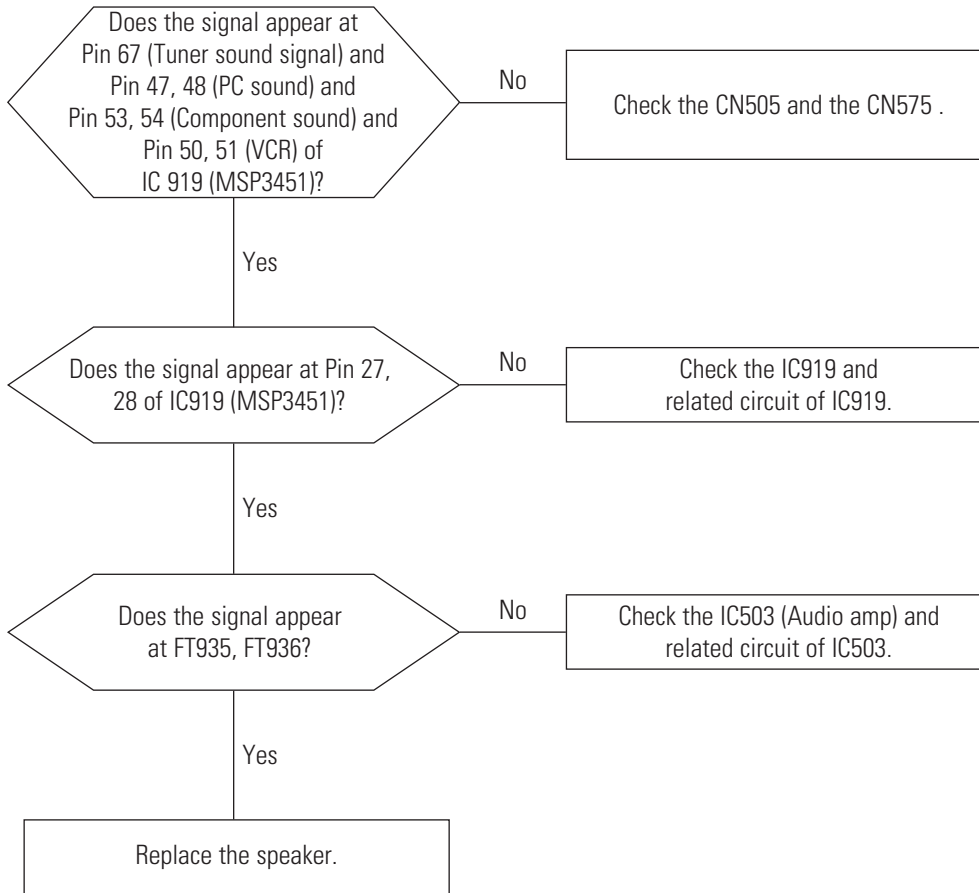
5-3 No Picture (TV, Video, S-Video, Comp[DVD])



WAVEFORMS



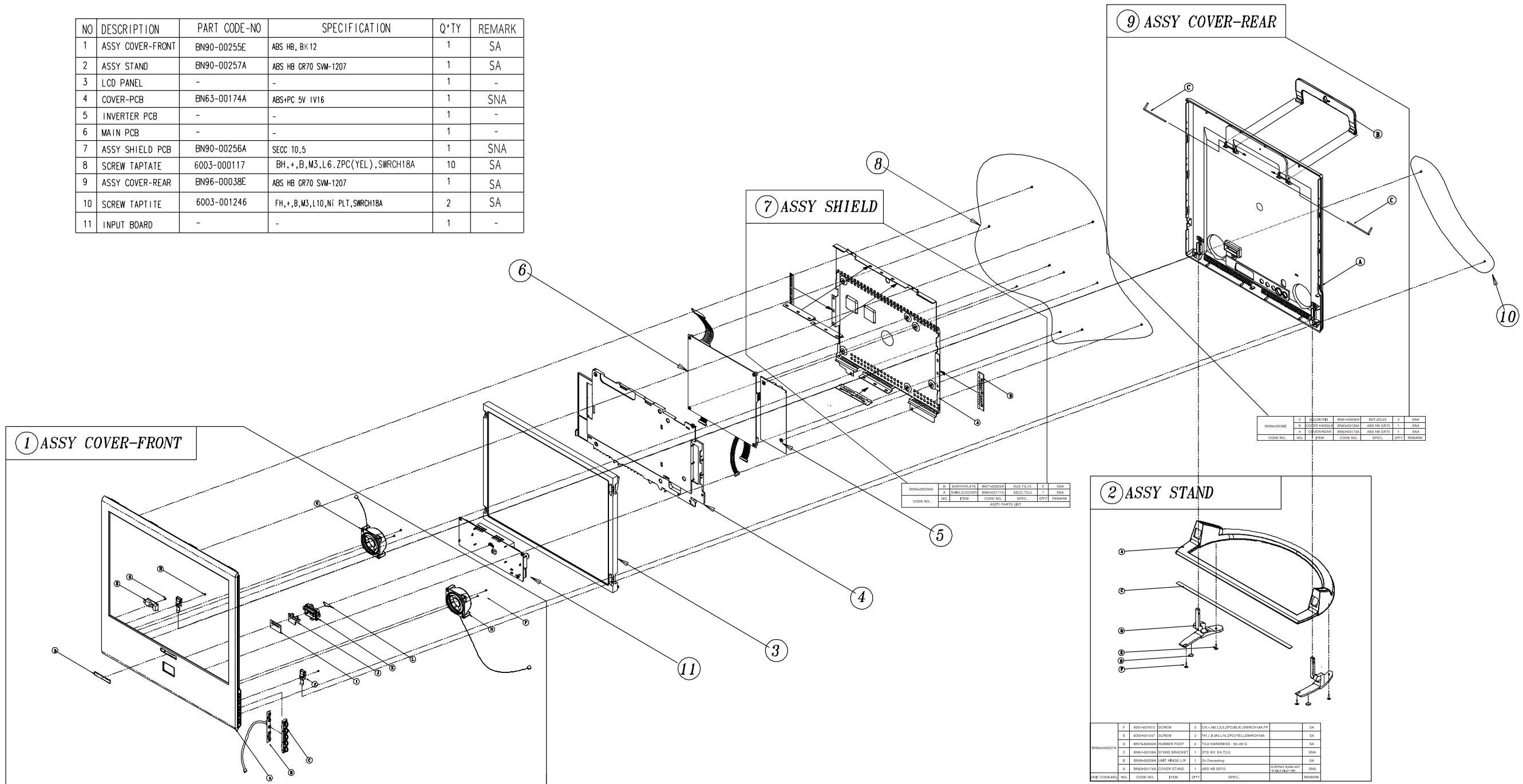
5-4 No Sound



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6 Exploded View and Parts List

NO	DESCRIPTION	PART CODE-NO	SPECIFICATION	Q'TY	REMARK
1	ASSY COVER-FRONT	BN90-00255E	ABS HB, BK12	1	SA
2	ASSY STAND	BN90-00257A	ABS HB GR70 SWM-1207	1	SA
3	LCD PANEL	-	-	1	-
4	COVER-PCB	BN63-00174A	ABS+PC 5V IV16	1	SNA
5	INVERTER PCB	-	-	1	-
6	MAIN PCB	-	-	1	-
7	ASSY SHIELD PCB	BN90-00256A	SECC 10.5	1	SNA
8	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	10	SA
9	ASSY COVER-REAR	BN96-00038E	ABS HB GR70 SWM-1207	1	SA
10	SCREW TAPTITE	6003-001246	FH,+,B,M3,L10,NI PLT,SWRCH18A	2	SA
11	INPUT BOARD	-	-	1	-



UNIT CODE-NO.	NO	DESCRIPTION	PART CODE-NO	SPECIFICATION	Q'TY	REMARK
BN90-00255E	O	SCREW TAPTITE	6003-000259	BWH,+,B,M3,L8,ZPC(YEL)	4	SA
	N	SPEAKER L	BN59-00282A	3W L180	1	SA
	M	SPEAKER R	BN59-00283A	3W L400	1	SA
	L	LENS LED	BN67-00054A	ACRYL(PMMA)CLEAR	1	SA
	K	KNOB POWER	BN64-00056A	ABS HB IV16.NI+CR COATING	1	SA
	J	COVER LENS	BN63-00175A	ABS HB IV16(NONE,1.5)	1	SNA
	I	LENS IR	BN67-00048A	HALF-MIRROR,T1.5	1	SA
	H	SCREW TAPTITE	6003-000259	BWH,+,B,M3,L8,ZPC(YEL)	2	SA
	G	SCREW TAPTITE	6003-000259	BWH,+,B,M3,L8,ZPC(YEL)	1	SA
	F	BRKT SPRING STAND	BN61-00082A	SUS TO.5	2	SNA
	E	HEADPHONE PCB	BN59-00288A	MB15	1	SA
	D	BADGE	BN64-00031A	AL T1.6	1	SNA
	C	KNOB FUNCTION	BN64-00057A	ABS HB BK12	1	SA
	B	FUNCTION PCB	BN59-00287A	MB15	1	SA
A	COVER FRONT	BN63-00172A	ABS HB,BK12	1	SNA	

Memo

7 Electrical Parts List

7-1 Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
-	BN94-00324A	ASSY PCB MAIN	MB15SO	SNA
CIS	0201-001223	ADHESIVE-TS	HT-130S,RED,700+/- 50,-	SNA
CIS	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS	0202-001046	SOLDER-WIRE FLUX	CF-110VH-2A,-,-,-,-	SNA
CIS	0202-001222	SOLDER-WIRE FLUX	RS-107,RS60-1.2AA,D1.2,SN60/PB40,-	SNA
CIS	0204-001095	THINNER	#4520,-,-,-	SNA
CIS	BH73-60304E	RUBBER-SUPPORT	MO15PS,CR V0,6*6*6.4,BLACK	SNA
CIS	BN39-00161B	LEAD CONNECTOR-ASSY	MB15UO,UJ1571#30,UJ,CSA,12P,#28,1250GHS-12,BK,40MM,1571#28,SJ02-01-05	
CIS	BN39-00272A	LEAD CONNECTOR-ASSY	MB15UO,UJ1571#28,UJ,CSA,20P,#28,12507HS-20,BK,50MM,1571#28,SJ01-01-40	
CIS	BN39-00275A	LEAD CONNECTOR-ASSY	MB15UO,UJ1061#28,UJ,CSA,8P,#28,1250GHS-08,1250MM,1061#28,SJ02-01-06	
CIS	BN39-00287A	LEAD CONNECTOR-ASSY	MB15UO,UJ1571#28,UJ,CSA,21P,#28,FI-W21S,FI-W21S,BK,40MM,1571#28,SJ01-01-405(1)	
CIS	BN39-00288A	LEAD CONNECTOR-ASSY	MB15UO,UJ1571#28,UJ,CSA,31(25)P,#28,FI-W31S,FI-W31S,BK,40MM,1571#28,SJ01-01-405(1)	
CIS	BN44-00061B	INVERTER	MB15UO,S1C540A,48KHZ,14VDC,3.6MARMS,6.8MARMS,48KHZ,140*65.5*7.0,4LAMP,48KHZ	
CIS	BN60-00011A	FASTENER-PEM/NUT	MINERVA,SUM24L(SN),M3,-,7.0,6.8,WHT	SNA
CIS	BN63-00174A	COVER-PCB	RB15,ABS,-,-,-,VO,-,IV16,TBBA,1.5	SNA
CIS	BN63-00345A	SHIELD-SUB	MO15,SUS,TO.15	SNA
CIS	BN63-00413A	GASKET	MB15KO,CONDUCTIVE FABRIC,3MM,3MM,8MM,GRAY,71TSMK 8-5-8-13-D,71TSMK 8-5-8-13-D	SNA
ICA1	0903-001194	IC-MICROCONTROLLER	3P863,88i,SDIP,42P,600MIL,12MHz,ST,CMOS,PLASTIC,5V,-,40to+85C,1040BYTE	
-	BN97-00114A	ASSY SMD	MB15SO	SNA
C001	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C002	2203-001140	C-CERAMIC,CHIP	68nF,10%,16V,X7R,TP,1608,-	
C003	2203-001140	C-CERAMIC,CHIP	68nF,10%,16V,X7R,TP,1608,-	
C004	2203-000140	C-CERAMIC,CHIP	1.5nF,10%,50V,X7R,TP,1608,-	
C005	2203-000972	C-CERAMIC,CHIP	47nF,10%,16V,X7R,TP,1608	
C006	2203-001140	C-CERAMIC,CHIP	68nF,10%,16V,X7R,TP,1608,-	
C007	2203-000972	C-CERAMIC,CHIP	47nF,10%,16V,X7R,TP,1608	
C008	2203-000140	C-CERAMIC,CHIP	1.5nF,10%,50V,X7R,TP,1608,-	
C009	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C010	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C011	2203-000903	C-CERAMIC,CHIP	0.0047nF,0.25pF,50V,NPO,TP,1608	
C012	2203-000903	C-CERAMIC,CHIP	0.0047nF,0.25pF,50V,NPO,TP,1608	
C013	2203-000972	C-CERAMIC,CHIP	47nF,10%,16V,X7R,TP,1608	
C014	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C015	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C016	2203-000140	C-CERAMIC,CHIP	1.5nF,10%,50V,X7R,TP,1608,-	
C017	2203-000839	C-CERAMIC,CHIP	0.39nF,5%,50V,NPO,TP,2012	
C018	2203-006036	C-CERAMIC,CHIP	680NF,+80-20%,16V,Y5V,TP,1608	
C019	2203-000140	C-CERAMIC,CHIP	1.5nF,10%,50V,X7R,TP,1608,-	
C020	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C021	2203-000972	C-CERAMIC,CHIP	47nF,10%,16V,X7R,TP,1608	
C022	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C023	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C024	2203-000839	C-CERAMIC,CHIP	0.39nF,5%,50V,NPO,TP,2012	
C025	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C026	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C027	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C028	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C029	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C030	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C031	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C032	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C033	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C034	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C035	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C036	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C037	2203-000839	C-CERAMIC,CHIP	0.39nF,5%,50V,NPO,TP,2012	
C038	2203-000140	C-CERAMIC,CHIP	1.5nF,10%,50V,X7R,TP,1608,-	
C039	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C040	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C041	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C042	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C044	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C045	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C046	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C047	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C049	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C051	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
C052	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
C066	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C067	2203-006036	C-CERAMIC,CHIP	680NF,+80-20%,16V,Y5V,TP,1608	
C068	2203-006036	C-CERAMIC,CHIP	680NF,+80-20%,16V,Y5V,TP,1608	
C069	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C070	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C086	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
C087	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
C088	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
C089	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
C091	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C093	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NPO,TP,1608	
C094	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NPO,TP,1608	
C102	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C103	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C104	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C105	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C200	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C2000	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C2001	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2002	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2003	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2004	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2005	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2006	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2007	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2008	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2009	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2010	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2011	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2012	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2013	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C2014	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2015	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2016	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2017	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2018	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2019	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2020	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2021	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2022	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C2023	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2024	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2025	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2026	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C2027	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C2030	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C2032	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C2036	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C2037	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C2042	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C2045	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2046	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2047	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C2048	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C2049	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C2050	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C2051	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C2052	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C2053	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C2054	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C2055	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C2056	2409-001046	C-ORGANIC	39UF,20%,16V,WT,TP,6.3X6 MM,-	
C214	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C215	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C216	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C217	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C218	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C219	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C221	2203-006017	C-CERAMIC,CHIP	0.56NF,5%,50V,COG,TP,1608	
C222	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C223	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C224	2203-006017	C-CERAMIC,CHIP	0.56NF,5%,50V,COG,TP,1608	
C225	2203-000552	C-CERAMIC,CHIP	0.02nF,5%,50V,NPO,TP,1608	
C226	2203-000552	C-CERAMIC,CHIP	0.02nF,5%,50V,NPO,TP,1608	
C229	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C231	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C232	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C234	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C235	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C236	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C237	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C238	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C239	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C241	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C242	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C244	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C245	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C246	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C247	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C248	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C249	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C250	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C251	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C252	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C254	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C257	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C258	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C259	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C261	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C264	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C267	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C268	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C269	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C271	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C273	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
C274	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C275	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C276	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C277	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C278	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C279	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C281	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C282	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C283	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C284	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C288	2402-001155	C-AL,SMD	47uF,20%,16V,WT,TP,6.3X5.2MM	
C289	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C290	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C291	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C292	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C293	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C294	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C295	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C296	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C297	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C298	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C299	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C301	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C302	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C303	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C304	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C306	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C307	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C308	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C309	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C310	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C311	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C312	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C313	2203-000839	C-CERAMIC,CHIP	0.39nF,5%,50V,NPO,TP,2012	
C314	2203-000239	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,2012	
C315	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C318	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C319	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C320	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C321	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C322	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C323	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C327	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C328	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C329	2402-001155	C-AL,SMD	47uF,20%,16V,WT,TP,6.3X5.2MM	
C331	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C332	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C333	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C334	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C336	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C337	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C338	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C339	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C3405	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C3406	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C3407	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C3408	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C3409	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C341	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C3410	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C342	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C343	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C344	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C347	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C348	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C349	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C351	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C352	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C353	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C354	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C357	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C358	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C359	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C363	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C364	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C365	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C366	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C367	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C368	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C369	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C371	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C372	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C373	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C374	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C375	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C376	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C377	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C378	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C379	2203-000972	C-CERAMIC,CHIP	47nF,10%,16V,X7R,TP,1608	
C381	2203-000726	C-CERAMIC,CHIP	3.9nF,10%,50V,X7R,TP,1608,-	
C382	2402-000135	C-AL,SMD	22uF,20%,16V,GP,TP,5.3x5.3x5.4	
C383	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C384	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C385	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C386	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C387	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C388	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C389	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C391	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C392	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C393	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C397	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C398	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C3A1	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3A2	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3A3	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3A4	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3A5	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3A6	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3A7	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3A8	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3A9	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3AA	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3AB	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3AC	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C3AD	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C401	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C404	2203-001656	C-CERAMIC,CHIP	0.47nF,5%,50V,NPO,TP,1608	
C454	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C455	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C456	2203-000815	C-CERAMIC,CHIP	0.033nF,5%,50V,NPO,TP,1608	
C485	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C486	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C488	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C489	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C491	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C492	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C497	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C498	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C502	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C503	2203-001630	C-CERAMIC,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	
C504	2402-001018	C-AL,SMD	470nF,20%,50V,GP,TP,4.3x4.3x5.	
C505	2402-001018	C-AL,SMD	470nF,20%,50V,GP,TP,4.3x4.3x5.	
C506	2203-001630	C-CERAMIC,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	
C507	2203-001630	C-CERAMIC,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	
C508	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C509	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4	
C510	2409-001075	C-ORGANIC	33uF,20%,10V,WT,TP,5X5.9X5.3MM,1.4	
C511	2409-001075	C-ORGANIC	33uF,20%,10V,WT,TP,5X5.9X5.3MM,1.4	
C527	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C535	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C536	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C537	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C538	2203-000140	C-CERAMIC,CHIP	1.5nF,10%,50V,X7R,TP,1608,-	
C543	2203-001656	C-CERAMIC,CHIP	0.47nF,5%,50V,NPO,TP,1608	
C545	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C546	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C549	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C551	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C552	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C553	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C554	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C555	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C556	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C557	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C558	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C559	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C561	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	

Loc. No.	Code No.	Description	Specification	Remarks
C562	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C565	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C566	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C567	2203-001077	C-CERAMIC,CHIP	0.056nF,5%,50V,NPO,TP,2012	
C568	2203-001077	C-CERAMIC,CHIP	0.056nF,5%,50V,NPO,TP,2012	
C569	2203-001656	C-CERAMIC,CHIP	0.47nF,5%,50V,NPO,TP,1608	
C571	2203-001077	C-CERAMIC,CHIP	0.056nF,5%,50V,NPO,TP,2012	
C572	2203-000280	C-CERAMIC,CHIP	0.01nF,0.5pF,50V,NPO,TP,1608	
C574	2203-000140	C-CERAMIC,CHIP	1.5nF,10%,50V,X7R,TP,1608,-	
C575	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C576	2203-000972	C-CERAMIC,CHIP	47nF,10%,16V,X7R,TP,1608	
C577	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C601	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C602	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C603	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C604	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C605	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C606	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C607	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C608	2203-000357	C-CERAMIC,CHIP	0.15nF,5%,50V,NPO,TP,1608	
C609	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C611	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C612	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C613	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C614	2203-000552	C-CERAMIC,CHIP	0.02nF,5%,50V,NPO,TP,1608	
C615	2203-000552	C-CERAMIC,CHIP	0.02nF,5%,50V,NPO,TP,1608	
C616	2402-001019	C-AL,SMD	2.2uF,20%,35V,GP,TP,3.3x3.3x5.	
C617	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
C619	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C620	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C621	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C623	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C624	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C625	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C628	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C630	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C631	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C809	2409-001046	C-ORGANIC	39UF,20%,16V,WT,TP,6.3X6 MM,-	
C810	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C813	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C821	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C822	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C824	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C825	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C826	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C827	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C828	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
C841	2409-001046	C-ORGANIC	39UF,20%,16V,WT,TP,6.3X6 MM,-	
C844	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C845	2409-001046	C-ORGANIC	39UF,20%,16V,WT,TP,6.3X6 MM,-	
C846	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,-	
C847	2409-001046	C-ORGANIC	39UF,20%,16V,WT,TP,6.3X6 MM,-	
C848	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C849	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C851	2409-001046	C-ORGANIC	39UF,20%,16V,WT,TP,6.3X6 MM,-	

Loc. No.	Code No.	Description	Specification	Remarks
C852	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C853	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C856	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C857	2409-001046	C-ORGANIC	39UF,20%,16V,WT,TP,6.3X6 MM,-	
C858	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C859	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C861	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C862	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C863	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C864	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C866	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C867	2409-001049	C-ORGANIC	47UF,20%,6.3V,FX,TP,5X5.9MM,-	
C868	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C870	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
C871	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C872	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C873	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C874	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C875	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C876	2402-001086	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	
C881	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C882	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C883	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C884	2409-001046	C-ORGANIC	39UF,20%,16V,WT,TP,6.3X6 MM,-	
C885	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C888	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,1608	
C889	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C890	2409-001076	C-ORGANIC	15UF,20%,16V,WT,TP,5X5.9MM,1.4	
C891	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C892	2203-001126	C-CERAMIC,CHIP	0.68nF,10%,50V,X7R,TP,1608	
C893	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C894	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C895	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C896	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C897	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C898	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C899	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C901	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C902	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C903	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C904	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C905	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C906	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C907	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C908	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C909	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C912	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C921	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C922	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	
C923	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	
C924	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NP0,TP,1608	
C9571	2203-000440	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C9572	2203-001077	C-CERAMIC,CHIP	0.056nF,5%,50V,NP0,TP,2012	
C9573	2203-001077	C-CERAMIC,CHIP	0.056nF,5%,50V,NP0,TP,2012	
C9574	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	

Loc. No.	Code No.	Description	Specification	Remarks
CA00	2203-001402	C-CERAMIC,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
CA01	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CA02	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CA03	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CA04	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CA05	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
CA06	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
CA07	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
CA08	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NPO,TP,1608	
CA09	2203-000626	C-CERAMIC,CHIP	0.022nF,5%,50V,NPO,TP,1608	
CA10	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CA14	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CA20	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
CA21	2203-000998	C-CERAMIC,CHIP	0.047nF,5%,50V,NPO,TP,1608	
CA22	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
CA23	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
CB01	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
CB10	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CB11	2203-000189	C-CERAMIC,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CG01	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
CIS	0202-001162	SOLDER-CREAM	RMA-20-21L,S63,-,SN63/PB36.6/AG0.4,FLUX9.5%	SNA
CN501	3711-000922	CONNECTOR-HEADER	BOX,4P,1R,1.25mm,SMD-A,SN	SNA
CN502	3711-004933	CONNECTOR-HEADER	BOX,3P,1R,1.25MM,SMD-A,SN,WHT	SNA
CN505	3711-005154	CONNECTOR-HEADER	BOX,21P,2R,1.25MM,SMD-A,AUF,BLK	SNA
CN575	3711-004130	CONNECTOR-HEADER	BOX,31P,2R,0.625mm,SMD-A,AUF	SNA
CN701	3711-000556	CONNECTOR-HEADER	BOX,12P,1R,1.25mm,SMD-A,SN	SNA
CN706_1	3711-004933	CONNECTOR-HEADER	BOX,3P,1R,1.25MM,SMD-A,SN,WHT	SNA
CN754	3711-002049	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SN	SNA
CN878	3711-002127	CONNECTOR-HEADER	BOX,8P,1R,1.25mm,SMD-A,SN	SNA
CN901	3711-003161	CONNECTOR-HEADER	BOX,20P,1R,1.25mm,ANGLE,SN	SNA
CNA1	3711-000012	CONNECTOR-HEADER	BOX,4P,1R,2.5mm,STRAIGHT,SN	
CNA2	3711-000999	CONNECTOR-HEADER	BOX,5P,1R,2.5mm,STRAIGHT,SN	
CR01	2203-000236	C-CERAMIC,CHIP	0.1nF,5%,50V,NPO,TP,1608	
D409	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D410	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D411	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D415	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D416	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D417	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D543	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D545	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D570	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D571	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D601	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D602	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D604	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D643	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D644	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D681	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D801	0404-001166	DIODE-SCHOTTKY	MBRM130LT3,30V,1000MA,DO-216AA,TP	
D802	0402-000553	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	
D803	0402-001098	DIODE-RECTIFIER	SK34,40V,3A,SMC,TP	
D804	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D875	0402-000553	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	
D880	0404-001166	DIODE-SCHOTTKY	MBRM130LT3,30V,1000MA,DO-216AA,TP	

Loc. No.	Code No.	Description	Specification	Remarks
IC601	1204-001912	IC-DECODER	SDA5550M,P-MQFP,100P,-,PLASTIC,3.3V,1.5W,0TO+70C,TR,-	
IC603	1103-000138	IC-EEPROM	24C16,2Kx8BIT,SOP,8P,150MIL,10	
IC604	1203-001212	IC-VOL. DETECTOR	7029,SOT-89,3P,-,PLASTIC,-,500	
IC620 SOCK	3704-000249	SOCKET-IC	32P,PLCC,SN,1.27mm	
IC621	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC622	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC623	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC624	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC625	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC626	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC627	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC628	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC629	2011-000651	R-NETWORK	10ohm,5%,63mW,L,CHIP,8P,TP	
IC641	2011-000515	R-NETWORK	4.7Kohm,5%,1/16W,L,CHIP,8P,TP	
IC642	2011-000515	R-NETWORK	4.7Kohm,5%,1/16W,L,CHIP,8P,TP	
IC681	1001-001109	IC-ANALOG SWITCH	FST3125M,BUS SWITCH & CMOS,SOIC,17P,150MIL,QUAD,7V,-40TO+85C,PLASTIC,-,4.0OHM,5	
IC801	1203-000404	IC-DC/DC CONVERTER	34063,SOP,8P,150MIL,PLASTIC,1.0/1.3V,-,0TO+70C,4.0MA,-,ST	
IC802	1203-001890	IC-VOLTAGE REGULATOR	3961,SOT223-5,5P,-,PLASTIC,2.5V,-,40to+125C,800mA,-,TR	
IC803	1203-001816	IC-POS.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	
IC804	1203-001448	IC-SWITCH VOL. REG.	2596,TO-263,5P,-,PLASTIC,4.750	
IC805	1203-001830	IC-SWITCH VOL. REG.	2676,TO-263,7P,-,PLASTIC,3.234/3.336V,-,40TO+125C,3A,-,TP	
IC806	1203-001890	IC-VOLTAGE REGULATOR	3961,SOT223-5,5P,-,PLASTIC,2.5V,-,40to+125C,800mA,-,TR	
IC807	1203-001448	IC-SWITCH VOL. REG.	2596,TO-263,5P,-,PLASTIC,4.750	
IC808	0505-001170	FET-SILICON	SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8	
IC810	1203-000404	IC-DC/DC CONVERTER	34063,SOP,8P,150MIL,PLASTIC,1.0/1.3V,-,0TO+70C,4.0MA,-,ST	
IC811	1203-001293	IC-POS.FIXED REG.	033,TO-252,3P,6.5MIL,PLASTIC,3	
IC901	1205-001740	IC-TRANSMITTER	DS90C385,1SSOP,56P,240MIL,PLASTIC,4V,1.63W,-10 TO +70C,ST,FPD LINK-85MHZ(LVDS)	
IC919	1204-001675	IC-SOUND PROCESSOR	MSP34516,QFP,80P,-,PLASTIC,9V,1000mW,0to+70C,TR,Multistandard Sound	
ICA2	1001-001109	IC-ANALOG SWITCH	FST3125M,BUS SWITCH & CMOS,SOIC,17P,150MIL,QUAD,7V,-40TO+85C,PLASTIC,-,4.0OHM,5	
ICA4	1206-000111	IC-TIMER	KA555D/T.R.SOP,8P,150MIL,-,18V	
L008	2703-000398	INDUCTOR-SMD	10uH,10%,3.2x2.5x2.2mm	
L201	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L202	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L203	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L204	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L206	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L207	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L208	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L209	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L540	2703-002327	INDUCTOR-SMD	3.9UH,55,3.2X2.5X2.2MM	
L541	2703-002327	INDUCTOR-SMD	3.9UH,55,3.2X2.5X2.2MM	
L555	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L611	2703-000398	INDUCTOR-SMD	10uH,10%,3.2x2.5x2.2mm	
L612	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L613	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L620	2703-001778	INDUCTOR-SMD	3.3UH,20%,3.2X2.5X2.2MM	
L805	BN27-00010A	COIL CHOKE	-,NK17NS,100UH,10%,-,0.78Y MAX,6A,DR5,8X4.5MM,59.5TS,6.0X5.2X4.5MM,1.8MM,1UEW 0.	
L806	BN27-00009A	COIL CHOKE	SMD 12X12X6,EOS,30UH,15%,-,0.128Y MAX,2A,DR10X5.0MM,18.5TS,12X12X6,1.8MM,1UEW 0.	
L807	BN27-20001A	COIL-CHOKE	-,53.0UH,20%,DR10*5,-,-,-,0.18ohm,-,-,-,TRAY	
L818	BN27-20001A	COIL-CHOKE	-,53.0UH,20%,DR10*5,-,-,-,0.18ohm,-,-,-,TRAY	
L830	BN27-00010A	COIL CHOKE	-,NK17NS,100UH,10%,-,0.78Y MAX,6A,DR5,8X4.5MM,59.5TS,6.0X5.2X4.5MM,1.8MM,1UEW 0.	
MP1.0	BN41-00201A	PCB MAIN	MB15SO,FR4,6L,175X181X1.23,MB15SO	
Q201	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
Q601	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
Q602	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	

Loc. No.	Code No.	Description	Specification	Remarks
Q808	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q812	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
QA01	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
QA02	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
QA03	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
QA04	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
QA05	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
QA07	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-23,TP,135-270	
R001	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R002	2007-000071	R-CHIP	22ohm,5%,1/16W,DA,TP,1608	
R003	2007-000071	R-CHIP	22ohm,5%,1/16W,DA,TP,1608	
R004	2007-000071	R-CHIP	22ohm,5%,1/16W,DA,TP,1608	
R005	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R006	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R007	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R008	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R009	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R015	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R016	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R017	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R024	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R025	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R026	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R027	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R028	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R038	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R061	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R062	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R063	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R064	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R065	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R107	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R109	2007-000512	R-CHIP	2.4Kohm,5%,1/16W,DA,TP,1608	
R111	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R112	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R114	2007-000086	R-CHIP	5.6Kohm,5%,1/16W,DA,TP,1608	
R127	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R128	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R129	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R199	2007-000097	R-CHIP	47Kohm,5%,1/16W,DA,TP,1608	
R202	2007-000113	R-CHIP	33ohm,5%,1/16W,DA,TP,1608	
R203	2007-000113	R-CHIP	33ohm,5%,1/16W,DA,TP,1608	
R204	2007-000113	R-CHIP	33ohm,5%,1/16W,DA,TP,1608	
R205	2007-000113	R-CHIP	33ohm,5%,1/16W,DA,TP,1608	
R206	2007-000113	R-CHIP	33ohm,5%,1/16W,DA,TP,1608	
R207	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R209	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R211	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R212	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R213	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R214	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R215	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R216	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R217	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R218	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R219	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R221	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R222	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R224	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R225	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R231	2007-000118	R-CHIP	390ohm,5%,1/16W,DA,TP,1608	
R232	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R233	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R234	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R236	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R238	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R239	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R241	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R242	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R243	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R244	2007-000239	R-CHIP	1.5Kohm,1%,1/16W,DA,TP,1608	
R248	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R249	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R293	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
R301	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R302	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R303	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R304	2007-000071	R-CHIP	22ohm,5%,1/16W,DA,TP,1608	
R305	2007-000109	R-CHIP	1Mohm,5%,1/16W,DA,TP,1608	
R309	2007-000109	R-CHIP	1Mohm,5%,1/16W,DA,TP,1608	
R312	2007-001010	R-CHIP	51Kohm,5%,1/16W,DA,TP,1608	
R314	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R315	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R316	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R317	2007-000109	R-CHIP	1Mohm,5%,1/16W,DA,TP,1608	
R318	2007-000616	R-CHIP	24Kohm,5%,1/16W,DA,TP,1608	
R321	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R322	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R323	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R324	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R325	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R326	2007-001164	R-CHIP	75ohm,1%,1/16W,DA,TP,1608	
R327	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R328	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R329	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R351	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R354	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R355	2007-000071	R-CHIP	22ohm,5%,1/16W,DA,TP,1608	
R356	2007-000082	R-CHIP	3.3Kohm,5%,1/16W,DA,TP,1608	
R357	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R358	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R359	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R360	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R361	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R362	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R367	2007-000071	R-CHIP	22ohm,5%,1/16W,DA,TP,1608	
R401	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R402	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R403	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R404	2007-000107	R-CHIP	470Kohm,5%,1/16W,DA,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R405	2007-000100	R-CHIP	68Kohm,5%,1/16W,DA,TP,1608	
R434	2007-000080	R-CHIP	2Kohm,5%,1/16W,DA,TP,1608	
R438	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R441	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R457	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R458	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R482	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R501	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R502	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R505	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R506	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R511	2007-000134	R-CHIP	33Kohm,5%,1/16W,DA,TP,1608	
R516	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R517	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R521	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R522	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R525	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R527	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R529	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R531	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R532	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R533	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R535	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R536	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R539	2007-000134	R-CHIP	33Kohm,5%,1/16W,DA,TP,1608	
R553	2007-000102	R-CHIP	100Kohm,5%,1/16W,DA,TP,1608	
R554	2007-000102	R-CHIP	100Kohm,5%,1/16W,DA,TP,1608	
R600	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R603	2007-000097	R-CHIP	47Kohm,5%,1/16W,DA,TP,1608	
R604	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R605	2007-000094	R-CHIP	22Kohm,5%,1/16W,DA,TP,1608	
R606	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
R607	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R608	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R609	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R611	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R612	2007-000239	R-CHIP	1.5Kohm,1%,1/16W,DA,TP,1608	
R613	2007-000239	R-CHIP	1.5Kohm,1%,1/16W,DA,TP,1608	
R615	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R616	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R619	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
R621	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R622	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R6227	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R6228	2007-000071	R-CHIP	22ohm,5%,1/16W,DA,TP,1608	
R623	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R6231	2007-000113	R-CHIP	33ohm,5%,1/16W,DA,TP,1608	
R6232	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R6233	2007-000092	R-CHIP	15Kohm,5%,1/16W,DA,TP,1608	
R6234	2007-000092	R-CHIP	15Kohm,5%,1/16W,DA,TP,1608	
R6235	2007-002425	R-CHIP	10HM,5%,1/16W,DA,TP,1608	
R6236	2007-002425	R-CHIP	10HM,5%,1/16W,DA,TP,1608	
R6237	2007-002425	R-CHIP	10HM,5%,1/16W,DA,TP,1608	
R624	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R625	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R627	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R628	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R629	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R631	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R632	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R633	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R634	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R635	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R636	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
R637	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R639	2007-000075	R-CHIP	220ohm,5%,1/16W,DA,TP,1608	
R643	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R644	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R645	2007-000120	R-CHIP	680ohm,5%,1/16W,DA,TP,1608	
R646	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R648	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R651	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R652	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R653	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R662	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R663	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R664	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R667	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R668	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
R674	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R675	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R682	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R692	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R693	2007-000309	R-CHIP	10ohm,5%,1/16W,DA,TP,1608	
R811	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R821	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R822	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R823	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R824	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R841	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R842	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
R873	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
R874	2007-000102	R-CHIP	100Kohm,5%,1/16W,DA,TP,1608	
R890	2007-000219	R-CHIP	1.2Kohm,1%,1/16W,DA,TP,1608	
R891	2007-000701	R-CHIP	3.6Kohm,1%,1/16W,DA,TP,1608	
R892	2007-008433	R-CHIP	0.33OHM,1%,1W,DA,TP,6432	
R893	2007-008433	R-CHIP	0.33OHM,1%,1W,DA,TP,6432	
R894	2007-000219	R-CHIP	1.2Kohm,1%,1/16W,DA,TP,1608	
R895	2007-000669	R-CHIP	2Kohm,1%,1/16W,DA,TP,1608	
R902	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
R903	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R904	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R905	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R907	2007-000072	R-CHIP	47ohm,5%,1/16W,DA,TP,1608	
R908	2007-000116	R-CHIP	120ohm,5%,1/16W,DA,TP,1608	
RA00	2007-001167	R-CHIP	75ohm,5%,1/16W,DA,TP,1608	
RA01	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA02	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA03	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA04	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
RA05	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
RA06	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
RA07	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA08	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA09	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA10	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA11	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA12	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA13	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA14	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA15	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA16	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA17	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA18	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
RA19	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA20	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA21	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
RA22	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
RA24	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA25	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA26	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA27	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA28	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA29	2007-000109	R-CHIP	1Mohm,5%,1/16W,DA,TP,1608	
RA30	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
RA301	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA302	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA303	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA304	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA305	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA306	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA31	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA32	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
RA33	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
RA34	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
RA35	2007-000084	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1608	
RA351	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA352	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA353	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA354	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA355	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA356	2011-000002	R-NETWORK	22ohm,5%,63mW,L,CHIP,8P,TP	
RA36	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
RA37	2007-000070	R-CHIP	0ohm,5%,1/16W,DA,TP,1608	
RA38	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA39	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
RA40	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
RA41	2007-000077	R-CHIP	470ohm,5%,1/16W,DA,TP,1608	
RA45	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA46	2007-000075	R-CHIP	220ohm,5%,1/16W,DA,TP,1608	
RA47	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA48	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA49	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA50	2007-000052	R-CHIP	10Kohm,1%,1/16W,DA,TP,1608	
RA51	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
RA52	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA53	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA54	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA55	2007-000090	R-CHIP	10KOHM,5%,1/16W,DA,TP,1608	
RA56	2007-000074	R-CHIP	100ohm,5%,1/16W,DA,TP,1608	
RA57	2007-000078	R-CHIP	1Kohm,5%,1/16W,DA,TP,1608	
X201	2801-003667	CRYSTAL-SMD	14.3182MHZ,50PPM,28-AAN,16,500HM,TP	
X401	2801-004004	CRYSTAL-SMD	20.25MHZ,20ppm,28-AAN,13pF,25ohm,TP	
X511	2801-003843	CRYSTAL-SMD	18.432MHZ,30ppm,28-AAN,20pF,50ohm,TP	
X601	2801-004117	CRYSTAL-SMD	6MHZ,30PPM,28-ABX,20PF,1500HM,TP	
XA01	2801-003700	CRYSTAL-SMD	8MHZ,30ppm,28-AAN,20pF,80ohm,T	
-	BN97-00115A	ASSY MICOM	MB15SO	
IC620	1102-001129	IC-EPROM	M27W401,512KX8BIT,PLCC,32P,11.35X13.89MM,80NS,3.3V,10%,PLASTIC,-40TO+85C,-,CMOS,	
CIS	BN46-00012Y	S/W MICOM	MB15SO	SNA
-	BN90-00318A	ASSY STAND	MB15NO	SNA

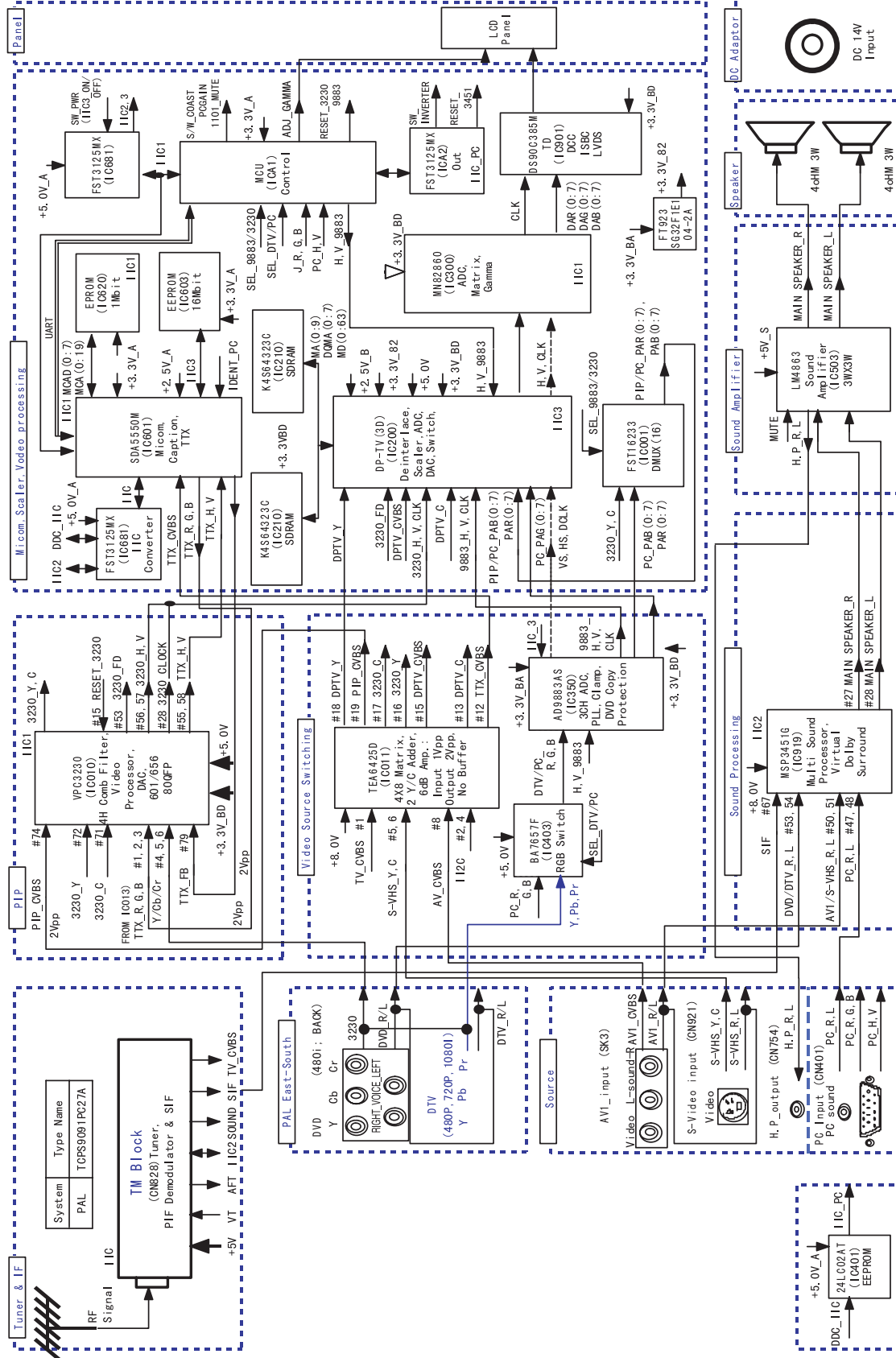
7-2 Others

Loc. No.	Code No.	Description	Specification	Remarks
CIS	BN90-00257A	ASSY STAND	RB15,-,ABD HB,-,-,-,-	
CIS	6001-001612	SCREW-MACHINE	CH,+ ,M2,L3.5,ZPC(BLK),SWRCH18A,FP,-	
CIS	6003-001347	SCREW-TAPTITE	FH,+ ,B,M4,L16,ZPC(YEL),SWRCH18A,-	SNA
CIS	BN61-00158A	BRACKET-STAND	MINERVA,STS 420J2,T2.0	SNA
CIS	BN63-00176A	COVER-STAND	RB15,ABS,-,-,-,HB,-,BK08,HB,1.5	SNA
CIS	BN73-60002A	RUBBER-FOOT	CY15PO,SPONGE,-,-,-,BL,-,-,-,-	SNA
CIS	BN90-00258A	ASSY HINGE	RB15,-,AL,-,-,-,-,DIE-CASTING	SNA
-	BN90-00343A	ASSY COVER FRONT	MB15SO	
CIS	BN90-00255E	ASSY COVER FRONT	MB15UO,PAL,MULTI,ABS HB,SVM-1207	
CIS	6003-000259	SCREW-TAPTITE	BH,+ ,B,M3,L8,ZPC(YEL),SWRCH18A	SNA
CIS	BN59-00282A	SPEAKER SYSTEM	MINERVA,MINERVA-R,3W,46X46X20,3W 40HM, WIRE:395MM	
CIS	BN59-00283A	SPEAKER SYSTEM	MINERVA,MINERVA-L,3W,46X46X20,3W 40HM, WIRE:110MM	
CIS	BN59-00287A	BOARD-FUNCTION ASS'Y	MB15UO,CT5000-0610,FUNCTION ASS'Y	SNA
CIS	BN59-00288A	BOARD-PHONE JACK ASS'Y	MB15UO,CT5000-0620,PHONE-JACK ASS'Y	SNA
CIS	BN61-00082A	BRACKET-SPRING-STAND	RB15,SUS,TO.5,-,-,-,-	SNA
CIS	BN63-00172A	COVER-FRONT	RB15,ABS,-,-,-,HB,-,BK08,SILVER SPRAY	SNA
CIS	BN63-00175A	COVER-LENS	RB15,ABS,-,-,-,HB,-,JV16,NONE,1.5	SNA
CIS	BN64-00031A	BADGE-BRAND	RB15AS,AL,T1.4,6.3,40.1,-,SILIVER,-	SNA
CIS	BN64-00056A	KNOB-POWER	RB15,PC,-,-,-,HB,CLEAR,-,NI-CR	
CIS	BN64-00057A	KNOB-FUNCTION	RB15,ABS+PC,-,-,-,HB,BK08,-,NONE,1.5	
CIS	BN67-00048A	LENS-IR	RB15,ACRYL,CLEAR,-,1.5,-,HALF-MIRROR	
CIS	BN67-00054A	LENS-LED	RB15,ACRYL,CLEAR,1	
-	BN90-00344A	ASSY COVER REAR	MB15SO	
C/F+C/R	6003-001246	SCREW-TAPTITE	FH,+ ,B,M3,L10,NI PLT,SWRCH18A	SNA
CIS	BN96-00038B	ASSY COVER P-REAR	MB15UO,USA,ABS HB,SVM-1207	
CIS	BN61-00092A	BRACKET-PIN	RB15,CU+ZN,TO.23,35MM	SNA
CIS	BN63-00173A	COVER-REAR	RB15,ABS,-,-,-,HB,-,BK08,SILVER SPRAY	SNA
CIS	BN63-00199A	COVER-HANDLE	RB15,ABS,HB,BK08,HB,1.5	SNA
-	BN91-00220A	ASSY LCD	ES15AS	
CIS	BN07-00053A	LCD	LTM150XH-L06,C2B,6BIT_FRC,331.6*254.76*12.5,16.19M,-,0.297*0.297,-,AMLCD/1 LV	
-	BN91-00310F	ASSY MISC	MB15	
CIS	BN44-00063A	ADAPTOR	AD-4914N,EOS17,100-240VAC,47 - 63 HZ,+14VDC,3.5A,-,49W,-,0 TO +40 C,120*63*31,SA	SNA
-	BN91-00426A	ASSY CHASSIS	MB15SO	
-	BN91-00427A	ASSY SHIELD	MB15SO	SNA
SH/PCB+C/F	6003-000117	SCREW-TAPTITE	BH,+ ,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PCB+IN/PCB	6003-000117	SCREW-TAPTITE	BH,+ ,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PCB+M/PCB	6003-000117	SCREW-TAPTITE	BH,+ ,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
CIS	BN02-00010A	TAPE ETC	MINERVA,AL-TAPE,0.07MM,60MM,80MM,SILVER,DK-100-60-80	SNA
CIS	BN59-00317A	BOARD-INPUT ASS'Y	MB15SO,INPUT ASS'Y	
CIS	BN63-00440A	FELT-SPACER	MB15KO,FELT,TO.35,10,71.5,BLK	SNA
CIS	BN63-00440B	FELT-SPACER	MB15KO,FELT,TO.35,10,187,BLK	SNA
CIS	BN68-00195V	LABEL-MARK	SEC(EA) PANNEL,ART-PAPER 100G,-,30,10,-,BLK,WHT,-,-	SNA
CIS	BN90-00256A	ASSY SHIELD-PCB	RB15,-,SECC TO.5,-,-,-,-	SNA
CIS	BN63-00177A	SHIELD-PCB	RB15,SECC,TO.5,-,-,-,-	
CIS	BN71-00022A	EARTH PLATE	RB15AS,SUS,TO.15	SNA
-	BN92-00477A	ASSY P/MATERIAL	MB15KO	SNA

Loc. No.	Code No.	Description	Specification	Remarks
CIS	0203-001100	TAPE-OPP MASKING	OPP/W75/CLR,TO.05,W75,L800000,CLR	SNA
CIS	BH69-00256C	PAD-PACKING-EDGE	MV940,B400,W200,L2030,-,-,YEL,-,-	SNA
CIS	BH69-00260A	BAG AIR	DP17L,PE,0.2,1800,1000,NATURAL,-	SNA
CIS	BH69-30002C	BAG-PE	LDPE,TO.05,W2400,NO_PRINT	SNA
CIS	BH69-30348C	BAG-PE	HDPE,TO.02,W350*L430,Y,-,CGB51	SNA
CIS	BH69-30355E	BAG-PE/N	NK15,PE FOAM,0.5,650,650,NTR	SNA
CIS	BH69-30360A	BAG-AIR	HDPE,TO.2,W1000*L1800,N,-,ALL	SNA
CIS	BH69-40380A	PACKING-PAD	DW-2,500X2200X200,-,CGK5527	SNA
CIS	BN69-00274A	CUSHION	RB15,EPS,-,-,-,-,-,M50	SNA
CIS	BN69-00293F	PALLET-PACKING	MB15,STEEL,1290,1080,100	SNA
-	BN92-00483A	ASSY BOX	MB15SO	SNA
CIS	BH68-00329A	LABEL BAR CODE	ALL,MPrII,DOM,EXPORT,ART-PAPER 90G,-,-,-,-,-,WHT,-,-	SNA
CIS	BH75-10529A	UNIT-HANDLE PACKING	LXA410TLMU,PE,-,WHITE,-	SNA
CIS	BN72-60001A	LEVER TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
CIS	BN72-60002A	LEVER BOTTOM	LSD210TL,PE-LD,WHITE,TFT-LCD	SNA
CIS	BN69-00341F	BOX	LS15S13C,OFFSET,AJU,CB-SW4,YEL,A-1,L523*W415*H90	
-	BN92-00484A	ASSY LABEL	MB15SO	SNA
CIS	BN68-00267B	LABEL RATING	MB15EO,EDC,PE,TO.05,65,79,PE NATURE	
-	BN92-00485A	ASSY ACCESSORY	MB15SO	SNA

Memo

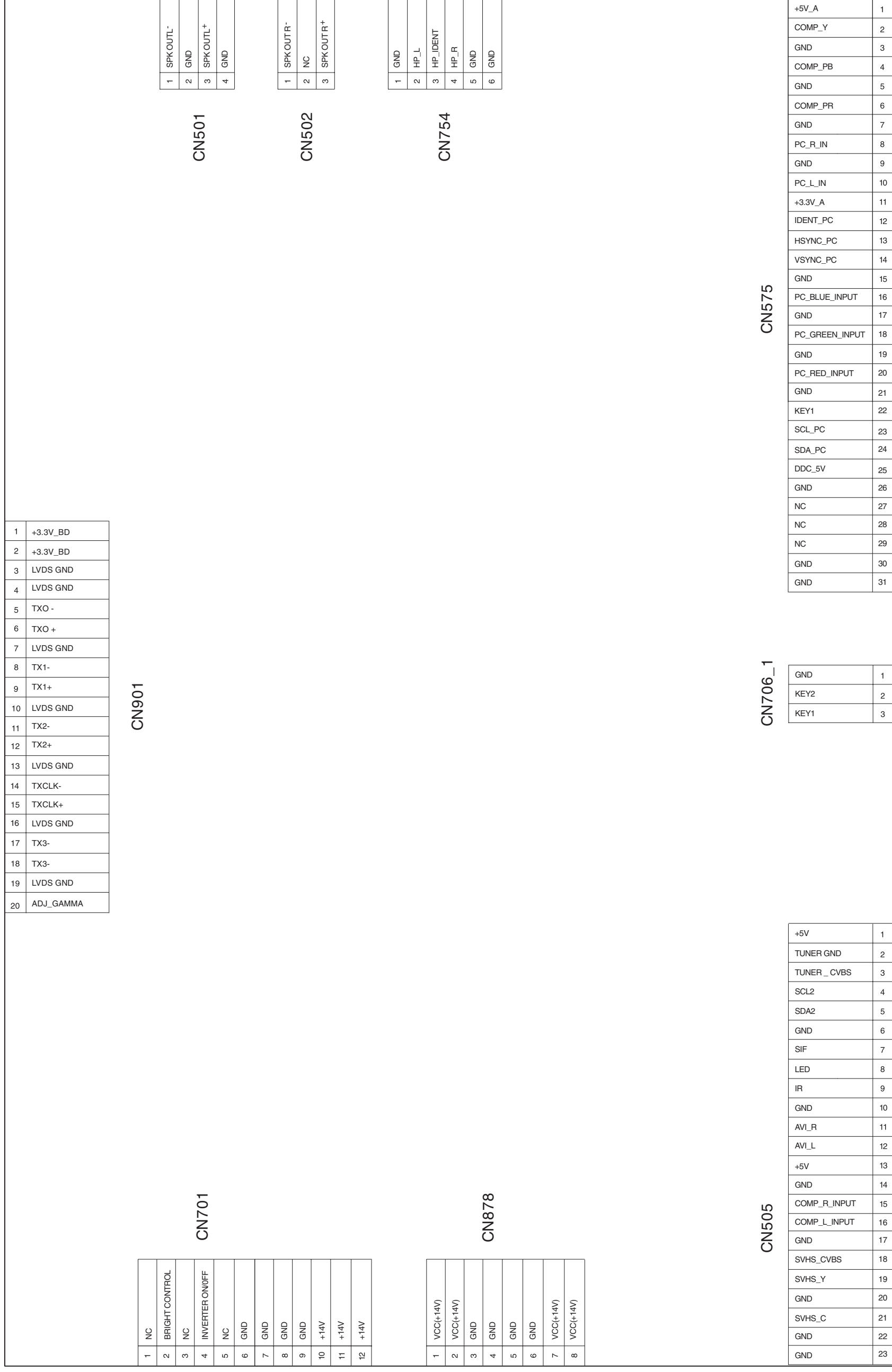
8 Block Diagram



Memo

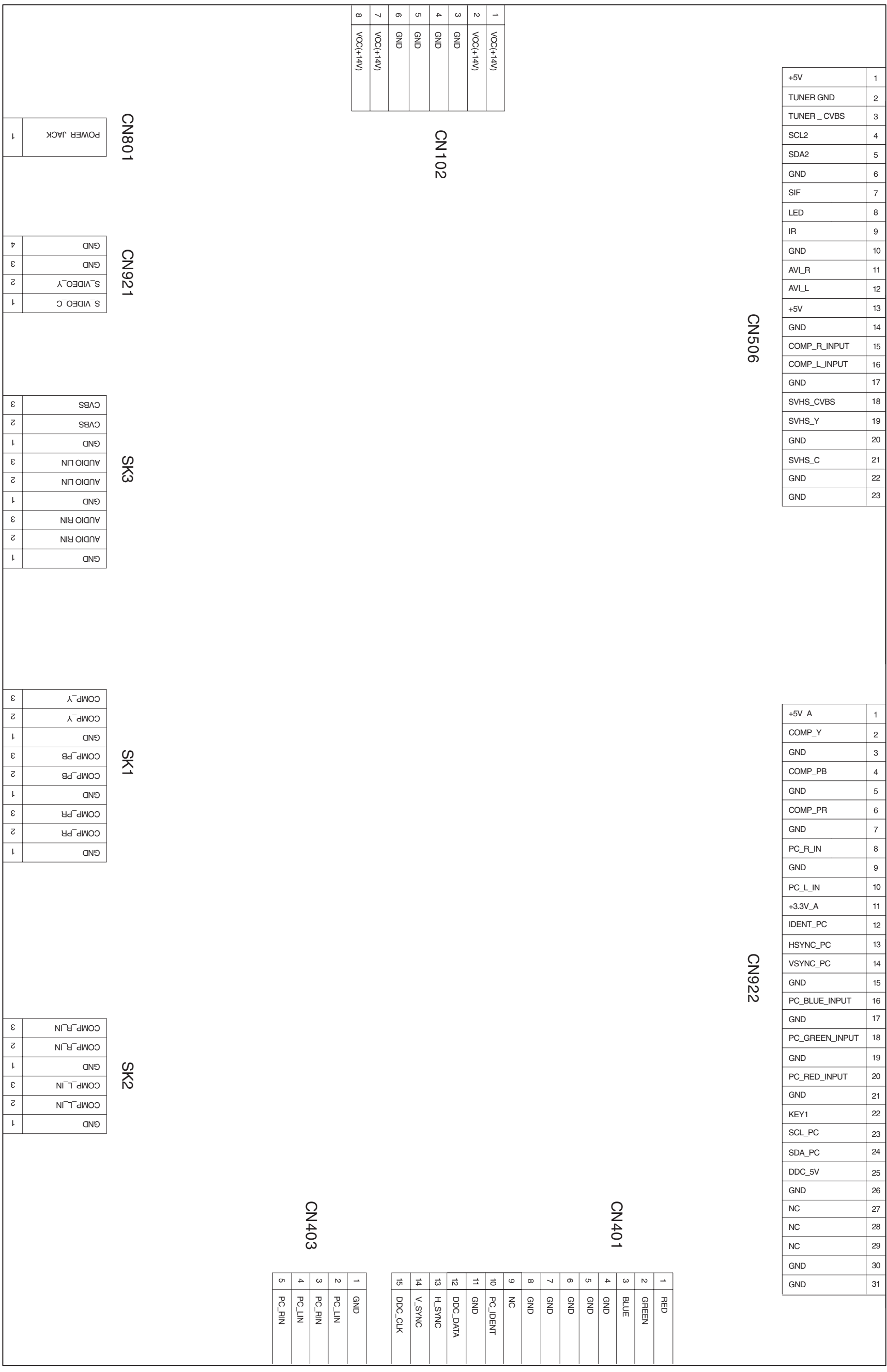
9 Wiring Diagram

9-1 Main Diagram



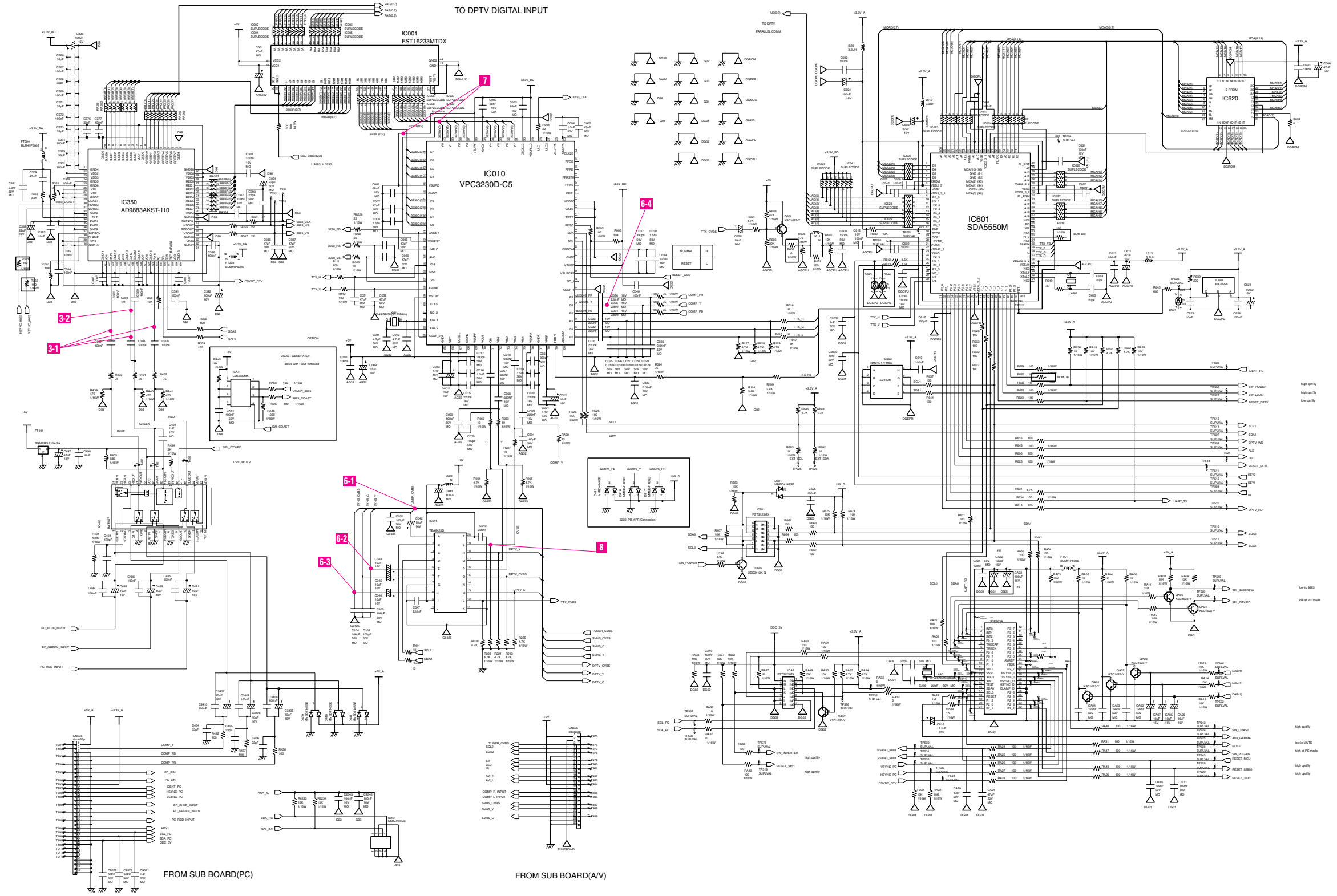
9-2 Input Diagram

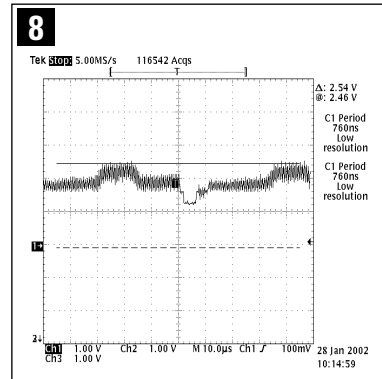
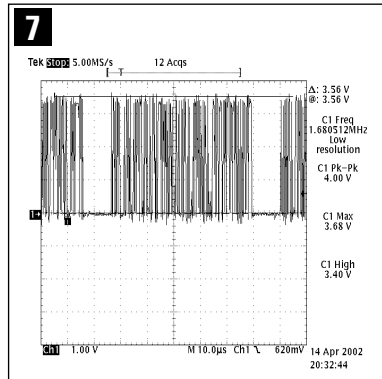
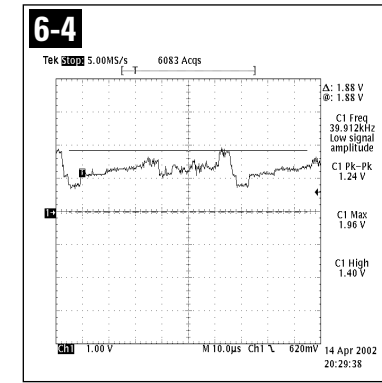
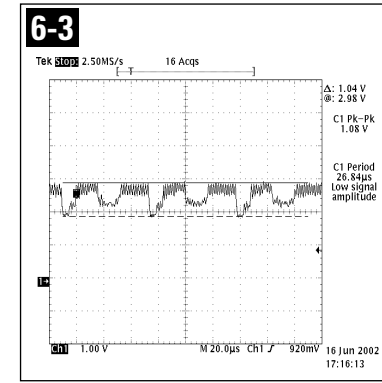
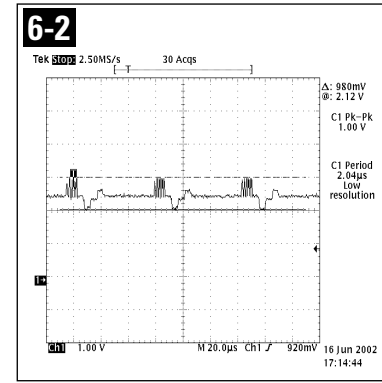
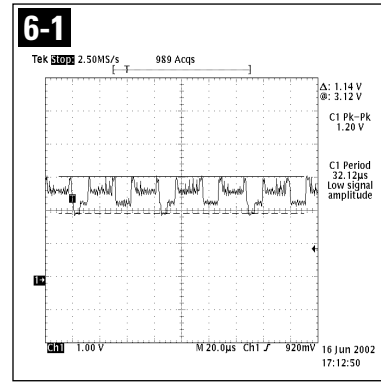
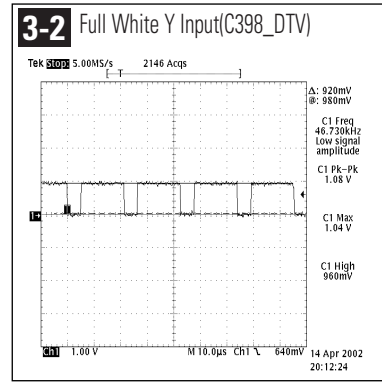
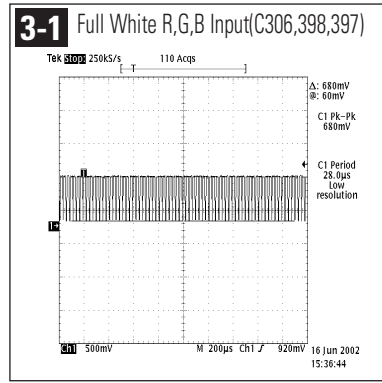
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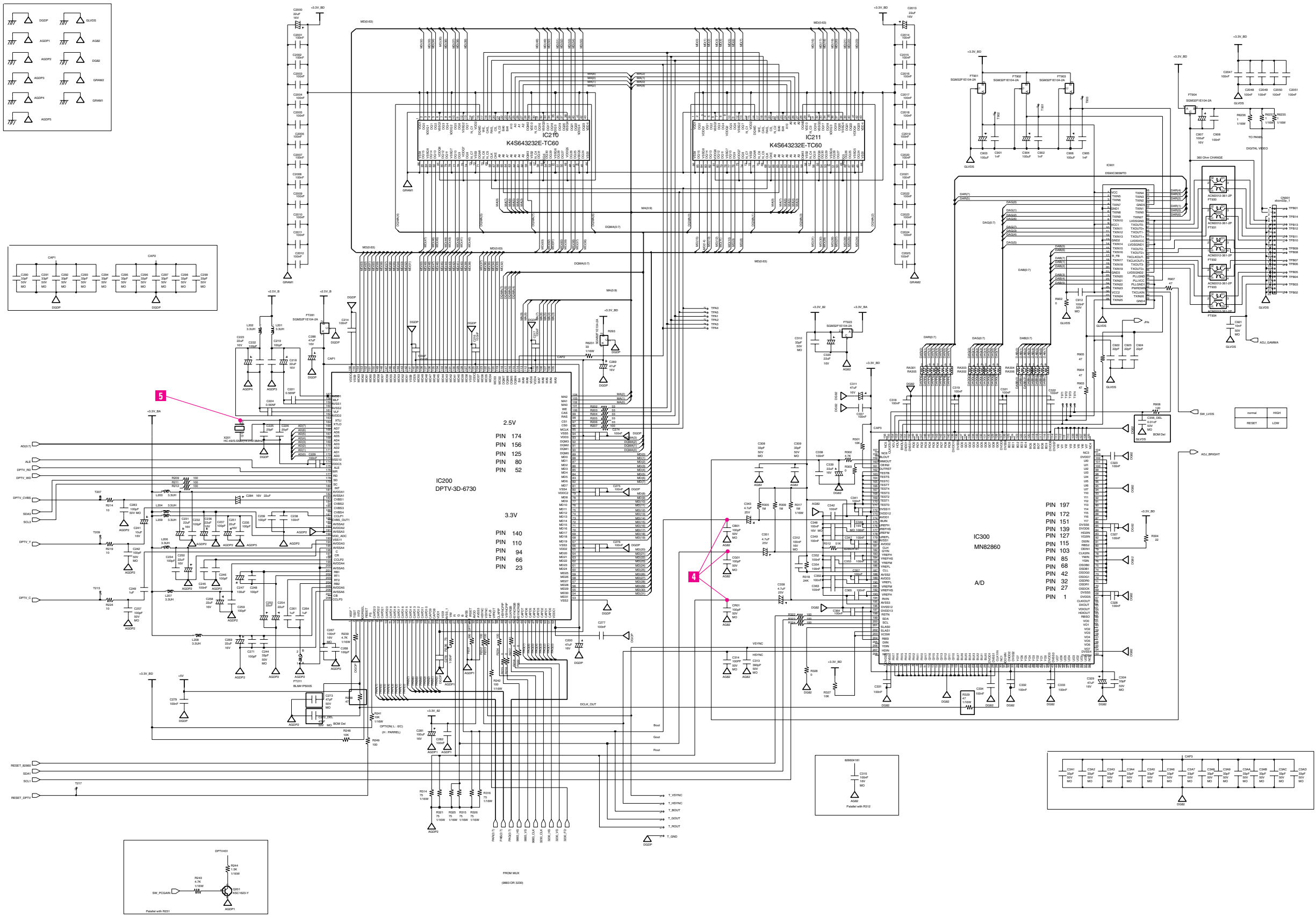
10 Schematic Diagrams

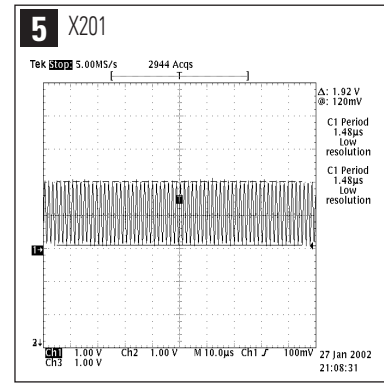
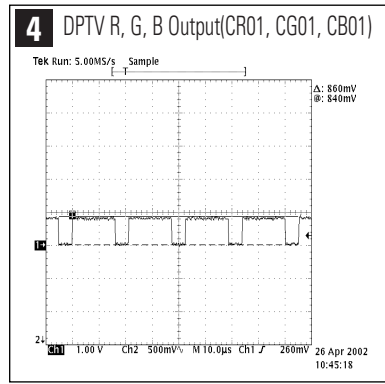
10-1 CPU Block & Signal Processing Part Schematic Diagram



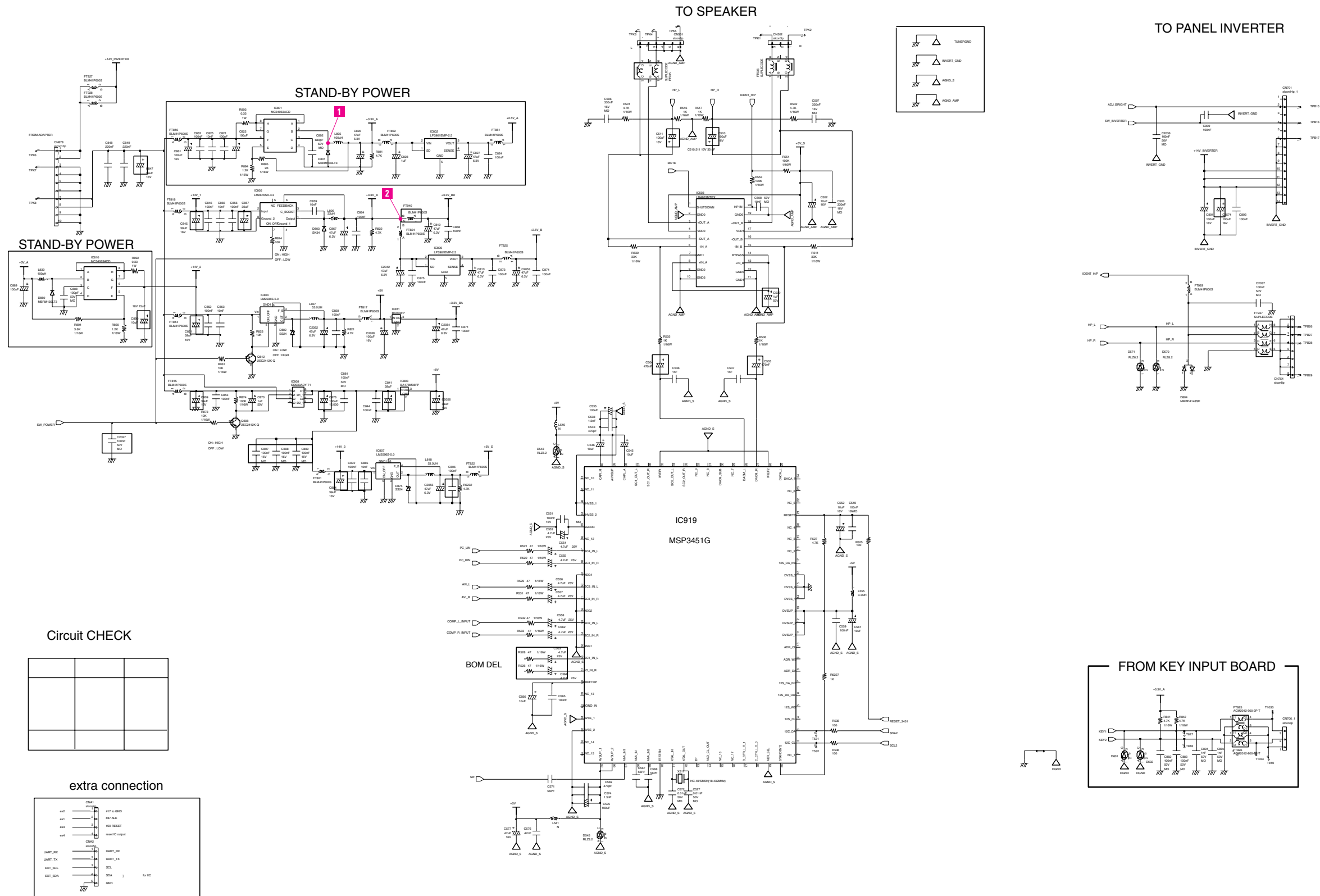


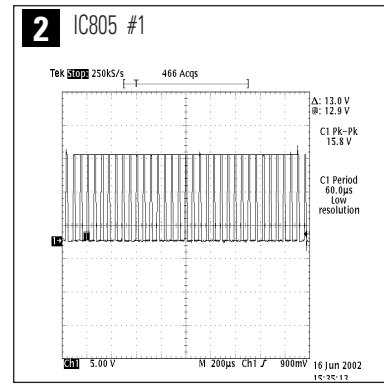
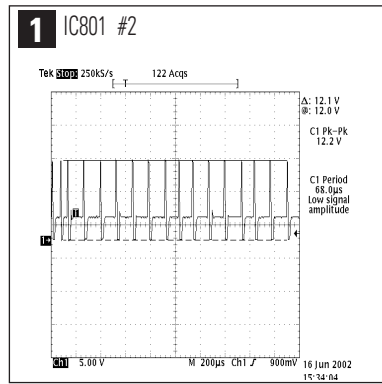
10-2 Scaler & Digital Output Part Schematic Diagram





10-3 DC Power Input, Sound, Tuner, ETC Part Schematic Diagram







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