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Group Delay

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Hewlett-Packard, Mtn. View

As a microwave technician involved in the repair and calibration of Hewlett-Packard's microwave test equipment, there have been many occasions when customers touring HP's repair center have asked me, "What does that instrument do?" Their look of curiosity turns to one of confusion when I respond, "It measures IF flatness, power, and group delay." We are talking about an HP 3710A or 3790A Microwave Link Analyzer System.

But this article is not about the MLA, it's about one function of the MLA and that's measure group delay. And what is group delay? It is synonymous with envelope delay, phase delay, or differential phase. Basically, they all mean the same thing. Some may argue that there are differences, but they are minimal. Most engineering texts refer to group delay with a lot of mathematical formulas. The IEEE Dictionary refers to group delay as "the derivative of radian phase with respect to radian frequency, $d\phi/dw$. It is equal to the phase delay for an ideal non-dispersive delay device, but may differ greatly in actual devices where there is ripple in the phase vs. frequency characteristic."

The Telecommunication Transmission Handbook by Roger L. Freeman defines group delay as envelope delay distortion and goes on to say that it's the derivative of radian phase characteristics with respect to radian frequency characteristics. And, since group delay is defined as the incremental change in phase caused by an incremental change in angular frequency, where the increment approaches zero in both cases, group delay is expressed as

$$GD = \frac{d\phi}{df}$$

where d indicates the derivative of; ϕ is the angular phase (radians), and f is the angular frequency (radians/sec.).

$d\phi$ and df can be further defined as

$$\frac{d\phi}{df} = \lim_{\Delta 0} \frac{\Delta\phi}{\Delta f}$$

which means that $\Delta\phi$ (change in phase) and $\Delta\phi$ (change in frequency) must approach zero. By definition, the amount of change in phase and frequency as shown in Figure 1 must be infinitely small (approaching zero) for it to be group delay.

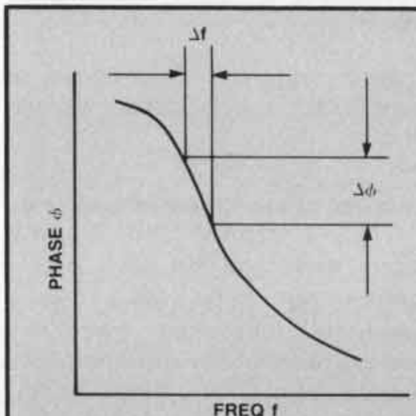

Figure 1. Phase vs. frequency

Actually, group delay is a theoretical concept and in practice cannot be measured at all. What is actually measured, referring back to the IEEE definition, is differential (radian) phase and differential (radian) frequency which, if measured correctly, can be assumed to approximate group delay. It is the variations in delay at different frequencies that causes the problems and is referred to as group delay distortion.

What is Delay Distortion?

Electromagnetic waves travel 186,000 miles per second in free space. Electrical signals, however, do not travel this fast through communications channels. In fact, signals may travel over certain types of circuits as slowly as 15,000 miles per second, and will rarely travel faster than about 100,000 miles per second over a microwave radio path. These lower velocities result from the nature of the communications equipment or the transmission path.

A telephone line behaves like a low pass filter, particularly if inductive loading is used to reduce attenuation. Multiplex systems use very sharp filters to separate one channel from another, and the tuned circuits in a radio receiver serve the same purpose. All these filters and filter-like elements introduce delay.

The slowing down of a signal in its passage through a communications channel is of little importance. Delay becomes a problem only when it interferes with the ability of the receiver to understand the message. In the case of speech, delay distortion causes little interference since the ear is relatively insensitive to phase variations. Facsimile, telegraph, and data signals, however, are quite vulnerable to delay distortion.

Usually, only relative delay — the maximum range or difference in delay values in a channel — is of importance, since only the delay *difference* causes distortion in the received signal. Absolute delay — the total delay experienced by signal elements — is usually not important except where signals, or parts of a signal, are transmitted from one point to another over different routes and must arrive at the same time.

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For example, if two tones, such as 1200 and 2200 cycles per second, are used to transmit binary data (shifting from one frequency to the other), it is important that these two tones experience approximately the same transmission delay in going from one end of the circuit to the other. If the data is being transmitted at 1000 bits per second, each bit will be one millisecond long. If these transmissions consist of alternate 1's and 0's, the signal will be alternately shifting between 1200 and 2200 cps. The transmission propagation time for those two tones between the two ends of a given circuit can vary considerably. For example, 60 miles of loaded telephone cable may introduce a delay to the 2200 cycle tone of 6.1 milliseconds as compared to 5.1 milliseconds for the 1200 cycle tone, a difference of 1 millisecond. If the 2200 cycle tone is transmitted first followed by the 1200 cycle tone (each transmitted for 1 millisecond), it can be seen that they will both be received at the same time, rather than one following the other. In 120 miles, they would be received in the reverse order!

Delay Distortion At Higher Frequencies

In high speed data transmission, the problem of delay distortion becomes more serious and troublesome as the transmission rate increases. Data bits usually originate as rectangular-shaped pulses which are used to modulate a carrier at a particular keying rate for transmission over a communications circuit. The pulses resulting from this modulation process are composed of many frequencies whose amplitudes and phases have a fixed relationship in time. The energy of the fundamental and harmonic frequencies are vectorially added together to form the envelope of the composite signal. If the pulses are processed through circuit components such as band-pass filters or amplifiers, which because of reactive (imaginary) components within the circuitry do not offer equal transit time to all frequencies, the signal shape (envelope) is seriously distorted. As shown in Figure 2, if the third harmonic is delayed by one-half cycle relative to the fundamental, the pulse shape is severely distorted.

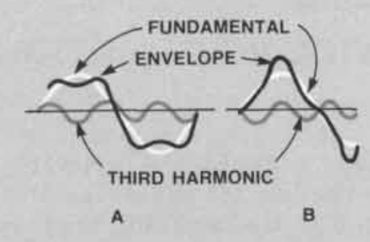


Figure 2. As shown in diagram A, the normal vectorial addition of the energy at the fundamental and third harmonic frequencies produces a slightly rectangular-shaped pulse. If the third harmonic is delayed by one-half cycle relative to the fundamental, as shown in diagram B, the pulse envelope becomes seriously distorted.

To demonstrate the effect shown in Figure 2, try the following experiment:

- —Connect two audio oscillators (e.g., HP Model 3325A's) to the A and B inputs of an oscilloscope.
- —Set A for *x* frequency at *y* amplitude (the exact frequency and amplitude are unimportant). Set oscillator B for 3 times the frequency and one-third the amplitude.
- —Set up the oscillators so that they are phase locked together with zero phase shift between them (Figure 2A).
- —Now shift the third harmonic oscillator so that it is delayed by one-half cycle (180 degrees).
- —If the two composites shown in Figure 2B were fed into a speaker, you would note a drastic difference in sound even though the frequencies haven't changed.

Phase Shift

The phase and frequency of a signal are, by definition, inseparable. In fact, a good definition of frequency is the rate of change of phase with respect to time, or $d\phi/dt$, where ϕ is the phase shift (usually in radians; π radians equal 180°, 2π radians equal one cycle) and t is time in seconds. Thus, it follows that the more the phase of a signal is shifted in passing through a channel, the more time is required for it to get through the channel. Where phase shift is known, the phase delay of a single frequency is

$$\text{delay (time)} = \frac{\text{phase shift (radians)}}{\text{frequency (radians per sec.)}}$$

This is usually expressed as

$$t = \frac{\phi}{\omega}$$

It is important to note that in practical systems, phase delay, as expressed above, is applicable *only to single, steady-state frequencies*.

In an ideal system, phase shift would be linear and all signals passing through such a system would be delayed equal amounts, regardless of their frequency. Unfortunately, phase shift in a communication channel is never linear. In a high quality system, the overall phase shift characteristic may look like that shown in Figure 3.

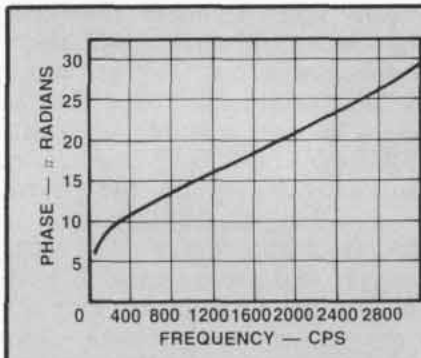


Figure 3. Phase shift characteristic of a high-quality 100-mile carrier telephone circuit.

Measuring Group and Envelope Delay

Whenever a complex signal (such as a modulated or keyed carrier frequency) is transmitted, the relationship between frequency and phase shift described above no longer holds true unless the system is perfectly distortion-free. Since phase shift is always non-linear in actual systems, some of the component frequencies undergo more phase shift than other frequency components.

For simplicity, assume that the complex signal consists of only two component frequencies. Added together, the two frequencies form a beat-frequency or modulation envelope. Because of non-linear phase shift, the two component frequencies and modulation envelope travel at different velocities through the channel with the relationship between them constantly changing. If phase shift were linear, all the frequencies would travel at the same velocity; and there would be no displacement of one frequency with respect to the other and no independent delay of the modulation envelope or envelope delay.

The more non-linear the phase shift, the greater the envelope delay. In other words, the greater the rate of change of phase shift, the more envelope delay will result.

Since virtually all forms of electrical communication use signals which require a band of frequencies for successful transmission, both envelope and group delay are the forms of delay of greatest general importance. Hewlett-Packard measures relative delay (and other parameters) in microwave radio applications with the HP 3710A/3790A Microwave Link Analyzer System. Audio data line delay distortion measurements to CCITT standards are performed by the 3770A/3770B Analyzers.

Figure 4 shows the basic principal used in making group delay measurements with the 3710A/3790A MLA. A frequency range is selected and the MLA sweeps that range with its transmitter. Time required (delay) for increments of the swept signal to reach the receiver is measured with the composite of all increments forming the group delay picture displayed on the CRT.

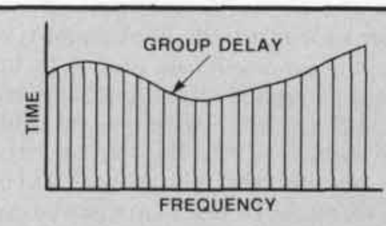


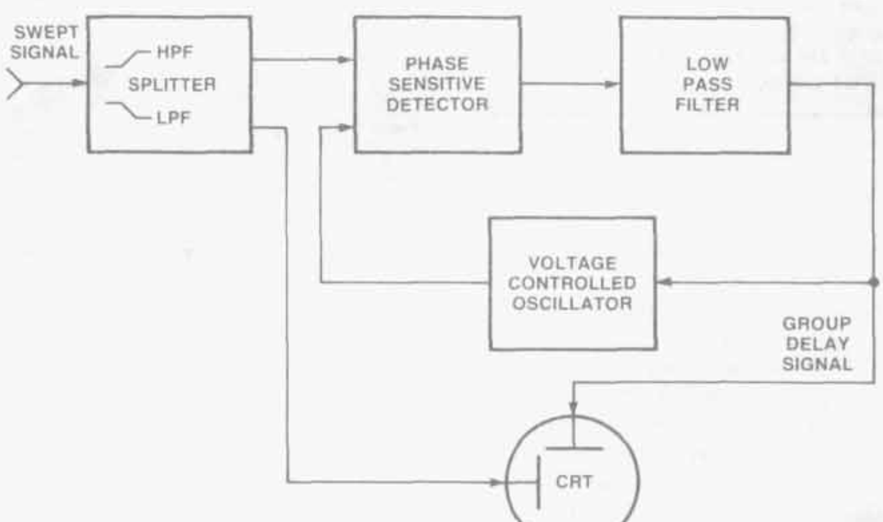
Figure 4. 3710A/3790A MLA performing a group delay measurement. The MLA uses a sweep frequency technique where the present frequency increment is measured and compared to the previous increment.

Group Delay and the Phase Lock Loop

The method used in the HP Microwave Link Analyzer (MLA) to measure group delay distortion is a special application of a phase lock loop as described in a previous issue of Bench Briefs (October 1978).

Generally speaking, a phase lock loop (PLL) is used to produce an accurate signal (or some multiple) from a stable reference. In the case of the MLA, however, the object is to measure group delay distortion. As the main article pointed out, group delay distortion is merely fluctuations in phase per frequency. And since the phase and frequency of a signal are, by definition, inseparable, it follows that if we plot the small changes in phase that occur due to absolute delay, we should be able to convert that to group delay distortion.

As shown in the accompanying figure, the swept signal is applied to the PLL as the reference signal. An internal voltage controlled oscillator is phase locked to the incoming signal, and it is the PLL error voltage that is the detected phase error or group delay signal. The swept signal is applied to the horizontal plates, and the group delay signal is applied to the vertical plates of a CRT. The key to the group delay detector is a special low pass filter designed to pass only frequencies lower than 10 Hz. If frequencies higher than 10 Hz were allowed to pass through, the error voltage would completely correct all phase fluctuations so rapidly it would appear there was no group delay distortion at all.



Complete Group Delay Detector

Figure 5 shows the basic principal used in making envelope delay measurements with the 3770A/B Analyzers. The transmitter part of the instrument generates a carrier signal that is alternately modulated with a reference signal and then a test signal. The test signal frequency starts out at the lowest end of the frequency range the instrument is capable of transmitting and steps up to the high end start, stop and reference signals are switch-selectable. For example, 300 Hz to 3.4 kHz could be the test range, and 1kHz the reference. Delay is measured by comparing the delay of the envelopes recovered at each of the various test frequencies to the delay of the reference signal.

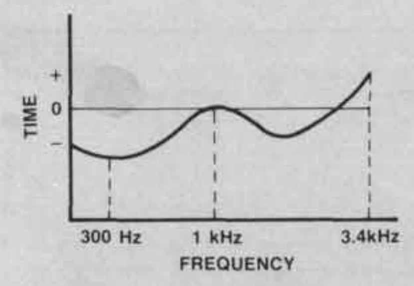


Figure 5. 3770A/B Analyzer performing an envelope delay measurement. A carrier signal is alternately modulated with a reference signal and then a swept series of test signals. Each separate test signal is compared back to the reference signal. The relative group delay of the channel at the two frequencies is measured by comparing the delay of the envelope recovered during the measuring period with that recovered during the reference period.

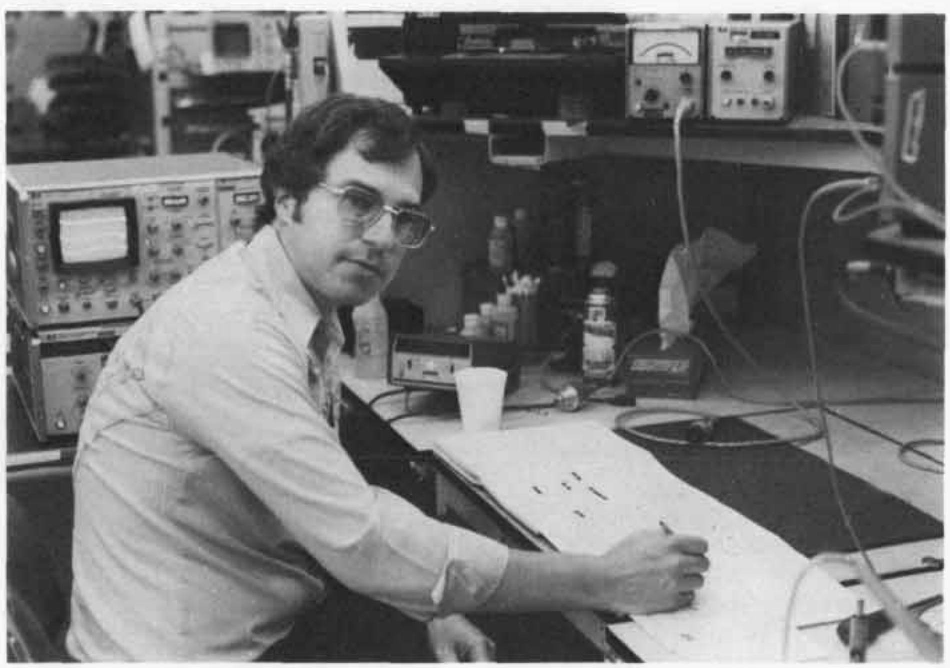
Delay Compensation Networks

Where amplitude response of a circuit is unsatisfactory, a filter is used to introduce a controlled amount of loss at certain frequencies to obtain the desired performance. In a carrier system, the channel bandpass filters which isolate individual channels from each other are the principal sources of delay distortion. These filters should have uniform amplitude response within a desired band of frequencies, but must exhibit a very rapid attenuation of all frequencies outside the desired band. Unfortunately, such rapid change in the attenuation characteristic of a filter is also accompanied by rapid changes in the phase shift.

In the case of excessive relative delay, a network which would correct the phase shift characteristics of the communications channel might very well neutralize the desired attenuation of the filters responsible for the delay. Special delay equalizers called elliptical all-pass filters are required to overcome this problem. Without getting into filter theory, it will suffice to say that these filters are complex and their component values are usually calculated by computer. In typical applications, these filter networks generally contain several adjustable components so that the group delay response can be adjusted for flatness while being observed on the CRT of a group delay detector.

Summary

In conclusion, there are several important points to remember. Group delay is a transit time phenomena. Group delay distortion causes audio distortion in communication links. This cannot be eliminated, but it can be compensated for by special filters. Relative group delay can be measured by a unique application of a phase lock loop and displayed graphically on a CRT. Group delay distortion is not an absolute measurement, but a relative measurement. The actual transit time of a signal through a communication link is not important. It is the changes or fluctuations in the transit time from one frequency to another expressed as group delay distortion that is important.



Dan Braun, who has been with Hewlett-Packard 5 years, is an instrument service technician at the HP Customer Service Center in Mt. View, California. As you can probably tell from the nature of the article, Dan's primary responsibilities are the repair and calibration of HP's microwave test equipment.

Born and raised in the San Francisco Bay Area, Dan attended College of San Mateo where he obtained his AA degree. He furthered his electronic background in Class A school while serving 6 years in the Navy. Dan and his wife, Frieda, live in San Jose, California.

A Quick Guide to Batteries

(Editor's Note: The following article appeared in the Electronic Buyers' News and is reproduced with permission of CMP Publications Inc.)

Even though the electrochemical fabrication of the most commonly used batteries has been known for more than a century, new and improved batteries are providing users an even widening choice of operating characteristics for meeting different requirements.

Consequently, this article attempts to define and explain many of today's batteries and their differing characteristics.

The term battery applies to a range of products classed as primary and secondary. Because their active materials are irreversibly consumed during periods of usage, primary batteries can't be recharged. However, recharging secondary batteries reconstitutes their active materials and permits them to be reused many times.

Strictly speaking, a battery is an assembly of two or more cells. The cells, each made up of two dissimilar electrodes, are in contact with an electrolyte within a closed container. The voltage output of the cell is a function of the electrochemical properties of the electrodes and the electrolyte. For systems in common use today, this ranges from 1.2 to 3.0 volts.

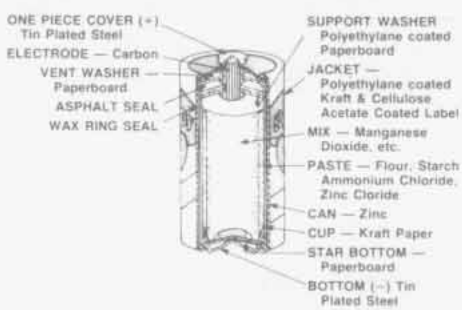
Every cell and battery has two important characteristics: voltage and discharge rate. Voltage higher than the cell voltage are obtained by connecting cells in series so that their voltages combine. For example, a 12-volt battery would consist of six 2-volt cells or eight 1.5-volt cells. In the early days of tube-type radio, there was a constant demand for 45- and 90-volt batteries, each requiring a large number of cells.

Discharge rate is expressed in ampere-hours or milliampere-hours. This is the product of current measured in amperes or milliamperes and the number of hours that the cell or battery can supply or discharge that amount of current. The abbreviations are Ahr and mAhr.

Primary Batteries

Until recently the choice of battery power was limited to the carbon-zinc (Leclanche) dry cell used for general-purpose applications such as flashlights and portable radios. Then the zinc-chloride versions of the carbon-zinc system offered significantly improved energy density, while the alkaline-manganese dioxide system provided a further improvement, the latter being suited for efficient powering of transistorized circuitry. Mercuric oxide and silver oxide met the need for compact button cells for hearing aids, calculators, cameras, and other special needs.

Carbon-Zinc Flashlight Battery



Carbon-Zinc (Leclanche). Still the most common and lowest cost primary system for general purposes, from toys and flashlights to transistorized radios and recorders, carbon-zinc batteries and cells account for at least half of the primary battery sales.

The cell consists of a positive carbon electrode and an electrolyte composed of manganese dioxide, ammonium chloride and zinc chloride and water. The negative electrode is the zinc case. The voltage per cell is 1.5V. Cell sizes range from AAA to D and the lowest cost battery is the 9-V rectangular case size for transistorized products.

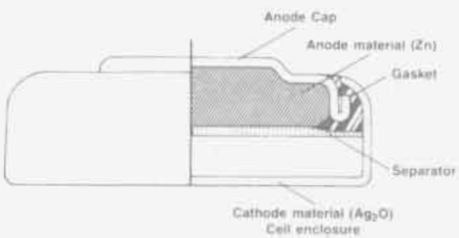
Carbon-Zinc (Zinc-Chloride). The zinc-chloride or heavy-duty version of the basic system provides about 50% more life for the same case size as the Leclanche version. Construction is similar except the ammonium chloride is omitted from the electrolyte. Cell voltage is 1.5V.

Alkaline Manganese Dioxide. The so-called alkaline cell is a further refinement of the basic carbon-zinc system, using the same positive and negative electrodes. Highly alkaline potassium hydroxide is used in place of zinc-chloride. Reportedly, these cells and batteries offer a twofold improvement in energy density over the carbon-zinc system for about twice the price. This system is better adapted for use where reliability and length of service offset the increased cost. Case sizes are similar and cell voltage is the same.

Mercuric Oxide Cells. The mercuric oxide cell has a higher electrical capacity for its size than either carbon-zinc or alkaline cells, providing 1.35 volts per cell. The cathode is mercuric oxide, the anode is zinc and the electrolyte is potassium hydroxide or sodium hydroxide. This system provides effective button-size cells for watches and hearing aids, but seems to be losing ground to the more effective silver-oxide systems.

Silver-Oxide Cells. Silver oxide cells provide more than twice the energy of carbon zinc cells of an equivalent size and offer more energy per unit volume than mercuric oxide cells. Available in two types, high drain and low drain, the silver oxide cathodes are paired to zinc anodes; and the electrolytes are potassium

Silver-Oxide Watch Battery



hydroxide or sodium hydroxide. These button-sized 1.55 cells are in wide demand for watches and hearing aids.

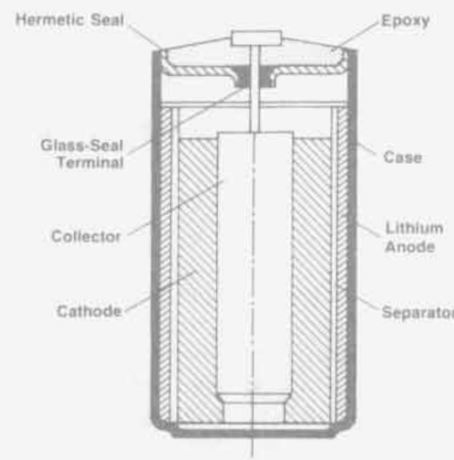
Magnesium Cells are primarily used in military applications due to their ability to withstand extremes in temperature and humidity and to provide energy after years of storage. A magnesium alloy is used for the anode; magnesium bromide for the electrolyte. Magnesium cells provide 1.8 volts per cell.

Zinc-Air Cells are high-energy primary systems available commercially today for hearing aid and watch use. They use oxygen as the positive electrode, zinc as the negative electrode and feature an electrolyte of potassium hydroxide. Shelf life is excellent because they are only activated by removing the tape from a tiny hole, which admits air. The zinc air cell provides 1.5 volts per cell.

Lithium Cells. The term lithium cell or battery applies to a number of different electrochemical systems capable of producing from 1 to 4 volts per cell. Lithium is used as the negative electrode in all of them, but the voltage and operating characteristics are determined by the choice of cathode and electrolyte. All of the systems employ highly reactive alkali metals prepared without the use of water, so they are classed as non-aqueous.

At present, lithium systems in use or under investigation are also classed as either solid or liquid. In the solid

Lithium Cell



systems, the cathode is a metal halide, sulfide or oxide, and the electrolytes are lithium salts in organic solvent. The liquid systems have soluble reactants with catalytic materials (sulfur dioxide or thionyl chloride). The electrolytes in the liquid units can be organic or inorganic.

The Type Used in HP Calculators

Rechargeable Nicads

Nickel-cadmium batteries are often blamed for early failure when in fact, you have been abusing the poor things all along without realizing it. And true to Murphy's law, your device will go dead when you need it the most and do not have the charger with you; or you do have the charger, but there's no AC power available.

To demonstrate proper nicad use, let's look at the nicad cells used by Hewlett-Packard calculators. These cells, according to their manufacturer, should average approximately 500 charge/discharge cycles. Sometimes your treatment of these batteries may shorten or appear to shorten their useful life. Of course, subjecting nicads to excessive temperatures will guarantee to shorten their life. But the way you use the calculator and charge the batteries can also affect their performance.

The ideal charge/discharge cycle is as follows: 1) fully charge the nicads on the recharger; 2) remove the recharger and operate the calculator on battery power until a low level indication occurs; 3) recharge fully on recharger. This method results in maximum battery performance. Actually most people do not use their calculators in this manner, but rather in the broad spectrum between two extremes. Those two extremes are excessively deep discharging and continual recharger use.

Continual Recharger Use

Continual recharger use does not harm the calculator or batteries. If the calculator is used in a combination of recharger and battery power, and if the battery is discharged to a *different* level each charge/discharge cycle, no harm is done. If, however, a battery is subjected to a repetitive depth of discharge over a period of many months, a phenomenon known as memory may result. Memory is an apparent temporary loss of capacity. To illustrate, suppose a calculator is kept on the recharger continually, except for a 5-minute period each day when it is used on battery power. Over a long period of time, the nickel-cadmium batteries begin to "remember" the capacity they

Though lithium systems cost less than silver oxide materials, their manufacturing costs are higher. They can replace mercury and silver based systems where their voltages are about equal, but the higher lithium voltages may call for circuit or product redesign.

Lithium battery systems can present potential safety hazards because of their higher energy content, higher reactivity and the unusual nature of the materials involved. Most often, they are seen as supplementing rather than replacing silver oxide systems. But lithium cells have the highest watt hours per cubic inch (Whr/in^3) and their hermetically sealed cells afford a shelf life in excess of five years.

Secondary Batteries

Lead-Acid Cell. Storage batteries made of multiple lead-acid cells are the most widely used rechargeable batteries.

The positive electrodes of lead-acid cells are made of lead peroxide and the negative electrodes are made of sponge lead paste. The groups of positive and negative plates are interleaved and spaced by separators. The complete assembly is places in an electrolyte of diluted sulfuric acid. A storage battery is made up of separate compartments or cells, each with its own filler and vent plug. The voltage of each cell is approximately 2 volts. Actually, automobile batteries use cells of 2.1 volts so the combinations of 6 cells provides 12.6 volts.

An interesting sidelight can be shown when you compare high cost vs low cost automobile batteries within the same group (i.e. group being a standard size of battery such as 24F). In general, the low cost battery will have fewer plates (less lead, hence lower cost), and have a lower ampere-hour rating than the high cost battery. Once quick way to verify this is to weigh the two batteries. Obviously, the battery with more plates has more lead and therefore weighs more. It also lasts longer when you inadvertently leave your lights on. It also can provide more cranking power for cold morning starts.

Of more interest to the electronics industry for the continous power of remote instrumentation sensors, TV sets, medical instruments and truly portable tools is the true sealed lead-acid battery. No acid or vapor is vented and all evolved oxygen gas is recombined with the plate materials. These batteries and cells are presently limited to lower watt-hour ratings than the maintenance-free batteries. Although some of the cases are flashlight cell size, these sealed lead-acid cells are not interchangeable with either carbon zinc and alkaline cells.

There are a number of different proprietary methods for making sealed lead-acid cells. Some makers are

are expected to deliver each day, and they then will deliver no more than that amount. Memory is completely reversible by a few complete charge/discharge cycles (from full charge down to low level indication).

Deep Discharge

The other extreme encountered is excessive deep discharging of batteries. This is potentially the most damaging to nicad cells. In most cases, the cause of failure when a battery is too deeply discharged is an internal short. Normally a charged or partially-charged cell has enough internal energy to vaporize a short. However, when a cell has been too deeply discharged, the cell does not have enough internal energy to clear or prevent a potential short. The result is that with a number of deep discharge cycles, the chances of shorting increase. There are two varieties of shorts possible — a low-impedance and a high-impedance short. A low-impedance shorted cell will not respond to any level of recharging current. A high-impedance shorted cell can recover under high charging currents (2A to 4A). However, the shelf life of this cell is very short as it actually discharges itself through its own internal short. Consequently, both low-impedance and high-impedance shorted cells are considered permanent failures. Another type of failure associated with deep discharge is called cell reversal. In a multi-cell battery, deep discharge will cause one cell to become exhausted first, since cells cannot be precisely matched in capacity. The cell with remaining capacity drives the exhausted cell into a reverse state of charge which is cell reversal. This is a permanent failure, and the battery pack must be replaced.

The problem of discharging your battery too deeply does not always disappear even when you have been made aware of the situation. A malfunctioning low-level detect system could be the guilty culprit.

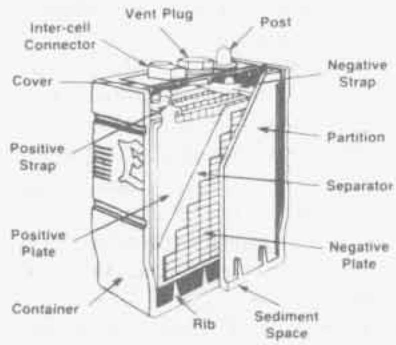
We won't discuss catastrophic cell failure in the form of venting since it is an easily recognizable problem requiring battery replacement. Excessive temperature, excessive overcharge, cell reversal, and misuse or abuse of nicads are all causes of venting.

So remember, to get an average of 500 charge/discharge cycles out of your HP calculator Nicads, give it a full charge, use it until all the decimal points light up, then give it another full charge.

using very thin, spirally wound positive and negative plates, with the liquid electrolyte contained in a separator. Other makers are using a gelled sulfuric acid electrolyte. All of these cells, however, have safety vents, usually resealable membranes, to prevent the cell from exploding in the event of accidental overcharge.

Nickel-Cadmium Cell. The nickel-cadmium cell can be recharged many times and has almost constant voltage during discharge. These cells operate well at low temperatures and can be hermetically sealed.

Lead-Acid Automobile Battery



In the charged condition, the positive electrode is nickel hydroxide and the negative electrode is metallic cadmium. The electrolyte is a solution of potassium hydroxide. The average operating voltage is about 1.2 volts.

Nickel-cadmium power sources are divided into the low watt-hour units suitable for calculators, walkie-talkie portable radios and portable tools, not to mention vented versions with higher ratings which are widely used in aircraft ignition systems. Sealed nickel-cadmium cells are made in button sizes through the range of flashlight "D" cells. Rechargers are supplied with the consumer product as part of a line-cord transformer-rectifier assembly.

Recommended Spare Parts Kit For HP Products

SPARES

Spare Parts — Anticipated Requirements Evaluation System

The last issue of Bench Briefs showed you a simple system for ordering parts directly from HP (MOP for Mail Order Parts) so you could avoid the $20 minimum charge. Now, here is a way to put it to use — replenishing spare parts kits.

SPARES is the name of a computer program used by HP to generate recommended spare parts lists for most HP products. After purchasing the recommended spare parts kit, if your instrument should ever need repair, there is a 90% probability of having the part available. Probability is even higher if spares are replenished as they are used.

Multiple Lists

Recommendations can be made for a single product (1 each 5245L), a quantity of identical products (96 each 5245L), or a combination list for various quantities of different products (6 each 412A, 27 each 1707A, and 9 each 5245L). Recommendations can be made for a spare parts inventory of one year up to nine years.

Long-Term Packaging

Long-term and military-standard packaging is optional. The process used for long-term packaging increases the kit's shelf life because each part is individually packaged and marked. This provides easy identification and protection against destructive effects of weather and atmospheric conditions while in storage.

For more information about SPARES, contact your local HP Sales and Service office. Reference the HP Corporate Parts Center Policies and Procedures Manual, Section 3080.

Replacement Part Cross Reference

When selecting replacement parts for your HP products, you may notice that many manuals list only an HP part number for the part, even though it appears that this part is manufactured by one of the large semiconductor manufacturers. Service personnel often ask why only HP part numbers are listed.

It is recommended that HP replacement parts be used to ensure that the original performance of the product will be obtained. While some parts used in HP instruments are identical to that which can be purchased at a local electronics distributor, many times parts will be selected for certain characteristics, such as gain, bandwidth, capacitance, etc. There may also be slight mechanical differences, such as the shaping or length of leads. In some cases special quality checks are employed to ensure that high reliability parts are used at the factory and at HP field offices.

Therefore, we suggest obtaining replacement parts from HP to maintain the quality that you have paid for in your instrument. There may be situations however where HP replacement parts are not in stock and substituting parts will allow you to return the product to service immediately. In these cases it may be worthwhile to see if a substitute part will work in the circuit. Perhaps an HP part could be ordered and installed at some later date.

To help you in these situations, here's a cross-reference of HP integrated circuit part numbers to manufacturers "generic type" part numbers (whom in most cases is the originator of the part). Even though the cross-reference only lists one manufacturer, there may actually be several approved sources for an HP part. While every attempt was made to ensure the accuracy of the list, it is advisable to compare the description of the device being replaced with the description of the substituted part. For example, if the service manual describes the device being replaced as a "dual J-K flip-flop", check this against the description of the replacement part.

Manufacturers Code Number Cross Reference

Number	Manufacturer	Location
00039	Nippon Electric Co.	Tokyo, JP
00350	Exar Integrated Systems Inc.	Sunnyvale, CA
00575	Western Digital Corp.	Newport Beach, CA
01590	Plessey Semiconductors	Santa Ana, CA
01698	Texas Instr. Inc. Semicond. Cmpnt. Div.	Dallas, TX
01795	Synertek	Santa Clara, CA
01876	HP Div. 02 Santa Clara IC's 86	Santa Clara, CA
01921	RCA Corp. Solid State Div.	Somerville, NJ
01973	GE Co. Semiconductor Prod. Dept.	Auburn, NY
01991	Transitron Electronic Corp.	Wakefield, MA
02023	Illinois Tool Works Inc. Licon Div.	Chicago, IL
02037	Motorola Semiconductor Products	Phoenix, AZ
02180	Precision Monolithics Inc.	Santa Clara, CA
02237	Fairchild Semiconductor Div.	Mountain View, CA
02290	Raytheon Co. Semiconductor Div. HQ	Mountain View, CA
02569	Crystalonics, Div. Teledyne	Cambridge, MA
02598	Unitrode Corp.	Watertown, MA
02634	Sprague Elect. Co. Semiconductor Div.	Concord, NH
02713	General Instr. Corp. Semicon. Prod. GP	Hicksville, NY
02763	Teledyne Semiconductor	Mountain View, CA
02838	Dynamic Measurements Corp.	Winchester, MA
02882	Zeltex Inc. Sub. of Redcor Corp.	Concord, CA
02883	Siliconix	Santa Clara, CA
02910	Signetics Corp.	Sunnyvale, CA
03183	HP Div. 22 Data Systems	Cupertino, CA
03285	Analog Devices Inc.	Norwood, MA
03334	Amperex Elek. Corp. Semicon. & MC Div.	Slatersville, RI
03406	National Semiconductor Corp.	Santa Clara, CA
03545	Teledyne Philbrick Nexus	Dedham, MA
03658	Optimax Inc.	Colmar, PA
03677	American Micro Systems Inc.	Santa Clara, CA
03714	Intersil Inc.	Cupertino, CA
03755	Hybrid Systems Corp.	Burlington, MA
03758	Electronic Arrays, Inc.	Mountain View, CA
03780	Intech Inc.	Santa Clara, CA
03794	Advanced Micro Devices Inc.	Sunnyvale, CA
03795	Motorola Inc.	Franklin Park, IL
03799	Harris Semicon. Div. Harris-Intertype	Melbourne, FL
03811	Intel Corp.	Mountain View, CA
04078	Mostek Corp.	Carrollton, TX
04092	Monolithic Memories Inc.	Sunnyvale, CA
04183	Nitron Div. McDonnell Douglas Corp.	Cupertino, CA
04200	Sprague Electric Co.	North Adams, MA
05436	Burr Brown Co.	Tucson, AZ
06338	SGS Ates	Milan, IT
06545	Lambda Electronics Corp.	Melville, NY
06563	Siemens Corp. Components Group	Scottsdale, AZ
06852	Data Delay Devices	Clifton, NJ
07653	Zilog Inc.	Cupertino, CA
07810	Texas Instruments France	Nice, FR
07915	Hytek Microsystems Inc.	San Diego, CA

HP P/N	Mfr.	Desc.
1813-0013	03285	40K
1813-0016	05436	3112/12C
1813-0034	03714	IH5010CPD
1813-0035	03285	233A(SPEC)
1813-0036	03765	DAC372-12-BCU
1813-0039	02882	ZD441
1813-0040	02882	ZD440
1813-0041	03406	LH0042CH
1813-0043	03795	K1091A-10.48576MHZ
1813-0045	03795	K1091A-5.0MHZ
1813-0046	03795	K1100A-15MHZ
1813-0047	03795	K1091A-10.0MHZ
1813-0048	03285	751N
1813-0049	02763	2740CE
1813-0052	03795	K1091A-7.50MHZ
1813-0053	03795	K1091A-6.9120MHZ
1813-0054	03406	AH0154D
1813-0057	03406	LH0024CH
1813-0058	03406	LH0021CK
1813-0061	03795	K1100A-8.389MHZ
1813-0062	03795	K1100A-10.486MHZ
1813-0064	03285	ADC1207-003
1813-0067	03795	K1115A-10MHZ
1813-0081	03795	K1100A28.500
1813-0082	02598	PIC646
1813-0083	02598	PIC601
1813-0084	02598	PIC611
1813-0089	03795	[illegible]
1813-0092	05436	DAC80-CCD-V
1813-0093	02237	UA78M12SC
1813-0094	05436	DAC80-CBI-I
1813-0098	05436	ADC80AG-12
1813-0100	02237	UA78H05KC
1813-0105	05436	DAC80-CBI-V
1813-0109	02598	PIC625
1813-0110	02598	PIC626
1813-0114	02598	PIC645
1813-0115	02598	PIC600
1813-0116	03795	K1100A-9.8304MHZ
1813-0117	03795	K1100A-1.792MHZ
1813-0119	03795	K1100A-40MHZ
1813-0120	06352	HDU-475100
1813-0121	03795	K1114A-10.1376MHZ

HP P/N	Mfr.	Desc.
1813-0123	02237	UA78HGKC
1813-0124	02237	UA78H15KC
1813-0126	03795	K1115A-22.2464 MHZ
1813-0127	02237	UA79HGKC
1813-0128	03795	K1100A
1813-0129	03795	K1100A
1813-0130	03795	K1148
1813-0131	03795	K1135A
1813-0132	05436	DAC71-CSB-I
1813-0133	02838	7162
1813-0134	03795	K1100A-1.0MHZ
1813-0135	03795	K1100A-18.5MHZ
1813-0136	03658	DS-02X
1813-0138	02037	MM5592
1813-0139	03795	K1100A-10.0MHZ
1813-0140	05436	SDM857KG
1813-0141	07915	4Y1220
1816-0001	04092	6200-1J MASKED
1816-0002	04092	6200-1J MASKED
1816-0003	01698	SN74S188N PROGRAMMED
1816-0004	01698	SN74S188N PROGRAMMED
1816-0005	03799	HPROM1-1024-G3095
1816-0012	04092	6200-1J MASKED
1816-0013	04092	6200-1J MASKED
1816-0014	04092	6200-1J MASKED
1816-0015	03799	HPROM1-1024-5B
1816-0016	02910	N82S123F
1816-0041	04092	6200-1J MASKED
1816-0042	02037	MCM4004A
1816-0043	02037	MCM4004A
1816-0044	02037	MCM4004A
1816-0045	02037	MCM4004A
1816-0046	03714	IM5600CPE PROGRAMMED
1816-0047	03714	IM5600CPE PROGRAMMED
1816-0048	03714	IM5600CPE PROGRAMMED
1816-0049	03714	IM5600CPE PROGRAMMED
1816-0050	03714	IM5600CPE PROGRAMMED
1816-0051	03714	IM5600CPE PROGRAMMED
1816-0052	03714	IM5600CPE PROGRAMMED
1816-0053	03714	IM5600CPE PROGRAMMED
1816-0124	04092	6300-1J
1816-0178	04092	6200-1J MASKED
1816-0179	03714	IM5600CPE PROGRAMMED
1816-0180	03714	IM5600CPE PROGRAMMED
1816-0181	03714	IM5600CPE PROGRAMMED
1816-0182	03714	IM5600CPE PROGRAMMED
1816-0183	03714	IM5600CPE PROGRAMMED
1816-0184	01698	SN74S188N PROGRAMMED
1816-0185	01698	SN74S188N PROGRAMMED
1816-0186	01698	SN74S188N PROGRAMMED
1816-0187	03799	HPROM-1024 PROGRAMMED
1816-0188	01698	SN74S188N PROGRAMMED
1816-0217	03714	IM5610CPE
1816-0250	03799	HPROM1-1024-5B PROGRAMMED
1816-0254	01698	SN74S188N PROGRAMMED
1816-0255	01698	SN74S188N PROGRAMMED
1816-0256	01698	SN74S188N PROGRAMMED
1816-0257	01698	SN74S387N PROGRAMMED
1816-0258	01698	SN74S387N PROGRAMMED
1816-0268	01698	SN74S287N PROGRAMMED
1816-0273	04092	6330-1J PROGRAMMED
1816-0274	04092	6330-1J PROGRAMMED
1816-0275	04092	6330-1J PROGRAMMED
1816-0276	04092	6330-1J PROGRAMMED
1816-0286	01698	SN74S387N PROGRAMMED
1816-0290	03799	HM1-7611-5 PROGRAMMED
1816-0291	03799	HM1-7611-5 PROGRAMMED
1816-0292	03799	HM1-7611-5 PROGRAMMED
1816-0293	03799	HM1-7611-5 PROGRAMMED
1816-0294	03799	HM1-7611-5 PROGRAMMED
1816-0295	03799	HM1-7611-5 PROGRAMMED
1816-0296	03799	HM1-7611-5 PROGRAMMED
1816-0299	03406	DM8598N PROGRAMMED
1816-0300	03406	DM8597N PROGRAMMED
1816-0341	01698	SN74S387N PROGRAMMED
1816-0342	01698	SN74S387N PROGRAMMED
1816-0343	01698	SN74187N MASKED
1816-0344	02910	N82S229N MASKED
1816-0345	02910	N82S229N MASKED
1816-0346	02910	N82S229N MASKED
1816-0347	02910	N82S229N MASKED
1816-0348	04092	6330-1J
1816-0349	02910	2526N
1816-0350	01698	SN74S387N PROGRAMMED
1816-0351	01698	SN74S188N PROGRAMMED
1816-0352	01698	SN74S187N MASKED
1816-0353	01698	SN74S188N PROGRAMMED
1816-0354	01698	SN74S387N PROGRAMMED
1816-0355	04078	MK2302P
1816-0363	01698	SN74S188N PROGRAMMED
1816-0392	04092	6301-1J PROGRAMMED
1816-0393	04092	6301-1J PROGRAMMED
1816-0409	03799	HPROM-8256-5D
1816-0410	03714	IM5600CPE PROGRAMMED
1816-0411	03714	IM5600CPE PROGRAMMED
1816-0412	01698	SN74S189N PROGRAMMED
1816-0413	04092	6301-1J PROGRAMMED
1816-0420	02910	N82S129F PROGRAMMED
1816-0421	01698	SN74S287N PROGRAMMED
1816-0422	01698	SN74S287N PROGRAMMED
1816-0423	01698	SN74S287N PROGRAMMED
1816-0424	01698	SN74S288N PROGRAMMED
1816-0425	01698	SN74S284N PROGRAMMED
1816-0438	01698	SN74S387N PROGRAMMED
1816-0439	04092	6348-1J
1816-0444	03799	HPROM1-1024-5B PROGRAMMED
1816-0445	03799	HPROM1-1024-5B PROGRAMMED
1816-0446	03799	HPROM1-1024-5B PROGRAMMED
1816-0447	03799	HPROM1-1024-5B PROGRAMMED
1816-0448	03799	HPROM1-1024-5B PROGRAMMED
1816-0449	03799	HPROM1-1024-5B PROGRAMMED
1816-0450	03799	HPROM1-1024-5B PROGRAMMED
1816-0451	03799	HPROM1-1024-5B PROGRAMMED
1816-0497	02910	N82S131F PROGRAMMED
1816-0498	02910	N82S131F PROGRAMMED
1816-0499	02910	N82S131F PROGRAMMED
1816-0500	02910	N82S131F PROGRAMMED
1816-0501	02910	N82S131F PROGRAMMED
1816-0502	02910	N82S131F PROGRAMMED
1816-0503	02910	N82S131F PROGRAMMED
1816-0504	02910	N82S131F PROGRAMMED
1816-0505	02910	N82S131F PROGRAMMED
1816-0506	02910	N82S131F PROGRAMMED
1816-0507	02910	N82S131F PROGRAMMED
1816-0508	02910	N82S131F PROGRAMMED
1816-0509	02910	N82S131F PROGRAMMED
1816-0510	02910	N82S131F PROGRAMMED
1816-0511	02910	N82S131F PROGRAMMED
1816-0512	02910	N82S131F PROGRAMMED
1816-0513	02910	N82S131F PROGRAMMED
1816-0514	02910	N82S131F PROGRAMMED
1816-0515	02910	N82S131F PROGRAMMED
1816-0516	02910	N82S131F PROGRAMMED
1816-0517	02910	N82S131F PROGRAMMED
1816-0518	02910	N82S131F PROGRAMMED
1816-0519	02910	N82S131F PROGRAMMED
1816-0520	02910	N82S131F PROGRAMMED
1816-0521	02910	N82S131F PROGRAMMED
1816-0522	02910	N82S131F PROGRAMMED
1816-0523	02910	N82S131F PROGRAMMED
1816-0524	02910	N82S131F PROGRAMMED
1816-0525	02910	N82S131F PROGRAMMED
1816-0526	02910	N82S131F PROGRAMMED
1816-0527	02910	N82S131F PROGRAMMED
1816-0528	02910	N82S131F PROGRAMMED
1816-0532	03799	HPROM1-1024-5B PROGRAMMED
1816-0533	03799	HPROM1-1024-5B PROGRAMMED
1816-0534	03799	HPROM1-1024-5B PROGRAMMED
1816-0535	03799	HPROM1-1024-5B PROGRAMMED
1816-0536	03799	HPROM1-1024-5B PROGRAMMED
1816-0537	03799	HPROM1-1024-5B PROGRAMMED
1816-0538	03799	HPROM1-1024-5B PROGRAMMED
1816-0539	03799	HPROM1-1024-5B PROGRAMMED
1816-0540	03799	HPROM1-1024-5B PROGRAMMED
1816-0541	03799	HPROM1-1024-5B PROGRAMMED
1816-0542	03799	HPROM1-1024-5B PROGRAMMED
1816-0543	03799	HPROM1-1024-5B PROGRAMMED
1816-0544	03799	HPROM1-1024-5B PROGRAMMED
1816-0545	03799	HPROM1-1024-5B PROGRAMMED
1816-0546	03799	HPROM1-1024-5B PROGRAMMED
1816-0547	03799	HPROM1-1024-5B PROGRAMMED
1816-0548	03799	HPROM1-1024-5B PROGRAMMED
1816-0549	03799	HPROM1-1024-5B PROGRAMMED
1816-0550	03799	HPROM1-1024-5B PROGRAMMED
1816-0551	02910	N82S131F PROGRAMMED
1816-0552	02910	N82S131F PROGRAMMED
1816-0553	02910	N82S131F PROGRAMMED
1816-0554	02910	N82S131F PROGRAMMED
1816-0555	02910	N82S131F PROGRAMMED
1816-0556	02910	N82S131F PROGRAMMED
1816-0557	02910	N82S131F PROGRAMMED
1816-0558	02910	N82S131F PROGRAMMED
1816-0561	01698	SN74S188N PROGRAMMED
1816-0562	01698	SN74S188N PROGRAMMED
1816-0591	04092	6301-1J PROGRAMMED
1816-0592	04092	6301-1J PROGRAMMED
1816-0593	04092	6301-1J PROGRAMMED
1816-0594	04092	6301-1J PROGRAMMED
1816-0595	04092	6301-1J PROGRAMMED
1816-0597	01698	SN74S188N PROGRAMMED
1816-0598	01698	SN74S288N
1816-0599	02910	N82S115F PROGRAMMED
1816-0600	02910	N82S115F PROGRAMMED
1816-0601	02910	N82S115F PROGRAMMED
1816-0605	02910	N82S115F
1816-0612	03794	AM27S820C MASKED
1816-0613	03794	AM27S820C MASKED
1816-0614	01698	SN74S288N PROGRAMMED
1816-0615	01698	SN74S188N PROGRAMMED
1816-0617	04092	6301-1J PROGRAMMED
1816-0618	04092	6301-1J PROGRAMMED
1816-0619	04092	6301-1J PROGRAMMED
1816-0620	04092	6301-1J PROGRAMMED
1816-0621	04092	6301-1J PROGRAMMED
1816-0622	04092	6301-1J PROGRAMMED
1816-0635	01698	SN74S188N PROGRAMMED
1816-0636	01698	SN74S188N PROGRAMMED
1816-0640	01698	SN74S189J
1816-0641	04092	6260-1J MASKED
1816-0642	04092	6282-1J MASKED
1816-0647	03714	IM5610CPE PROGRAMMED
1816-0648	03714	IM5610CPE PROGRAMMED
1816-0649	03714	IM5610CPE PROGRAMMED
1816-0651	03714	IM5610CPE
1816-0676	01698	SN74S188N PROGRAMMED
1816-0677	01698	SN74S188N PROGRAMMED
1816-0678	01698	SN74S188N PROGRAMMED
1816-0679	01698	SN74S387N PROGRAMMED
1816-0680	01698	SN74S188N PROGRAMMED
1816-0681	03714	IM5600CPE PROGRAMMED
1816-0682	03714	IM5600CPE PROGRAMMED
1816-0707	01698	SN74S387N PROGRAMMED
1816-0708	01698	SN74S188N PROGRAMMED
1816-0709	01698	SN74S188N PROGRAMMED
1816-0710	02910	N82S131F
1816-0713	01698	SN74186J
1816-0714	03714	IM5600CPE PROGRAMMED
1816-0715	03714	IM5600CPE PROGRAMMED
1816-0716	03714	IM5600CPE PROGRAMMED
1816-0717	03714	IM5600CPE PROGRAMMED
1816-0718	03714	IM5600CPE PROGRAMMED
1816-0719	03714	IM5610CPE PROGRAMMED
1816-0720	03714	IM5610CPE PROGRAMMED
1816-0721	01698	SN74S287N PROGRAMMED
1816-0722	01698	SN74S287N PROGRAMMED
1816-0723	[illegible]	[illegible]
1816-0724	01698	SN74S189N
1816-0725	03714	IM5610CPE PROGRAMMED
1816-0726	03714	IM5610CPE PROGRAMMED
1816-0727	03714	IM5610CPE PROGRAMMED
1816-0728	02910	N82S09I
1816-0729	01698	SN74S287N PROGRAMMED
1816-0730	01698	SN74S287N PROGRAMMED
1816-0731	01698	SN74S287N PROGRAMMED
1816-0732	01698	SN74S287N PROGRAMMED
1816-0733	01698	SN74S287N PROGRAMMED
1816-0734	01698	SN74S287N PROGRAMMED
1816-0735	01698	SN74S287N PROGRAMMED
1816-0736	01698	SN74S287N PROGRAMMED
1816-0737	01698	SN74S287N PROGRAMMED
1816-0738	01698	SN74S287N PROGRAMMED
1816-0739	01698	SN74S287N PROGRAMMED
1816-0740	01698	SN74S287N PROGRAMMED
1816-0742	01698	SN74S287N PROGRAMMED
1816-0743	04092	6282-1J MASKED
1816-0744	04092	6282-1J MASKED
1816-0745	03714	IM5610CPE PROGRAMMED
1816-0746	03714	IM5610CPE PROGRAMMED
1816-0771	01698	SN74S188N PROGRAMMED
1816-0772	01698	SN74S188N PROGRAMMED
1816-0777	02910	N82S123N PROGRAMED
1816-0778	01698	SN74S288N PROGRAMMED
1816-0779	01698	SN74S287N PROGRAMMED
1816-0780	01698	SN74S288N PROGRAMMED
1816-0781	03714	IM5610CPE PROGRAMMED
1816-0782	02910	N82S129F
1816-0783	01698	SN74S188N PROGRAMMED
1816-0784	01698	SN74S188N PROGRAMMED
1816-0785	01698	SN74S188N PROGRAMMED
1816-0786	01698	SN74S189N PROGRAMMED
1816-0787	01698	SN74S289N
1816-0788	03794	AM27S80DC MASKED
1816-0789	03794	AM27S80DC MASKED
1816-0790	01698	SN74S188N PROGRAMMED
1816-0791	01698	SN74S188N PROGRAMMED
1816-0792	01698	SN74S188N PROGRAMMED
1816-0793	01698	SN74S188N PROGRAMMED
1816-0794	01698	SN74S188N PROGRAMMED
1816-0795	01698	SN74S387N PROGRAMMED
1816-0821	01698	SN74S188N PROGRAMMED
1816-0823	01698	SN74S188N PROGRAMMED
1816-0824	04092	6301-1J PROGRAMMED
1816-0825	04092	6301-1J PROGRAMMED
1816-0826	04092	6301-1J PROGRAMMED
1816-0827	04092	6301-1J PROGRAMMED
1816-0828	03714	IM5600CPE PROGRAMMED
1816-0829	03714	IM5600CPE PROGRAMMED
1816-0830	04092	6301-1J PROGRAMMED
1816-0831	02910	N82S131F PROGRAMMED
1816-0832	02910	N82S131F PROGRAMMED
1816-0833	02910	N82S131F PROGRAMMED
1816-0834	02910	N82S131F PROGRAMMED
1816-0835	02910	N82S131F PROGRAMMED
1816-0836	02910	N82S131F PROGRAMMED
1816-0837	02910	N82S131F PROGRAMMED
1816-0838	02910	N82S131F PROGRAMMED
1816-0851	04092	6301-1J PROGRAMMED
1816-0852	04092	6301-1J PROGRAMMED
1816-0853	04092	6301-1J PROGRAMMED
1816-0854	04092	6301-1J PROGRAMMED
1816-0855	04092	6301-1J PROGRAMMED
1816-0856	04092	6301-1J PROGRAMMED
1816-0857	04092	6301-1J PROGRAMMED
1816-0860	02037	MCM5004AL
1816-0861	02910	N82S123N PROGRAMMED
1816-0863	04092	6301-1J PROGRAMMED
1816-0868	03811	P3604L-6
1816-0870	02910	N82S131F PROGRAMMED
1816-0871	02910	N82S131F PROGRAMMED
1816-0872	02910	N82S131F PROGRAMMED
1816-0873	02910	N82S131F PROGRAMMED
1816-0874	02910	N82S131F PROGRAMMED
1816-0875	02910	N82S131F PROGRAMMED
1816-0876	02910	N82S131F PROGRAMMED
1816-0877	02910	N82S131F PROGRAMMED
1816-0878	02910	N82S131F PROGRAMMED
1816-0879	02910	N82S131F PROGRAMMED
1816-0880	02910	N82S131F PROGRAMMED
1816-0881	02910	N82S131F PROGRAMMED
1816-0882	02910	N82S131F PROGRAMMED
1816-0883	02910	N82S131F PROGRAMMED
1816-0884	02910	N82S131F PROGRAMMED
1816-0885	02910	N82S131F PROGRAMMED
1816-0886	02910	N82S131F PROGRAMMED
1816-0887	02910	N82S131F PROGRAMMED
1816-0888	02910	N82S131F PROGRAMMED
1816-0889	02910	N82S131F PROGRAMMED
1816-0890	02910	N82S131F PROGRAMMED
1816-0891	02910	N82S131F PROGRAMMED
1816-0892	02910	N82S131F PROGRAMMED
1816-0893	02910	N82S131F PROGRAMMED
1816-0894	01698	SN74S288N PROGRAMMED
1816-0895	01698	SN74S288N PROGRAMMED
1816-0896	01698	SN74S288N PROGRAMMED
1816-0897	01698	SN74S287N PROGRAMMED
1816-0898	01698	SN74S287N PROGRAMMED
1816-0899	01698	SN74S188N PROGRAMMED
1816-0900	01698	SN74S188N PROGRAMMED
1816-0901	01698	SN74S188N PROGRAMMED
1816-0910	02910	N82S115F PROGRAMMED
1816-0911	02910	N82S115F PROGRAMMED
1816-0912	02910	N82S115F PROGRAMMED
1816-0913	03794	AM31L01PC
1816-0914	02237	93415DC
1816-0915	02910	N82S23F
1816-0916	02910	N82S123F
1816-0917	02910	N82S126F
1816-0918	02910	N82S130F
1816-0919	03811	D3624A
1816-0920	01698	SN74S188N PROGRAMMED

HP P/N	Mfr.	Desc.
1816-0921	02910	N82S115F PROGRAMMED
1816-0922	02910	N82S115F PROGRAMMED
1816-0923	02910	N82S115F PROGRAMMED
1816-0928	02910	N82S140F
1816-0929	02910	N82S141F
1816-0930	02910	N82S138F
1816-0931	02910	N82S137F
1816-0932	01698	SN74S287N PROGRAMMED
1816-0933	01698	SN74S287N PROGRAMMED
1816-0934	02237	9403PC
1816-0935	01698	SN74S188N PROGRAMMED
1816-0936	01698	SN74S188N PROGRAMMED
1816-0937	03714	IM5600CPE PROGRAMMED
1816-0941	02910	N82S141F PROGRAMMED
1816-0942	02910	N82S141F PROGRAMMED
1816-0943	02910	N82S141F PROGRAMMED
1816-0944	02910	N82S141F PROGRAMMED
1816-0945	02910	N82S141F PROGRAMMED
1816-0946	02910	N82S141F PROGRAMMED
1816-0947	04092	6260J MASKED
1816-0948	02910	N82S115I PROGRAMMED
1816-0949	02910	N82S115I PROGRAMMED
1816-0950	02910	N82S115I PROGRAMMED
1816-0951	02910	N82S115I PROGRAMMED
1816-0952	02910	N82S115I PROGRAMMED
1816-0953	02910	N82S115I PROGRAMMED
1816-0954	02910	N82S115I PROGRAMMED
1816-0955	02910	N82S115I PROGRAMMED
1816-0956	02910	N82S115I PROGRAMMED
1816-0957	02910	N82S115I PROGRAMMED
1816-0958	02910	N82S115I PROGRAMMED
1816-0959	02910	N82S115I PROGRAMMED
1816-0960	02237	93448DC PROGRAMMED
1816-0961	02237	93448DC PROGRAMMED
1816-0962	04092	6301-1J PROGRAMMED
1816-0963	03714	IM5600CPE PROGRAMMED
1816-0964	03714	IM5600CPE PROGRAMMED
1816-0965	03714	IM5600CPE PROGRAMMED
1816-0966	03714	IM5600CPE PROGRAMMED
1816-0967	01698	SN74S188N PROGRAMMED
1816-0968	02910	N82S131F PROGRAMMED
1816-0969	02910	N82S131F PROGRAMMED
1816-0970	02910	N82S131F PROGRAMMED
1816-0971	02910	N82S131F PROGRAMMED
1816-0972	02910	N82S131F PROGRAMMED
1816-0973	02910	N82S131F PROGRAMMED
1816-0974	02910	N82S131F PROGRAMMED
1816-0975	02910	N82S131F PROGRAMMED
1816-0976	02910	N82S131F PROGRAMMED
1816-0977	02910	N82S131F PROGRAMMED
1816-0978	02910	N82S131F PROGRAMMED
1816-0979	02910	N82S131F PROGRAMMED
1816-0980	02910	N82S131F PROGRAMMED
1816-0981	02910	N82S131F PROGRAMMED
1816-0982	02910	N82S131F PROGRAMMED
1816-0983	02910	N82S131F PROGRAMMED
1816-0987	03799	HM1-7644-5
1816-0988	01698	SN74S288N PROGRAMMED
1816-0989	02910	N82S131N PROGRAMMED
1816-0990	02910	N82S131N PROGRAMMED
1816-0991	01698	SN74S288N PROGRAMMED
1816-0993	02237	93448DC
1816-0994	04092	6335J
1816-0995	01698	SN74S288N PROGRAMMED
1816-0996	04092	6301-1J PROGRAMMED
1816-0997	04092	6301-1J PROGRAMMED
1816-0998	04092	6301-1J PROGRAMMED
1816-0999	04092	6301-1J PROGRAMMED
1816-1000	04092	6301-1J PROGRAMMED
1816-1001	04092	6301-1J PROGRAMMED
1816-1006	01698	SN74S188N PROGRAMMED
1816-1007	01698	SN74S188N PROGRAMMED
1816-1008	01698	SN74S472J
1816-1009	01698	SN74S287N PROGRAMMED
1816-1010	01698	SN74S287N PROGRAMMED
1816-1011	01698	SN74S287N PROGRAMMED
1816-1012	01698	SN74S287N PROGRAMMED
1816-1015	02237	93415PC
1816-1018	01698	SN74S287N PROGRAMMED
1816-1019	01698	SN74S287N PROGRAMMED
1816-1020	01698	SN74S287N PROGRAMMED
1816-1021	01698	SN74S287N PROGRAMMED
1816-1022	01698	SN74S188N PROGRAMMED
1816-1023	03811	D3624A PROGRAMMED
1816-1024	03811	D3624A PROGRAMMED
1816-1025	01698	SN74S188N PROGRAMMED
1816-1026	03811	D3624A PROGRAMMED
1816-1027	03811	D3624A PROGRAMMED
1816-1028	02910	N82S141F PROGRAMMED
1816-1029	02910	N82S141F PROGRAMMED
1816-1030	02910	N82S141F PROGRAMMED
1816-1031	03799	HM1-7611-5 PROGRAMMED
1816-1032	02910	N82S123N
1816-1033	04092	6341-1J PROGRAMMED
1816-1034	04092	6341-1J PROGRAMMED
1816-1035	04092	6341-1J PROGRAMMED
1816-1036	04092	6341-1J PROGRAMMED
1816-1037	04092	6341-1J PROGRAMMED
1816-1038	04092	6341-1J PROGRAMMED
1816-1039	01698	SN74S287N PROGRAMMED
1816-1040	01698	SN74S287N PROGRAMMED
1816-1041	01698	SN74S287N PROGRAMMED
1816-1044	03406	DM74S288J PROGRAMMED
1816-1045	03406	DM74S288J PROGRAMMED
1816-1049	02910	N82S115F PROGRAMMED
1816-1050	02910	N82S115F PROGRAMMED
1816-1051	03799	HM1-7611-5 PROGRAMMED
1816-1052	03811	D3604L-6 PROGRAMMED
1816-1053	02037	MCM10144L
1816-1054	02910	N82S185F
1816-1055	01698	SN74S472N
1816-1056	03799	HPROM1-0512-5
1816-1057	03714	IM5610CPE PROGRAMMED
1816-1058	03714	IM5610CPE PROGRAMMED
1816-1059	03714	IM5610CPE PROGRAMMED
1816-1060	03811	P3604L-6 PROGRAMMED
1816-1061	03811	D3604L-6 PROGRAMMED
1816-1062	03811	D3604L-6 PROGRAMMED
1816-1063	03811	D3604L-6 PROGRAMMED
1816-1064	03811	D3624A PROGRAMMED
1816-1065	02910	N82S185I PROGRAMMED
1816-1066	03811	D3624A PROGRAMMED
1816-1067	03811	D3624A PROGRAMMED
1816-1068	01698	SN74S472N PROGRAMMED
1816-1069	01698	SN74S472N PROGRAMMED
1816-1070	01698	SN74S472N PROGRAMMED
1816-1071	01698	SN74S472N PROGRAMMED
1816-1072	01698	SN74S472N PROGRAMMED
1816-1073	02910	N82S141F PROGRAMMED
1816-1074	02910	N82S141F PROGRAMMED
1816-1075	02910	N82S141F PROGRAMMED
1816-1076	01698	SN74S474J PROGRAMMED
1816-1077	01698	SN74S474J PROGRAMMED
1816-1078	01698	SN74S474J PROGRAMMED
1816-1079	01698	SN74S474J PROGRAMMED
1816-1080	01698	SN74S474J PROGRAMMED
1816-1081	01698	SN74S474J PROGRAMMED
1816-1082	01698	SN74S474J PROGRAMMED
1816-1083	01698	SN74S474J PROGRAMMED
1816-1084	01698	SN74S474N PROGRAMMED
1816-1085	01698	SN74S474N PROGRAMMED
1816-1086	01698	SN74S474J PROGRAMMED
1816-1087	01698	SN74S474J PROGRAMMED
1816-1088	01698	SN74S188N PROGRAMMED
1816-1089	03406	DM74LS189N
1816-1090	01698	SN74S287N PROGRAMMED
1816-1091	01698	SN74S287N PROGRAMMED
1816-1093	01698	SN74S288N PROGRAMMED
1816-1094	01698	SN74S288N PROGRAMMED
1816-1095	01698	SN74S288N PROGRAMMED
1816-1096	01698	SN74S288N PROGRAMMED
1816-1097	01698	SN74S288N PROGRAMMED
1816-1098	01698	SN74S288N PROGRAMMED
1816-1099	03811	D3624A PROGRAMMED
1816-1100	03406	DM74S288J PROGRAMMED
1816-1101	03406	DM74S288J PROGRAMMED
1816-1102	03799	HM1-7611-5 PROGRAMMED
1816-1103	03714	IM5600CPE PROGRAMMED
1816-1106	02910	N82S181F PROGRAMMED
1816-1107	02910	N82S181F PROGRAMMED
1816-1108	02910	N82S181F PROGRAMMED
1816-1109	02910	N82S181F PROGRAMMED
1816-1110	02910	N82S181F PROGRAMMED
1816-1111	02910	N82S181F PROGRAMMED
1816-1112	02910	N82S181F PROGRAMMED
1816-1113	02910	N82S181F PROGRAMMED
1816-1114	02910	N82S181F PROGRAMMED
1816-1115	02910	N82S181F PROGRAMMED
1816-1116	02910	N82S181F PROGRAMMED
1816-1117	02910	N82S181F PROGRAMMED
1816-1118	02910	N82S126F PROGRAMMED
1816-1119	02910	74S387F PROGRAMMED
1816-1120	02910	N82S126F PROGRAMMED
1816-1121	03799	HM1-7611-5 PROGRAMMED
1816-1122	03799	HM1-7611-5 PROGRAMMED
1816-1123	03799	HM1-7611-5 PROGRAMMED
1816-1124	03799	HM1-7611-5 PROGRAMMED
1816-1125	03799	HM1-7611-5 PROGRAMMED
1816-1126	03799	HM1-7611-5 PROGRAMMED
1816-1137	01698	SN74S287N
1816-1141	01698	SN74188AN
1816-1142	02910	N82S141F
1816-1143	01698	SN74S287N PROGRAMMED
1816-1144	01698	SN74S471N PROGRAMMED
1816-1145	01698	SN74S472N PROGRAMMED
1816-1146	01698	SN74S287N PROGRAMMED
1816-1147	02910	N82S181F PROGRAMMED
1816-1148	01698	SN74S287N PROGRAMMED
1816-1149	01698	SN74S287N PROGRAMMED
1816-1150	01698	SN74S287N PROGRAMMED
1816-1151	01698	SN74S287N PROGRAMMED
1816-1152	03799	HM1-7641-2
1816-1153	01698	SN74S288N
1816-1154	01698	SN74S188N PROGRAMMED
1816-1155	01698	SN74S188N PROGRAMMED
1816-1156	01698	SN74S188N PROGRAMMED
1816-1157	04092	6350-1J
1816-1158	03406	DM74S288D PROGRAMMED
1816-1159	03406	DM74S288D PROGRAMMED
1816-1160	02910	N82S181F
1816-1161	03799	HM1-7611-5 PROGRAMMED
1816-1162	02910	N82S181N
1816-1163	02910	N82S141F
1816-1164	03811	D3624 PROGRAMMED
1816-1165	03811	D3624 PROGRAMMED
1816-1166	03811	D3624 PROGRAMMED
1816-1167	03811	D3624 PROGRAMMED
1816-1168	01698	SN74S288N PROGRAMMED
1816-1169	01698	SN74S288N PROGRAMMED
1816-1170	03799	HM1-7641-5 PROGRAMMED
1816-1171	02910	N82S2708 PROGRAMMED
1816-1172	02910	N82S185I PROGRAMMED
1816-1173	02910	N82S185I PROGRAMMED
1816-1174	01698	SN74S188N
1816-1175	02910	N82S131F PROGRAMMED
1816-1176	02910	N82S181N PROGRAMMED
1816-1177	02910	N82S181N PROGRAMMED
1816-1178	02910	N82S181N PROGRAMMED
1816-1179	02910	N82S181N PROGRAMMED
1816-1180	02910	N82S181N PROGRAMMED
1816-1181	02910	N82S181N PROGRAMMED
1816-1182	02910	N82S129F PROGRAMMED
1816-1183	02237	93427PC PROGRAMMED
1816-1184	03799	HM1-7641-5 PROGRAMMED
1816-1185	03799	HM1-7641-5 PROGRAMMED
1816-1186	03799	HM1-7641-5 PROGRAMMED
1816-1187	03799	HM1-7641-5 PROGRAMMED
1816-1188	03799	HM1-7603-5 PROGRAMMED
1816-1189	03714	IM5610CPE PROGRAMMED
1816-1190	03714	IM5610CPE PROGRAMMED
1816-1191	03714	IM5610CPE PROGRAMMED
1816-1192	02910	N82S181F PROGRAMMED
1816-1193	02910	N82S2708F
1816-1194	04092	6282-1J MASKED
1816-1195	02910	N82S181F PROGRAMMED
1816-1196	02910	N82S181F PROGRAMMED
1816-1197	02910	N82S181F PROGRAMMED
1816-1198	02910	N82S181F PROGRAMMED
1816-1199	01698	SN74S188N PROGRAMMED
1816-1200	02910	N82S181F PROGRAMMED
1816-1201	02910	N82S185I PROGRAMMED
1816-1202	02910	N82S185I PROGRAMMED
1816-1203	02910	N82S185I PROGRAMMED
1816-1204	02910	N82S185I PROGRAMMED
1816-1205	02910	N82S185I PROGRAMMED
1816-1206	02910	N82S185I PROGRAMMED
1816-1207	02910	N82S185I PROGRAMMED
1816-1208	02910	N82S185I PROGRAMMED
1816-1209	02910	N82S185I PROGRAMMED
1816-1210	02910	N82S185I PROGRAMMED
1816-1211	02910	N82S185I PROGRAMMED
1816-1212	02910	N82S185I PROGRAMMED
1816-1213	02910	N82S185I PROGRAMMED
1816-1214	02910	N82S185I PROGRAMMED
1816-1215	02910	N82S185I PROGRAMMED
1816-1216	02910	N82S185I PROGRAMMED
1816-1217	02910	N82S185I PROGRAMMED
1816-1218	02910	N82S185I PROGRAMMED
1816-1219	02910	N82S185I PROGRAMMED
1816-1220	02910	N82S185I PROGRAMMED
1816-1221	02910	N82S185I PROGRAMMED
1816-1222	02910	N82S185I PROGRAMMED
1816-1223	02910	N82S185I PROGRAMMED
1816-1224	02910	N82S185I PROGRAMMED
1816-1225	02910	N82S185I PROGRAMMED
1816-1226	02910	N82S185I PROGRAMMED
1816-1227	02910	N82S185I PROGRAMMED
1816-1228	02910	N82S185I PROGRAMMED
1816-1229	02910	N82S185I PROGRAMMED
1816-1230	02910	N82S185I PROGRAMMED
1816-1231	02910	N82S185I PROGRAMMED
1816-1232	02910	N82S185I PROGRAMMED
1816-1233	02910	N82S129F PROGRAMMED
1816-1234	04092	6282-1J MASKED
1816-1235	02910	N82S185I PROGRAMMED
1816-1236	02910	N82S185I PROGRAMMED
1816-1237	02910	N82S291N MASKED
1816-1238	02910	N82S131F PROGRAMMED
1816-1239	02910	N82S181N PROGRAMMED
1816-1240	02910	N82S180F
1816-1241	01698	SN74S288N PROGRAMMED
1816-1242	02910	N82S180F PROGRAMMED
1816-1243	01698	SN74S288N PROGRAMMED
1816-1244	01698	SN74S288N PROGRAMMED
1816-1245	01698	SN74S288N PROGRAMMED
1816-1246	01698	SN74S288N PROGRAMMED
1816-1247	01698	SN74S288N PROGRAMMED
1816-1248	02910	N82S181N PROGRAMMED
1816-1249	02910	N82S180F PROGRAMMED
1816-1250	02910	N82S180F PROGRAMMED
1816-1251	02910	N82S180F PROGRAMMED
1816-1252	01698	SN74S472N PROGRAMMED
1816-1253	04092	6260-1J MASKED
1816-1254	04092	6260-1J MASKED
1816-1255	02910	N82S181N PROGRAMMED
1816-1256	02910	N82S181N PROGRAMMED
1816-1257	02910	N82S181N PROGRAMMED
1816-1258	02910	N82S181N PROGRAMMED
1816-1259	02910	N82S181N PROGRAMMED
1816-1260	03799	HM1-7603-5 PROGRAMMED
1816-1261	03799	HM1-7603-5 PROGRAMMED
1816-1262	03799	HM1-7603-5 PROGRAMMED
1816-1263	03799	HM1-7603-5 PROGRAMMED
1816-1264	03799	HM1-7603-5 PROGRAMMED
1816-1265	03799	HM1-7603-5 PROGRAMMED
1816-1266	03799	HM1-7603-5 PROGRAMMED
1816-1267	03799	HM1-7603-5 PROGRAMMED
1816-1268	01698	SN74S288N PROGRAMMED
1816-1269	01698	SN74S288N PROGRAMMED
1816-1270	01698	SN74S288N PROGRAMMED
1816-1271	01698	SN74S288N PROGRAMMED
1816-1272	01698	SN74S287J PROGRAMMED
1816-1273	01698	SN74S287J PROGRAMMED
1816-1274	01698	SN74S297J PROGRAMMED
1816-1275	02910	N82S181F PROGRAMMED
1816-1276	02910	N82S181F PROGRAMMED
1816-1277	03799	HM1-7611-5 PROGRAMMED
1816-1278	03799	HM1-7611-5 PROGRAMMED
1816-1279	03799	HM1-7611-5 PROGRAMMED
1816-1280	03799	HM1-7611-5 PROGRAMMED
1816-1281	03799	HM1-7611-5 PROGRAMMED
1816-1282	03799	HM1-7611-5 PROGRAMMED
1816-1283	03799	HM1-7611-5 PROGRAMMED
1816-1284	03799	HM1-7611-5 PROGRAMMED
1816-1285	03799	HM1-7611-5 PROGRAMMED
1816-1286	03799	HM1-7611-5 PROGRAMMED
1816-1287	03799	HM1-7611-5 PROGRAMMED
1816-1288	03799	HM1-7611-5 PROGRAMMED
1816-1289	03799	HM1-7611-5 PROGRAMMED
1816-1290	03799	HM1-7611-5 PROGRAMMED
1816-1291	03799	HM1-7611-5 PROGRAMMED
1816-1292	03799	HM1-7611-5 PROGRAMMED
1816-1293	03799	HM1-7611-5 PROGRAMMED
1816-1294	03799	HM1-7611-5 PROGRAMMED
1816-1295	03799	HM1-7611-5 PROGRAMMED
1816-1296	03799	HM1-7611-5 PROGRAMMED
1816-1297	03799	HM1-7611-5 PROGRAMMED
1816-1298	03799	HM1-7611-5 PROGRAMMED
1816-1299	02910	N82S191F
1816-1300	03811	D3624A PROGRAMMED

HP P/N	Mfr.	Desc.
1816-1301	02237	93448PC PROGRAMMED
1816-1302	01698	SN74S287N PROGRAMMED
1816-1303	02237	93448PC PROGRAMMED
1816-1304	02237	93448PC PROGRAMMED
1816-1305	02237	93448PC PROGRAMMED
1816-1306	02237	93448PC PROGRAMMED
1816-1307	02237	93448PC PROGRAMMED
1816-1308	02237	93L422PC
1816-1309	02237	93L412PC
1816-1310	03799	HM1-7611-5 PROGRAMMED
1816-1311	03799	HM1-7611-5 PROGRAMMED
1816-1312	03799	HM1-7611-5 PROGRAMMED
1816-1313	01698	SN74S288J PROGRAMMED
1816-1314	04092	6282-1J MASKED
1816-1315	04092	6260-1J MASKED
1816-1321	02910	N82S115F PROGRAMMED
1816-1322	02910	N82S115F PROGRAMMED
1816-1323	02910	N82S115F PROGRAMMED
1816-1324	02910	N82S291N PROGRAMMED
1816-1325	02910	N82S291N PROGRAMMED
1816-1326	02910	N82S291N PROGRAMMED
1816-1327	02910	N82S291N PROGRAMMED
1816-1328	04092	6260-1J MASKED
1816-1329	01698	SN74S474N
1816-1330	02910	N82S115N PROGRAMMED
1816-1331	02910	N82S115N PROGRAMMED
1816-1332	02910	N82S115N PROGRAMMED
1816-1333	02910	N82S123F PROGRAMMED
1816-1334	02237	93422DC
1816-1335	02037	MCM10152L
1816-1336	02910	N82S185I PROGRAMMED
1816-1337	02910	N82S185I PROGRAMMED
1816-1338	02237	10145APC
1816-1339	03406	DM8678CAB/N
1816-1340	01698	SN74S188N PROGRAMMED
1816-1341	03406	DM74S288N PROGRAMMED
1816-1342	03406	DM74S288N PROGRAMMED
1816-1343	02910	N82S181F PROGRAMMED
1816-1344	02910	N82S181F
1816-1345	03811	D3624A PROG
1816-1346	03811	D3624A PROG
1816-1347	03811	D3624A PROG
1816-1348	03811	D3624A PROG
1816-1349	03811	D3624A PROG
1816-1350	03811	D3624A PROG
1816-1351	03714	IM5610CPE PRPGRAMMED
1816-1352	01698	SN74S288J PRGMD
1816-1353	01698	SN74S288J PRGMD
1816-1354	01698	SN74S288J PRGMD
1816-1355	01698	SN74S288N PROGD
1816-1356	01698	SN74S288N PROGRAMMED
1816-1357	01698	SN74S288N PROGRAMMED
1816-1358	01698	SN74S387N
1816-1359	04092	6241-1N MASKED
1816-1360	04092	6241-1N MASKED
1816-1361	02910	N82S181N PROGRMD
1816-1362	01698	SN74S288N PROGRMD
1816-1363	01698	SN74S288N PROGRMD
1816-1369	03799	HM1-7611-5 PROGRMD
1816-2051	04092	6200-1J MASKED
1816-2052	04092	6200-1J MASKED
1816-2053	04092	6200-1J MASKED
1816-2054	04092	6200-1J MASKED
1816-2055	04092	6200-1J MASKED
1816-2056	04092	6200-1J MASKED
1816-2057	04092	6200-1J MASKED
1816-2058	04092	6200-1J MASKED
1816-2059	04092	6200-1J MASKED
1818-0037	03811	C1702A PROGRAMMED
1818-0061	03406	MM5241ABLN
1818-0093	02237	3341DC
1818-0094	00575	PR1472B-01
1818-0095	00575	PT1482B-01
1818-0096	01698	TMS2501NC
1818-0100	03406	MM 5216 BJW/N
1818-0102	01698	TMS4103NC
1818-0103	01698	TMS4030JL
1818-0104	03811	C1802A MASKED
1818-0105	03811	C1302 MASKED
1818-0106	03406	MM5261N
1818-0107	03714	IM7512CPE
1818-0108	02037	6605L-1
1818-0114	04078	MK4096-3
1818-0115	03677	P1103A
1818-0125	02910	2526
1818-0128	03811	C2107B
1818-0130	03758	EA4900 MASKED
1818-0131	03758	FA4900 MASKED
1818-0132	03758	FA4900 MASKED
1818-0133	03758	FA4900 MASKED
1818-0134	03406	MM1101A/A1N
1818-0135	02037	MCM68A10L
1818-0140	03794	AM9112APC
1818-0141	03811	CA316A MASKED
1818-0142	03811	CA316A MASKED
1818-0143	03811	CA316A MASKED
1818-0144	03811	CA316A MASKED
1818-0145	03811	CA316A MASKED
1818-0146	01698	TMS4050JL
1818-0147	01698	TMS4050NL
1818-0152	02910	2526
1818-0155	02910	2606B
1818-0157	03758	EA4900 MASKED
1818-0158	03758	FA4900 MASKED
1818-0159	03758	EA4900 MASKED
1818-0160	03758	FA4900 MASKED
1818-0161	03758	FA4900 MASKED
1818-0162	03758	EA4900 MASKED
1818-0165	01698	TMS4060JL
1818-0167	02037	MCM6560AP MASKED
1818-0170	03811	CA316A MASKED
1818-0172	03758	FA4900 MASKED
1818-0173	03758	FA4900 MASKED
1818-0174	03758	FA4900 MASKED
1818-0175	03758	EA4900 MASKED
1818-0176	03758	EA4900 MASKED
1818-0181	01698	TMS4050-1JL
1818-0182	02037	MCM6590L MASKED
1818-0183	02037	MCM6590L MASKED
1818-0184	02037	MCM6590L MASKED
1818-0185	02037	MCM6590L MASKED
1818-0186	02037	MCM6590L MASKED
1818-0187	02037	MCM6590L MASKED
1818-0188	02037	MCM6590L MASKED
1818-0189	02037	MCM6590L MASKED
1818-0197	03794	AM91L11BDC
1818-0199	03794	AM9112APC
1818-0201	03758	FA4900 MASKED
1818-0202	03758	FA4900 MASKED
1818-0203	02910	26171 MASKED
1818-0204	03758	FA4900 MASKED
1818-0205	02910	26171 MASKED
1818-0206	02910	2617 MASKED
1818-0207	02910	26171 MASKED
1818-0208	03794	AM9216BDC MASKED
1818-0209	03794	AM9216BDC MASKED
1818-0210	03794	AM9216BDC MASKED
1818-0211	03794	AM9216BDC MASKED
1818-0212	02910	26171 MASKED
1818-0213	02910	26171 MASKED
1818-0214	03794	AM9216BDC MASKED
1818-0216	02037	MCM6832L MASKED
1818-0217	02037	MCM6832L MASKED
1818-0218	02037	MCM6832L MASKED
1818-0219	02037	MCM6832L MASKED
1818-0220	02037	MCM6832L MASKED
1818-0221	02037	MCM6590L MASKED
1818-0222	02037	MCM6590L MASKED
1818-0223	02037	MCM6590L MASKED
1818-0234	03811	C2708
1818-0236	03811	CA316A MASKED
1818-0237	02713	RO-3-2513
1818-0238	03794	AM9102APC
1818-0239	02037	MCM6590L MASKED
1818-0240	02037	MCM6590L MASKED
1818-0241	02037	MCM6590L MASKED
1818-0242	02037	MCM6590L MASKED
1818-0243	02037	MCM6590L MASKED
1818-0244	02037	MCM6590L MASKED
1818-0245	02037	MCM6590L MASKED
1818-0246	02037	MCM6590L MASKED
1818-0247	01698	TMS4060-2JL
1818-0250	03811	C2708
1818-0254	02910	2516N
1818-0255	02037	MCM6590P MASKED
1818-0256	02037	MCM6590P MASKED
1818-0257	02037	MCM6590P MASKED
1818-0258	02037	MCM6590P MASKED
1818-0259	03758	FA4900 MASKED
1818-0260	02037	MCM6590P MASKED
1818-0261	03794	AM9216BDC MASKED
1818-0263	01698	TMS4060NL
1818-0264	01795	SYC2316A MASKED
1818-0265	01795	SYC2316A MASKED
1818-0266	01795	SYC2316A MASKED
1818-0273	03794	AM9216BDC MASKED
1818-0274	03794	AM9216BDC MASKED
1818-0275	03794	AM9216BDC MASKED
1818-0276	03794	AM9216BDC MASKED
1818-0277	03794	AM2813ADC
1818-0279	02237	3341ADC
1818-0284	04078	MK31000 MASKED
1818-0285	04078	MK31000P MASKED
1818-0286	04078	MK31000P MASKED
1818-0287	02910	26171 MASKED
1818-0288	03794	AM9216BDC MASKED
1818-0289	03794	AM1702AHDC
1818-0292	03811	C1302 MASKED
1818-0294	03794	AM91L12CPC
1818-0298	03794	AM9216BDC MASKED
1818-0299	03794	AM9216BDC MASKED
1818-0300	03794	AM9216BDC MASKED
1818-0301	03794	AM9216BDC MASKED
1818-0302	03794	AM9216BDC MASKED
1818-0303	03794	AM9216BDC MASKED
1818-0304	03794	AM9216BDC MASKED
1818-0305	03794	AM9216BDC MASKED
1818-0306	03794	AM9216BDC MASKED
1818-0307	03794	AM9216BDC MASKED
1818-0308	03794	AM9216BDC MASKED
1818-0309	02037	MCM6590P MASKED
1818-0310	03794	AM9216BDC MASKED
1818-0311	03794	AM9216BDC MASKED
1818-0312	03794	AM9216BDC MASKED
1818-0313	03794	AM91L30ADC
1818-0314	02237	3851PC MASKED
1818-0315	02237	3851PC MASKED
1818-0316	02237	3851PC MASKED
1818-0317	01698	TMS4027-15JL SELCTD
1818-0318	03794	C2101-1
1818-0319	03811	P5101L-3
1818-0320	03794	P2101-2
1818-0322	03794	AM91L12APC
1818-0324	03794	AM9216BDC MASKED
1818-0326	04078	MK4096P-16
1818-0327	04078	MK4102P-6
1818-0328	02037	MCM6810AL
1818-0329	04078	MK31000N-3 MASKED
1818-0330	04078	MK31000N-3 MASKED
1818-0331	04078	MK31000N-3 MASKED
1818-0332	03811	D2115L
1818-0334	01698	TMS4027-20JL SELCTD
1818-0335	03794	AM9102APC
1818-0336	02037	MCM6572L
1818-0340	01698	TMS4116-25JL SELCTD
1818-0341	01698	TMS4116-20JL SELCTD
1818-0342	03811	P2101A-4
1818-0343	03794	AM9101CPC
1818-0344	02237	2102LHPC
1818-0352	03794	AM9216BDC MASKED
1818-0353	03794	AM9216BDC MASKED
1818-0354	03794	AM9216BDC MASKED
1818-0355	03794	AM9216BDC MASKED
1818-0356	03794	AM9216BDC MASKED
1818-0357	03794	AM9216BDC MASKED
1818-0360	03794	AM9131CDC
1818-0361	02037	MCM6832L PROGRAMMED
1818-0362	02037	MCM6832L PROGRAMMED
1818-0363	02037	MCM6832L PROGRAMMED
1818-0364	02037	MCM6832L PROGRAMMED
1818-0373	04078	MK34000P-3 MASKED
1818-0375	02037	MCM6590L MASKED
1818-0381	03794	AM9111DPC
1818-0382	03811	CA316A MASKED
1818-0383	03811	CA316A MASKED
1818-0384	03811	CA316A MASKED
1818-0385	03811	CA316A MASKED
1818-0386	03811	CA316A MASKED
1818-0389	03794	AM9130EDC
1818-0390	03714	IM6508IDE
1818-0391	01698	TMS4116-25JL SELCTD
1818-0392	03794	AM9216BDC MASKED
1818-0393	03794	AM9216BDC MASKED
1818-0395	02037	MCM6832P MASKED
1818-0396	02037	MCM6832P MASKED
1818-0397	02037	MCM6832P MASKED
1818-0398	02037	MCM6832P MASKED
1818-0400	02037	MCM6832P MASKED
1818-0401	03794	AM9216BDC MASKED
1818-0402	03794	AM9216BDC MASKED
1818-0403	03794	AM9216BDC MASKED
1818-0404	03794	AM9216BDC MASKED
1818-0405	03794	AM9216BDC MASKED
1818-0406	03794	AM9216BDC MASKED
1818-0407	03794	AM9216BDC MASKED
1818-0408	03794	AM9216BDC MASKED
1818-0409	03794	AM9216BDC MASKED
1818-0410	03794	AM9216BDC MASKED
1818-0411	03794	AM9216BDC MASKED
1818-0412	03794	AM9216BDC MASKED
1818-0413	03794	AM9216BDC MASKED
1818-0414	03794	AM9216BDC MASKED
1818-0415	03794	AM9216BDC MASKED
1818-0416	03794	AM9216BDC MASKED
1818-0417	03794	AM9216BDC MASKED
1818-0418	03794	AM9216BDC MASKED
1818-0419	03794	AM9216BDC MASKED
1818-0420	03794	AM9216BDC MASKED
1818-0421	03794	AM9216BDC MASKED
1818-0422	02237	33511DC
1818-0425	03811	P2101A-2
1818-0433	03794	AM9216BDC MASKED
1818-0434	03794	AM9216BDC MASKED
1818-0435	03794	AM9216BDC MASKED
1818-0436	03794	AM9216BDC MASKED
1818-0437	03794	AM9216BDC MASKED
1818-0438	01698	TMS4045-45JL
1818-0439	03799	HM1-6561B-9
1818-0440	03406	MM5269N
1818-0441	03794	AM9216BDC MASKED
1818-0442	03794	AM9216BDC MASKED
1818-0443	01698	TMS4045-30NL
1818-0446	03794	AM9216BDC MASKED
1818-0447	03794	AM9216BDC MASKED
1818-0448	03794	AM9216BDC MASKED
1818-0449	03811	P4002-1
1818-0451	02037	MCM6590P2 MASKED
1818-0452	01698	TMS2708JL PROGRAMMED
1818-0453	01698	TMS2708JL PROGRAMMED
1818-0454	01698	TMS2708JL PROGRAMMED
1818-0455	01698	TMS2708JL PROGRAMMED
1818-0456	01698	TMS2708JL PROGRAMMED
1818-0457	01698	TMS2708JL PROGRAMMED
1818-0458	01698	TMS2708JL PROGRAMMED
1818-0459	01698	TMS2708JL PROGRAMMED
1818-0460	01698	TMS2708JL PROGRAMMED
1818-0461	01698	TMS2708JL PROGRAMMED
1818-0462	01698	TMS2708JL PROGRAMMED
1818-0463	01698	TMS2708JL PROGRAMMED
1818-0464	01698	TMS2708JL PROGRAMMED
1818-0465	01698	TMS2708JL PROGRAMMED
1818-0466	01698	TMS2708JL PROGRAMMED
1818-0467	01698	TMS2708JL PROGRAMMED
1818-0468	01698	TMS2708JL PROGRAMMED
1818-0469	04078	MK34000N-3 MASKED
1818-0470	03406	DM2316EN MASKED
1818-0471	03406	DM2316EN MASKED
1818-0472	03406	DM2316EN MASKED
1818-0473	03406	DM2316EN MASKED
1818-0474	03406	DM2316EN MASKED
1818-0475	03406	DM2316EN MASKED
1818-0476	03794	AM9216CDC MASKED
1818-0477	03794	AM9216BDC MASKED
1818-0478	03794	AM9216BDC MASKED
1818-0479	03794	AM9216BDC MASKED
1818-0480	03794	AM9216BDC MASKED
1818-0481	03794	AM9216BDC MASKED
1818-0482	03794	AM9216BDC MASKED
1818-0483	03794	AM9216BDC MASKED
1818-0484	03794	AM9216BDC MASKED
1818-0485	03794	AM9216BDC MASKED
1818-0486	03794	AM9216BDC MASKED
1818-0491	01698	TMS27L08JL
1818-0492	03811	P2114-2
1818-0493	07810	TMS3884NL MASKED
1818-0494	02037	MCM14524CP MASKED
1818-0495	03794	AM9216CDC MASKED
1818-0496	02037	MCM14524CP MASKED
1818-0497	03799	HM-6551-9DIP
1818-0498	01698	TMS2516JL

HP P/N	Mfr.	Desc.
1818-0499	03406	MM5241N MASKED
1818-0500	03794	AM9216CDC MASKED
1818-0501	03794	AM9216BDC MASKED
1818-0502	03794	AM9216BDC MASKED
1818-0503	03794	AM9216BDC MASKED
1818-0504	03794	AM9216BDC MASKED
1818-0505	02910	2607N MASKED
1818-0506	02910	2607N MASKED
1818-0507	02910	2607N MASKED
1818-0508	03406	MM5280N-5
1818-0509	01698	TMS4116-15JL SELCTD
1818-0510	02037	MCM6590P2 MASKED
1818-0512	03794	AM9216BDC MASKED
1818-0513	03794	AM9216BDC MASKED
1818-0514	02037	MCM6670P MASKED
1818-0515	03794	AM9218CDC MASKED
1818-0516	03794	AM9218CDC MASKED
1818-0517	03794	AM9218CDC MASKED
1818-0518	03794	AM9218CDC MASKED
1818-0519	03794	AM9218CDC MASKED
1818-0520	03794	AM9218CDC MASKED
1818-0521	03794	AM9218CDC MASKED
1818-0522	03794	AM9218CDC MASKED
1818-0523	03794	AM9218CDC MASKED
1818-0524	03794	AM9218CDC MASKED
1818-0525	03794	AM9218CDC MASKED
1818-0526	03794	AM9218CDC MASKED
1818-0527	03794	AM9218CDC MASKED
1818-0528	03794	AM9218CDC MASKED
1818-0529	03794	AM9218CDC MASKED
1818-0530	03794	AM9218CDC MASKED
1818-0531	02910	2607F MASKED
1818-0532	02037	MCM68332P MASKED
1818-0533	03794	AM9216BDC MASKED
1818-0534	03794	AM9216BDC MASKED
1818-0535	01795	SYP2332 MASKED
1818-0536	01795	SYP2332 MASKED
1818-0537	01795	SYP2332 MASKED
1818-0538	01795	SYP2332 MASKED
1818-0539	01795	SYP2332 MASKED
1818-0540	01795	SYP2332 MASKED
1818-0541	01795	SYP2332 MASKED
1818-0542	01795	SYP2332 MASKED
1818-0543	01795	SYP2332 MASKED
1818-0544	01795	SYP2332 MASKED
1818-0545	01795	SYP2332 MASKED
1818-0546	01795	SYP2332 MASKED
1818-0547	03794	AM9216BDC MASKED
1818-0548	03794	AM9216BDC MASKED
1818-0549	03794	AM9216BDC MASKED
1818-0552	03794	AM9216BDC MASKED
1818-0553	03811	P2112A
1818-0554	03811	C2708 PROGRAMMED
1818-0555	03811	C2708 PROGRAMMED
1818-0556	03811	C2708 PROGRAMMED
1818-0557	03811	C2708 PROGRAMMED
1818-0558	03811	C2708 PROGRAMMED
1818-0559	03811	C2708 PROGRAMMED
1818-0560	03811	C2708 PROGRAMMED
1818-0561	03811	C2708 PROGRAMMED
1818-0562	03811	P2114L3
1818-0564	03794	AM9216BDC MASKED
1818-0565	03799	HM1-6611-9 PROGRAMMI
1818-0566	02713	FR2051
1818-0567	03794	AM9218CDC MASKED
1818-0568	03794	AM9218CDC MASKED
1818-0569	03794	AM9218CDC MASKED
1818-0570	03794	AM9218CDC MASKED
1818-0571	03811	C8316A MASKED
1818-0572	03811	C8316A MASKED
1818-0573	02037	MCM68317L MASKED
1818-0574	02037	MCM68317L MASKED
1818-0575	02037	MCM68317L MASKED
1818-0576	02037	MCM68317L MASKED
1818-0577	02037	MCM68317L MASKED
1818-0578	02037	MCM68308P MASKED
1818-0579	03811	C8316A MASKED
1818-0580	03794	AM9216BDC MASKED
1818-0581	03794	AM9216BDC MASKED
1818-0582	03794	AM9216BDC MASKED
1818-0583	03794	AM9216BDC MASKED
1818-0584	03794	AM9216BDC MASKED
1818-0585	03794	AM9216BDC MASKED
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1818-0590	03794	AM9216BDC MASKED
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1818-0599	03794	AM9216BDC MASKED
1818-0600	03794	AM9216BDC MASKED
1818-0601	03794	AM9216BDC MASKED
1818-0602	03794	AM9216BDC MASKED
1818-0603	03794	AM9216BDC MASKED
1818-0604	03794	AM9216BDC MASKED
1818-0605	03794	AM9216BDC MASKED
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1818-0613	03794	AM9216BDC MASKED
1818-0614	03794	AM9216BDC MASKED
1818-0615	03794	AM9216BDC MASKED
1818-0616	03794	AM9216BDC MASKED
1818-0617	03794	AM9216BDC MASKED
1818-0618	03794	AM9216BDC MASKED
1818-0619	03794	AM9216BDC MASKED
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1818-0622	03794	AM9216BDC MASKED
1818-0623	03794	AM9216BDC MASKED
1818-0624	03794	AM9216BDC MASKED
1818-0625	03794	AM9216BDC MASKED
1818-0626	03794	AM9216BDC MASKED
1818-0627	03794	AM9216BDC MASKED
1818-0628	03794	AM9216BDC MASKED
1818-0629	03794	AM9216BDC MASKED
1818-0630	04183	SCM70401
1818-0631	03183	1AA2-6001 MASKED
1818-0632	03183	1AA2-6001 MASKED
1818-0633	03183	1AA2-6001 MASKED
1818-0634	03183	1AA2-6001 MASKED
1818-0635	03183	1AA2-6001 MASKED
1818-0636	03183	1AA2-6001 MASKED
1818-0637	03183	1AA2-6001 MASKED
1818-0638	03183	1AA2-6001 MASKED
1818-0639	03183	1AA2-6001 MASKED
1818-0640	03183	1AA2-6001 MASKED
1818-0641	03183	1AA2-6001 MASKED
1818-0642	03183	1AA2-6001 MASKED
1818-0643	03811	P2114L
1818-0644	01795	SYP2332 MASKED
1818-0645	01795	SYP2332 MASKED
1818-0646	01795	SYP2332 MASKED
1818-0647	01795	SYP2332 MASKED
1818-0648	01795	SYP2332 MASKED
1818-0649	01795	SYP2332 MASKED
1818-0650	01795	SYP2332 MASKED
1818-0651	01795	SYP2332 MASKED
1818-0652	03183	1AC1-9XXX MASKED
1818-0653	03183	1AC1-9XXX MASKED
1818-0654	03794	AM9216BDC MASKED
1818-0655	03794	AM9216BDC MASKED
1818-0656	03794	AM9216BDC MASKED
1818-0657	03794	AM9216BDC MASKED
1818-0658	03794	AM9216BDC MASKED
1818-0659	03794	AM9216BDC MASKED
1818-0660	03183	1AC2-9XXX MASKED
1818-0661	03183	1AC2-9XXX MASKED
1818-0662	03183	1AC2-9XXX MASKED
1818-0663	03183	1AC2-9XXX MASKED
1818-0664	03183	1AC2-9XXX MASKED
1818-0665	03183	1AC2-9XXX MASKED
1818-0666	03183	1AC2-9XXX MASKED
1818-0667	03183	1AC2-9XXX MASKED
1818-0668	03794	AM9218CDC MASKED
1818-0670	03183	1AC1-9XXX MASKED
1818-0671	03183	1AC1-9XXX MASKED
1818-0672	03183	1AC1-9XXX MASKED
1818-0673	03183	1AC1-9XXX MASKED
1818-0674	03183	1AC1-9XXX MASKED
1818-0675	03183	1AC1-9XXX MASKED
1818-0676	03183	1AC1-9XXX MASKED
1818-0677	03183	1AC1-9XXX MASKED
1818-0678	03183	1AC1-9XXX MASKED
1818-0679	03183	1AC1-9XXX MASKED
1818-0680	03183	1AC1-9XXX MASKED
1818-0681	03183	1AC1-9XXX MASKED
1818-0682	03183	1AC1-9XXX MASKED
1818-0683	03183	1AC1-9XXX MASKED
1818-0684	03183	1AC1-9XXX MASKED
1818-0685	03183	1AC1-9XXX MASKED
1818-0686	03183	1AC1-9XXX MASKED
1818-0687	03183	1AC1-9XXX MASKED
1818-0688	03183	1AC1-9XXX MASKED
1818-0689	03183	1AC1-9XXX MASKED
1818-0690	02037	MCM68332P MASKED
1818-0691	02037	MCM68332P MASKED
1818-0692	02037	MCM68332P MASKED
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1818-0698	01795	SYC316A MASKED
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1818-0700	02037	MCM6581P
1818-0701	02037	MCM6810P
1818-0702	01795	SY2332 MASKED
1818-0703	01795	SY2332 MASKED
1818-0704	01795	SY2332 MASKED
1818-0705	01795	SY2332 MASKED
1818-0706	01795	SYP2316A MASKED
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1818-0710	01795	SYP2316B MASKED
1818-0711	02910	2616N MASKED
1818-0712	01795	SYC2316B MASKED
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1818-0736	02037	MCM68332P MASKED
1818-0739	03406	MM5244J PROGRAMMED
1818-0740	03406	MM5244J PROGRAMMED
1818-0741	03406	MM5244J PROGRAMMED
1818-0742	03406	MM5244J PROGRAMMED
1818-0743	01698	TMS2716JL
1818-0744	03714	P2332 MASKED
1818-0745	03406	MM5244J PROGRAMMED
1818-0746	03794	AM9216BDC MASKED
1818-0747	03794	AM9216BDC MASKED
1818-0748	03794	AM9216BDC MASKED
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1818-0750	01698	TMS2708JL PROGRAMMED
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1818-0752	01698	TMS2708JL PROGRAMMED
1818-0753	03406	MM74C920N
1818-0754	03406	MM74C910N
1818-0755	03794	AM9216BDC MASKED
1818-0756	02910	2607N MASKED
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1818-0758	03794	AM9216BDC MASKED
1818-0759	03794	AM9216BDC MASKED
1818-0760	03794	AM9216BDC MASKED
1818-0761	03794	AM9216BDC MASKED
1818-0762	01698	TMS2532JL
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1818-0765	03794	AM9216BDC MASKED
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1818-0769	03794	AM9216BDC MASKED
1818-0770	03811	C8316A
1818-0772	03811	D2115A
1818-0773	01795	SYP2316B MASKED
1818-0774	02713	RO-3-9316-B
1818-0775	02713	RO-3-9316-B
1818-0776	02713	RO-3-9316-B
1818-0777	02713	RO-3-9316-B
1818-0778	03811	C2708 PROGRAMMED
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1818-0780	03811	C2708 PROGRAMMED
1818-0781	03811	C2708 PROGRAMMED
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1818-0785	03811	C2708 PROGRAMMED
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1818-0789	02037	MCM6832L MASKED
1818-0790	02037	MCM6832L MASKED
1818-0791	02037	MCM6832L MASKED
1818-0792	02037	MCM6832L MASKED
1818-0793	01795	SYP2332 MASKED
1818-0794	03811	C2716
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1818-0800	03811	P2332 MASKED
1818-0801	03811	P2332 MASKED
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1818-0818	03811	P2332 MASKED
1818-0819	03811	P2332 MASKED
1818-0820	03811	P2332 MASKED
1818-0821	03811	P2332 MASKED
1818-0822	03811	P2332 MASKED
1818-0849	02037	MCM2147C-70
1818-0850	03811	B2732
1818-0851	03811	B2716-1
1818-0852	01698	2516
1818-0853	01698	2516
1818-0854	03794	AM9216BDC MASKED
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1818-0856	01698	TMS2516JL PROG
1818-0857	01698	TMS2516JL PROG
1818-0858	01698	TMS2516JL PROG
1818-0859	01698	TMS2516JL PROG
1818-0860	01698	TMS2516JL PROG
1818-0861	01698	TMS2516JL PROG
1818-0862	01698	TMS2516JL PROG
1818-0863	01698	TMS2516JL PROG
1818-0864	01698	TMS2516JL PROG
1818-0865	01698	TMS2516JL PROG
1818-0866	01698	TMS2516JL PROG
1818-0867	01698	TMS2516JL PROG
1818-0868	01698	TMS2516JL PROG
1818-0869	01698	TMS2516JL PROG
1818-0870	01698	TMS2516JL PROG
1818-0871	01698	TMS2516JL PROG
1818-0885	04078	MK36000N-4 MSKD
1818-0886	03811	B2708 PROGRAMMED
1818-0887	03811	B2708 PROGRAMMED
1818-0888	03811	B2708 PROGRAMMED

HP P/N	Mfr.	Desc.
1818-0889	03811	8270A PROGRAMMED
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1818-0891	03183	1AA2-6199 MASKED
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1818-0894	01698	TMS4732NL
1818-0895	03811	P2142
1818-0896	02713	80-3-9316 MASKED
1818-0897	02713	80-3-9316 MASKED
1818-0898	02713	80-3-9316 MASKED
1818-0899	02713	80-3-9316 MASKED
1818-0900	02713	80-3-9316 MASKED
1818-0901	02713	80-3-9316 MASKED
1818-0902	02713	80-3-9316 MASKED
1818-0903	02713	80-3-9316 MASKED
1818-0904	02713	80-3-9316 MASKED
1818-0905	02713	80-3-9316 MASKED
1818-0906	02713	80-3-9316 MASKED
1818-0907	02713	80-3-9316 MASKED
1818-0908	02713	80-3-9316 MASKED
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1818-0910	02713	80-3-9316 MASKED
1818-0911	02713	80-3-9316 MASKED
1818-0912	02037	MCM6570HL
1818-0913	03794	AM91244PC
1818-0914	03794	AM9218BDC3197 MSKD
1818-0915	03794	AM9218BDC3197 MSKD
1818-0916	03794	AM9218BDC3197 MSKD
1818-0917	03794	AM9218BDC3197 MSKD
1818-0918	03794	AM9218BDC3197 MSKD
1818-0919	03794	AM9218BDC3197 MSKD
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1818-0923	02910	2616N MASKED
1818-0924	02910	2616N MASKED
1818-0925	02910	2616N MASKED
1818-0926	02910	2616N MASKED
1818-0927	03811	P2332 MASKED
1818-0928	03811	P2332 MASKED
1818-0929	03811	P2332 MASKED
1818-0930	03811	P2332 MASKED
1818-0931	02910	2616N MASKD
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1818-0933	02910	2616N MASKD
1818-0934	02910	2616N MASKD
1818-0935	02910	2616 MASKED
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1818-0939	02910	2616N MASKED
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1818-0955	03799	HM3-6514-9
1818-0956	03794	AM9216BDC MASKD
1818-0957	03794	AM9218CDC MASKD
1818-0958	03794	AM9218CDC MASKD
1818-0959	03794	AM9218CDC MASKD
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1818-0976	02910	2632N
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1820-0001	01973	4JX19A555
1820-0006	01973	4JX19A519
1820-0010	01973	4JX19A581
1820-0012	02037	MC351G
1820-0013	02037	MC352G
1820-0014	02037	MC353G
1820-0015	02037	MC354G
1820-0016	02037	MC355G
1820-0017	02037	MC356G
1820-0018	02037	MC364G
1820-0019	02037	MC359G
1820-0020	02037	MC360G
1820-0021	02037	MC361G
1820-0022	02037	MC362G
1820-0032	02237	952PC
1820-0033	02237	953PC
1820-0034	02237	954PC
1820-0035	02237	955PC
1820-0036	02237	956PC
1820-0037	02237	957PC
1820-0038	02237	964PC
1820-0039	02237	965PC
1820-0040	02237	966PC
1820-0041	02237	967PC
1820-0043	02237	968PC
1820-0044	01973	PA1A
1820-0045	02237	971PC
1820-0046	01921	CA3005
1820-0047	01921	CA3010
1820-0048	02237	941HC
1820-0049	02237	914HC
1820-0050	02037	MC1531G
1820-0051	02237	702HC
1820-0052	02237	923HC
1820-0054	01698	SN7400N
1820-0055	01698	SN7490AN
1820-0056	01698	SN7492AN
1820-0058	01991	TOA 2709V
1820-0059	02910	SP620A
1820-0062	02037	MC364G SELECTED
1820-0063	01698	SN7451N
1820-0065	01698	SN7470N
1820-0067	02910	SP631N
1820-0068	01698	SN7410N
1820-0069	01698	SN7420N
1820-0070	01698	SN7430N
1820-0071	01698	SN7440N
1820-0072	01698	SN7450N
1820-0073	01698	SN7451N
1820-0074	01698	SN7454N
1820-0075	01698	SN7473N
1820-0076	01698	SN7476N
1820-0077	01698	SN7474N
1820-0078	02910	SP620N
1820-0080	02037	MC810G
1820-0081	02237	911HC
1820-0083	01698	SN7510L
1820-0084	01698	SN7453N
1820-0085	01698	SN7460N
1820-0086	01698	SN15830N
1820-0087	02037	MC850P
1820-0088	01698	SN15821N
1820-0094	01698	SN15846N
1820-0095	01698	SN15849N
1820-0096	01698	SN15832N
1820-0099	01698	SN7493N
1820-0100	02037	MC7441AP
1820-0101	02037	MC1034P
1820-0102	02037	MC1013P
1820-0103	01921	CA3015A
1820-0104	03406	LM201H
1820-0106	02037	MC816P
1820-0110	02237	959DC
1820-0111	02037	MC8301P
1820-0113	01991	TOA3709V
1820-0114	01973	PA238
1820-0115	02037	MC1430P
1820-0121	02910	N8T90N
1820-0122	02037	MC953P
1820-0123	03406	LM300H
1820-0125	02237	711HC
1820-0127	02237	9002DC
1820-0128	01698	SN15837N
1820-0129	02237	9003DC
1820-0130	02237	9004DC
1820-0131	02237	9009DC
1820-0132	02237	9016DC
1820-0133	01991	TIC6000BV
1820-0134	02237	9300PC
1820-0137	01921	CA3028A
1820-0138	03545	552
1820-0140	02037	MC3026P
1820-0141	02037	MC3001P
1820-0142	02037	MC1004P
1820-0143	02037	MC1027P
1820-0144	02037	MC1018P
1820-0145	02037	MC1010P
1820-0146	02037	MC1017P
1820-0147	02037	MC1007P
1820-0157	02037	MC1023P
1820-0158	03406	LM302H
1820-0160	02037	MC1431P
1820-0162	03406	LM709H
1820-0174	01698	SN7404N
1820-0175	01698	SN7405N
1820-0180	02037	MC1015P
1820-0181	02037	MC1433L
1820-0186	02237	9856DC
1820-0187	02237	9852DC
1820-0192	01921	CA 3001
1820-0195	02910	N8T80N
1820-0196	02037	MC1723CG
1820-0197	02237	709AHM
1820-0200	02037	MC1030P
1820-0201	02037	MC1439G
1820-0202	02910	SP322B
1820-0203	01921	CA741CT
1820-0204	02037	MC3000P
1820-0205	02037	MC3003P
1820-0207	02037	MC8601P
1820-0208	02910	N8H26N
1820-0211	01698	TMS3002LR
1820-0212	02037	MC1020P
1820-0213	02037	MC1014P
1820-0214	01698	SN7442AN
1820-0218	03285	106A
1820-0223	02037	MLM301AG
1820-0224	03406	LH0002CH
1820-0225	03406	LM103-2.4
1820-0231	02237	9316PC
1820-0233	01698	SN74193N
1820-0235	02037	MC1031P
1820-0238	02037	MC1810P
1820-0239	02037	MC3002P
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1820-0242	03406	LM301AH, 22V
1820-0247	03406	LM305H
1820-0249	01921	CA3051
1820-0252	02037	MC1026P
1820-0253	02037	MC1035P
1820-0256	01698	SN15858N
1820-0257	02037	MC857P
1820-0258	01698	SN15862N
1820-0259	02037	MC840P
1820-0260	02037	MC839P
1820-0261	01698	SN74121N
1820-0262	03406	DM8590N
1820-0269	01698	SN7403N
1820-0270	02237	733HC
1820-0272	02037	MC1022P
1820-0273	02037	MC1806P
1820-0274	02037	MC1808P
1820-0275	02037	MC1039P
1820-0276	02037	MC1033P
1820-0277	02037	MC1460G
1820-0279	01698	TIXL105
1820-0281	01698	SN74107N
1820-0282	01698	SN7486N
1820-0287	02037	MC672P
1820-0288	02037	MC662P
1820-0294	02237	74164PC
1820-0297	01921	CA3000
1820-0298	01921	CA3020
1820-0301	01698	SN7475N
1820-0302	02910	SP670N
1820-0303	02910	SP680N
1820-0304	01698	SN7476N
1820-0305	01698	SN7483AN
1820-0306	01921	CA3028A
1820-0307	01698	SN15836N
1820-0308	01698	SN15848N
1820-0309	02237	960DC
1820-0310	01698	SN15862N
1820-0313	02237	931HC
1820-0315	02237	951HC
1820-0316	02037	MC1433G
1820-0317	02037	MC1433P
1820-0318	02910	SP616N
1820-0319	02910	SP629N
1820-0320	02910	SP659N
1820-0321	01698	SN72710L
1820-0322	02910	N8280N
1820-0323	02037	MC889P
1820-0324	02037	MC824P
1820-0325	02037	MC815P
1820-0326	01921	CA3029
1820-0327	01698	SN7401N
1820-0328	01698	SN7402N
1820-0330	02237	9000DC
1820-0331	02237	9001DC
1820-0332	02237	9005DC
1820-0333	02237	9006DC
1820-0334	02237	9007DC
1820-0335	02237	9008DC
1820-0336	02237	9020DC
1820-0338	02237	9022DC
1820-0340	02237	9093DC
1820-0341	01698	SN158094N
1820-0342	01698	SN158097N
1820-0343	02237	9099DC
1820-0344	02237	9111DC
1820-0345	01698	SN15831N
1820-0346	01698	SN15833N
1820-0347	02237	936DC
1820-0348	01698	SN15844N
1820-0349	01698	SN15849N
1820-0350	01698	SN15861N
1820-0351	01698	SN15863N
1820-0352	01921	CA3018
1820-0355	02237	UA710HC
1820-0357	02237	9304PC
1820-0361	01698	SN4935N
1820-0362	01698	SN7480N
1820-0363	01698	SN7482N
1820-0364	01698	SN7491AN
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1820-0373	01698	SN74H20N
1820-0374	01698	SN74H21N
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1820-0376	01698	SN74H40N
1820-0377	01698	SN74H50N
1820-0378	01698	SN74H51N
1820-0379	01698	SN74H52N
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1820-0383	01698	SN74H60N
1820-0384	01698	SN74H61N
1820-0385	01698	SN74H62N
1820-0386	01698	SN74H71N
1820-0387	01698	SN74H72N
1820-0391	01698	SN74H73N
1820-0392	01698	SN74H78N
1820-0396	01698	TL702CN
1820-0397	01698	SN72709N
1820-0398	01698	SN72710N
1820-0400	02910	N8281N
1820-0408	02237	727HL
1820-0410	03406	MM507
1820-0411	02037	MC817P
1820-0417	01921	CA3002
1820-0418	02037	MC1812P
1820-0419	02910	S8280N
1820-0424	01698	SN74H04N
1820-0425	01698	SN74100N
1820-0427	02037	MC1496G
1820-0429	02910	LM309H

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1820-0430	02237	LM309K
1820-0433	01921	CA3023
1820-0435	01698	SN74180N
1820-0437	02037	MC4015P
1820-0439	02237	723PC
1820-0440	02037	MC1016P
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1820-1328	02037	MC14526BCP
1820-1329	02037	MC14515BCP
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1820-1355	02037	MC14532BCP
1820-1356	02037	MC14528BCP
1820-1357	03406	AM3705CD
1820-1358	02237	93L34PC
1820-1359	02037	MC10174P
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1820-1542	01921	CD4049AF
1820-1543	01921	CD4050AF
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1820-1553	01921	CD4019AF
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1820-1619	02037	MC14025UBCP
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1820-1627	03406	MM74C02N
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1820-1665	01921	CD4099BE
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1820-1667	01921	CD4060AE
1820-1668	01698	SN74LS74J
1820-1669	01698	SN75452BL
1820-1670	02237	75492PC
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1820-1686	02037	MC10103P
1820-1687	02037	MC3443P
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1820-1693	02037	MC14508BCL
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1820-1700	02237	74LS174PC
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1820-1721	02037	MC14549BCP
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1820-1745	02037	MC14001BCP
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1820-1747	02037	MC14011BCP
1820-1750	01698	SN54LS123J
1820-1752	02237	93L10PC
1820-1753	03406	MM74C74N
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1820-1756	03406	MM5312N
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1820-1792	01698	SN74285N
1820-1793	01698	SN74116N
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1820-1799	01698	SN54LS02J
1820-1800	01698	SN75422BJG
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1820-1803	01698	SN5400J
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1820-1834	02237	11C70DC
1820-1837	03406	DA1201CD
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1820-1842	02037	MC3442P
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1820-1845	03406	DS8834N
1820-1849	02023	MM5873
1820-1850	02037	MC14560BCP
1820-1851	03794	AM74LS148N
1820-1852	02037	MC1697P
1820-1854	02237	34702DC
1820-1855	02037	MC14534BCP
1820-1856	03285	AD563KD/BCD
1820-1857	03406	DM8555N
1820-1858	01698	SN74LS377N
1820-1859	01698	SN74LS280N
1820-1862	02910	82S41A
1820-1863	02910	RT98B
1820-1864	03811	P3212
1820-1865	03794	AM25LS08PC
1820-1866	03794	AM25LS07PC
1820-1867	03794	AM25LS09PC
1820-1868	01698	SN74S197N
1820-1869	01698	SN74S196N
1820-1870	03406	DS8839N
1820-1871	01698	SN74S283N
1820-1872	03406	DM81LS96N
1820-1873	03406	DM81LS98N
1820-1874	03406	DM8550N
1820-1875	02910	RT38N
1820-1876	03794	AM74S161N
1820-1877	03794	AM74S160N
1820-1878	01698	SN5423J
1820-1879	01698	SN54LS00J
1820-1880	01698	SN54LS27J
1820-1881	01921	CD4097BF
1820-1882	02037	MC10113L
1820-1884	02910	NAT97N
1820-1885	03406	DM74LS173N
1820-1887	01698	SN75361AP
1820-1888	02037	MC12013L
1820-1890	01698	SN74LS258AN
1820-1897	01921	CD4024AF
1820-1898	01921	CD4021AF
1820-1899	01921	CD4516BF
1820-1900	01921	CD4520BF
1820-1903	02237	9368PC
1820-1905	02237	74LS290PC
1820-1906	02237	34009BDC
1820-1907	02037	MC14077BCL
1820-1908	02037	MC14070BCL
1820-1909	02037	MC14075BCL
1820-1910	02037	MC14073BCL
1820-1911	00575	TP16024-05
1820-1912	02037	MC14042BCP
1820-1915	02037	MC1204L
1820-1917	01698	SN74LS240N
1820-1918	01698	SN74LS241N
1820-1919	00039	UPD8255AD
1820-1920	00039	UPD8228D
1820-1921	03794	D8224
1820-1922	01698	SN74LS166N
1820-1924	02910	NAT93N
1820-1925	01921	CD4040AF
1820-1927	02237	9541PC
1820-1928	02237	3850PC
1820-1930	02037	MC14078BCP
1820-1931	02037	MC14068BCP
1820-1932	02037	MC14538BCP
1820-1933	03406	MM74C74J
1820-1934	02180	DAC-08EQ
1820-1935	03406	MM74C905J
1820-1936	02037	MC14093BCL
1820-1937	03406	MM74C83J
1820-1941	03406	LF13201N
1820-1942	01698	SN74S163J
1820-1943	01698	SN74S169J
1820-1944	02037	MC10130L
1820-1945	02037	MC10115L
1820-1946	02037	MC10117L
1820-1947	02037	MC14490FP
1820-1948	01698	TL607CP
1820-1949	01698	SN74L154N
1820-1950	02037	MC10212P
1820-1955	01921	CD4008BE
1820-1956	01921	CD4042BE
1820-1957	01921	CD4511BE
1820-1958	01921	CD4016BE
1820-1959	01921	CD4508BE
1820-1960	02037	MC14012BCP
1820-1961	02037	MC14023BCP
1820-1962	02037	MC14028BCP
1820-1963	01921	CD4013BAE
1820-1964	01921	CD4027BE
1820-1965	02037	MC14025BCP
1820-1968	03794	AM9354BPC
1820-1970	02037	MC14071BCP
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1820-1973	01698	TL604IP
1820-1974	01698	SN74S181J
1820-1975	01698	SN74LS165N
1820-1976	01921	CD4050BE
1820-1977	02037	MC12061P
1820-1978	03794	AM25L04PC
1820-1979	02237	9368PC
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1820-1981	03794	AM25S09PC
1820-1982	01698	SN75363N
1820-1984	03285	AD561KD
1820-1985	03406	DM8556BD
1820-1986	03406	LF13202N
1820-1987	01698	SN74LS299N
1820-1988	03406	AH0019CD
1820-1989	02237	74LS393PC
1820-1990	02037	MC10100L
1820-1991	01698	SN74LS390N
1820-1992	03794	AM25LS160PC
1820-1993	02037	MC10158L
1820-1994	01698	SN74LS243N
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1820-1997	01698	SN74LS374N
1820-2001	03406	MM5307AHN
1820-2002	02237	9370PC
1820-2005	00039	UPD8253D
1820-2006	03794	AM9080A-4DC
1820-2007	01698	SN74365N
1820-2008	02037	MC14015BCP
1820-2009	02237	4049BPC
1820-2013	02037	MC14021BCP
1820-2014	02037	MC14069UBCP
1820-2015	02037	MC14070BCP
1820-2016	02237	9401PC
1820-2017	01921	CD4085BF
1820-2018	01921	CD4086BF
1820-2019	02037	MC14584BCP
1820-2020	02634	UDN-5707A
1820-2021	02037	MC14520BCP
1820-2023	02037	MC10197P
1820-2024	01698	SN74LS244N
1820-2025	03714	ICL7101CPL
1820-2026	01698	SN74LS396N
1820-2027	02237	3853PC
1820-2030	02037	MC6828P
1820-2031	02037	MC14021BCP
1820-2032	02237	4104PC
1820-2033	02037	MC14561BCP
1820-2035	03811	P3205
1820-2036	02037	MC6875P
1820-2037	02037	MC14081BCP
1820-2038	03406	MM74C90J
1820-2039	03794	AM8224-4PC
1820-2040	03406	MM5315N
1820-2041	03406	DS3612N
1820-2042	01698	SN54LS221J
1820-2043	01698	SN54197J
1820-2044	01698	SN75461P
1820-2046	01698	SN74LS353N
1820-2047	01590	SP8622BDG
1820-2049	02037	SN74LS196N
1820-2050	02037	MC14525BCP
1820-2051	02037	MC14528BCL
1820-2053	02910	74LS154N
1820-2054	02037	MC14040BCL
1820-2055	02037	MC14015BCL
1820-2056	01698	SN74LS378N
1820-2060	00039	UPD369D
1820-2063	01698	AC5954N-01P
1820-2064	01698	SN54LS174J
1820-2065	03406	MM74C151N
1820-2066	02037	MC10178L
1820-2067	02037	MC10162L
1820-2068	01698	SN74LS325N
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1820-2070	03811	D4289
1820-2071	03811	D4201
1820-2072	03811	P4265
1820-2073	03811	P4269
1820-2074	03811	P8085A
1820-2075	01698	SN74LS245N
1820-2076	03811	D3242
1820-2077	03406	DP8212N
1820-2078	01698	SN74LS490N
1820-2079	02037	MC14002BCP
1820-2080	02037	MC14035BCP
1820-2081	02037	MC68A21P
1820-2082	01698	SN5442AJ
1820-2083	02237	4029BPC
1820-2084	02037	MC14018BCP
1820-2085	02237	4019BPC
1820-2086	02037	MC14006BCP
1820-2087	03714	IM6402CDL
1820-2088	02237	9613TC
1820-2089	02237	9612TC
1820-2090	02037	MC14082BCP
1820-2091	02037	MC14075BCP
1820-2092	01698	TMS3129NC
1820-2093	02237	F10019DC
1820-2094	02237	9616PC
1820-2095	02237	9627PC
1820-2096	01698	SN74LS393N
1820-2097	02037	MC14543BCP
1820-2098	03406	DM8099N
1820-2099	02037	MC6802P
1820-2100	02237	3861EPC
1820-2102	01698	SN74LS373N
1820-2103	03794	DS0056CN
1820-2104	01698	SN74LS242N
1820-2106	02237	F11C06DC
1820-2107	02037	SN74LS00N
1820-2108	02910	NAT31N
1820-2109	03811	C8253
1820-2110	01698	SN75477P
1820-2111	01698	SN75468N
1820-2113	02037	MC68488L
1820-2114	02237	FCM7002PC
1820-2117	02237	9636ATC
1820-2118	02237	96S02PC
1820-2120	03794	AM25LS14DC
1820-2121	01698	SN74LS348N
1820-2124	02037	MC14073BCP
1820-2125	02237	40163BPC
1820-2126	03406	MM5313N(76+)
1820-2127	01698	SN74276N
1820-2128	01698	SN75116N
1820-2129	02634	UHP-407
1820-2130	02634	ULN-2074B
1820-2132	03714	ICM7218A
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1820-2136	03406	DS8973N
1820-2137	02037	MC68A00P
1820-2138	03406	DS8871N
1820-2140	02237	11C05DC
1820-2141	01698	SN75498N
1820-2142	03811	P8048 MASKED
1820-2143	03811	P8257
1820-2144	02037	MC3448P
1820-2145	02037	MC3447P
1820-2148	02037	MC68488L
1820-2149	01876	A234B
1820-2150	03811	D8279-5
1820-2151	02037	MC6802L
1820-2152	02237	3870PC PROGRAMMED
1820-2153	02237	3870PC PROGRAMMED
1820-2154	02237	3816PC
1820-2155	02910	2651I
1820-2156	03406	MM74C922N
1820-2157	02037	MC3450P
1820-2158	02037	MC3452P
1820-2159	01698	SN75117P
1820-2161	03406	DS8835N
1820-2163	02910	2652I
1820-2164	01698	SN74120N
1820-2165	02037	MC6881P/MC3449P
1820-2166	02037	MC14412VP
1820-2167	02037	MC10576F
1820-2168	03794	AM2502PC
1820-2170	02634	ULN-2064B
1820-2172	02237	3852PC
1820-2173	02237	3854PC
1820-2174	03406	DS3631N
1820-2175	02037	MC6852CP
1820-2177	03811	P8243
1820-2179	01698	SN7405J
1820-2180	02037	MC68A21L
1820-2181	01698	SN75417NE
1820-2184	04092	74S373N
1820-2185	04092	SN74S373J
1820-2186	01698	SN75497N
1820-2188	04078	MK3880N
1820-2189	03811	P8041 MASKED
1820-2190	03794	AM25LS2518PC
1820-2191	03811	C8275
1820-2192	03811	P8048 MASKED
1820-2193	02037	MC10178L
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1820-2195	02910	74LS04N
1820-2198	02237	9637TC
1820-2199	02237	9638TC
1820-2200	01698	SN74LS147N
1820-2201	01698	SN74LS322AN
1820-2202	01698	SN74LS323N
1820-2203	03794	AM26LS32PC
1820-2204	03714	IM6402-1IPL
1820-2205	03811	P8085A-2
1820-2206	01698	SN74LS640N
1820-2207	01698	SN75471P
1820-2208	01698	SN75462P
1820-2209	01921	CD4097AE
1820-2210	03406	MM74C00N
1820-2211	03406	MM74C04N
1820-2212	03406	MM74C10N
1820-2213	03406	MM74C32N
1820-2214	03406	MM74C162N
1820-2215	03406	MM74C373N
1820-2216	03406	MM74C374N
1820-2217	03406	MM88C29N
1820-2218	03406	MM88C30N

HP P/N	Mfr.	Desc.
1820-2219	02037	MC68488P
1820-2220	02037	MC14076BCP
1820-2221	01921	CD4067BF
1820-2222	01921	CD4094BF
1820-2223	02037	MC14032BCP
1820-2224	02037	MC14038BCP
1820-2225	01921	CD4041UBF
1820-2226	01921	CD4045BF
1820-2227	01921	CD4000BF
1820-2228	02037	MC14044BCP
1820-2229	01921	CD4512BF
1820-2230	01921	CD4047BF
1820-2231	01921	CD4031BF
1820-2232	02037	MC14034BCP
1820-2233	01921	CD4099BF
1820-2234	03406	DS3649N
1820-2236	01698	SN55453BJG
1820-2238	03406	IDM2901ADC
1820-2239	03406	DP8304
1820-2240	02037	MC68A02P
1820-2241	01921	CD40103BF
1820-2242	02237	95003DC
1820-2243	01698	SN75469N
1820-2244	01698	SN74LS179N
1820-2245	03811	PR048 MASKED
1820-2246	03406	MM5369AA/N
1820-2247	02910	N82S100I
1820-2248	01698	54LS08
1820-2249	01698	54LS10
1820-2250	01698	54LS30
1820-2251	01698	54LS196
1820-2252	01698	54S30
1820-2253	01698	54S40
1820-2257	02037	MC14503BCP
1820-2258	02037	MC14174BCP
1820-2259	01698	AC5947NF
1820-2260	03406	IMD2911ANC
1820-2261	01698	SN54LS11J
1820-2262	03794	AM25LS2539PC
1820-2263	03811	PR041A MSKD
1820-2264	02237	4040BPC
1820-2265	02237	4008BPC
1820-2266	02910	NE590F
1820-2267	02910	NE591F
1820-2268	01698	SN74LS645N
1820-2269	03811	PR048 MSKD
1820-2270	03794	AM25LS2569DC
1820-2271	03811	DR039
1820-2272	02237	F3870PC MASKED
1820-2273	02634	UDN2981A
1820-2274	02634	ULN-2988B
1820-2275	03406	MM74C90N
1820-2276	03406	MM74C86N
1820-2277	02037	MC14022BAL
1820-2278	03811	CR748
1820-2279	02037	MC14175BCP
1820-2280	04078	MKP3870 MSKD
1820-2282	01698	SN55461JG
1820-2283	01698	SN55462JG
1820-2284	02037	MC68A50P
1820-2285	03795	MC6871A-1.0MHZ
1820-2287	02910	N74S253N
1820-2288	04078	MK3885P
1820-2289	03811	CR251A
1820-2290	03406	DS3632N
1820-2291	02037	MC6860P
1820-2292	01590	SP8617ADG
1820-2293	02037	MC68B00P
1820-2294	03811	PR048 MSKD
1820-2295	03811	PR355 MSKD
1820-2296	02037	MC8502P
1820-2297	02037	MC8500P
1820-2298	07653	Z80A-CPU-PS
1820-2299	07653	Z80A-DMA-PS
1820-2300	07653	Z80A-SIO/2-PS
1820-2301	07653	Z80A-CTC-PS
1820-2304	01698	SN7422J
1820-2306	02037	MC14490VP
1820-2307	02037	MC68A40P
1820-2308	03811	PR039-6
1820-2309	03406	MM74C923N
1820-2310	04078	MK50390N
1826-0002	02037	MC1510G
1826-0003	02037	MC1456CG
1826-0004	02237	UA304HC
1826-0006	02037	MC1469G
1826-0009	02180	SSS725CJ
1826-0010	02237	723HM
1826-0011	01698	SN52741
1826-0013	02180	SSS741CJ
1826-0014	02037	MC1595L
1826-0015	01921	CA3060D
1826-0016	02037	MLM204G
1826-0017	03406	LM205H
1826-0019	02037	MC1437L
1826-0020	02180	DAC-01CY
1826-0021	03406	LM310H
1826-0022	02037	MC1439L
1826-0023	02037	MC1496L
1826-0024	02037	MC1469R
1826-0025	03406	LM208AH
1826-0026	01698	LM311L
1826-0028	02037	MC1550G
1826-0029	02634	ULN-2111A
1826-0031	02237	UA726HC
1826-0032	02037	MC1463R
1826-0033	02037	MC1463G
1826-0035	03406	LM308AH
1826-0036	02037	MC1494L
1826-0037	02037	MC1590G
1826-0038	02037	MC1436G
1826-0040	02910	55733A
1826-0041	01921	CA3059
1826-0042	02037	MCC1741
1826-0043	01921	CA307T
1826-0044	02237	UA739DC
1826-0047	02910	NE562B
1826-0048	02037	MCC1456
1826-0049	01698	UA723CJ
1826-0051	01698	TL514CN
1826-0055	02237	UA711DC
1826-0056	02237	UA740HC
1826-0058	02910	NE501A
1826-0059	01698	LM201AL
1826-0060	02037	MC1438R
1826-0061	03793	SG3501AJ
1826-0064	02237	UA733DC
1826-0065	01698	SN72311P
1826-0067	02910	NE531H
1826-0069	02237	LM301AD
1826-0070	02037	MC1741CL
1826-0071	02037	MC1456G
1826-0072	02237	UA208H
1826-0074	03285	AD503K(SEL)
1826-0075	01921	CA3079
1826-0077	03406	LM311F
1826-0078	01921	CA3030
1826-0079	03545	1321
1826-0081	03406	LM318H
1826-0082	03285	AD741LH
1826-0086	02037	MC1776CG
1826-0087	01921	CA3004
1826-0089	03545	1322
1826-0090	03285	AD741KH(SFL)
1826-0091	06563	DRAM 6,8810
1826-0094	01698	SN75235N
1826-0098	03406	LM211H
1826-0099	02237	7812UC
1826-0100	01698	SN72747J
1826-0101	02910	NE565K
1826-0102	03406	LM312H
1826-0103	02037	MC1545G
1826-0104	03406	LM371H
1826-0105	02883	DG172BK
1826-0106	02037	MC7815CP
1826-0108	03406	LH0062CH
1826-0109	03799	HA2-2625-80593
1826-0110	03406	LM212H
1826-0111	02037	MC1458G
1826-0112	03406	LM316AH
1826-0113	03406	LM207H
1826-0114	02237	710HM
1826-0115	02910	NE526A
1826-0116	02180	CMP-01-CJ
1826-0117	02237	7812KC
1826-0119	02910	NE555T
1826-0120	03406	LM390UV
1826-0121	03714	8007C
1826-0122	02237	7805UC
1826-0123	02037	MC7912CK
1826-0124	02910	NE529K
1826-0125	02037	MC1514L
1826-0126	02037	MC7818CK
1826-0127	02180	DAC-100BCQ3
1826-0128	02037	MC1468L
1826-0129	03714	ICL8001CTZ
1826-0130	02910	NE550L
1826-0131	03714	ICL8008CTY
1826-0132	02237	UA760DC
1826-0135	02237	UA747DM
1826-0137	02910	NE550N
1826-0138	02037	MLM339P
1826-0139	01921	CA1458G
1826-0140	02037	MC1468R
1826-0141	03406	LM319D
1826-0142	02037	MC1458CP1
1826-0144	02037	MC7805CP
1826-0145	02037	MC7806CP
1826-0146	02037	MC7808CP
1826-0147	02037	MC7812CP
1826-0149	02037	MC7818CP
1826-0150	02237	7824UC
1826-0152	02569	CDR125BK
1826-0153	01921	CA3075
1826-0154	02883	DG200BA
1826-0155	02037	MC1406L
1826-0156	03406	MM550H
1826-0159	02037	MC1350P
1826-0160	02237	7806KC
1826-0161	02037	MLM324P
1826-0162	03406	LM321H
1826-0164	02237	742PC
1826-0165	03406	LM4250CH
1826-0167	01921	CA3094AT
1826-0169	03406	LM320K-15
1826-0172	03406	LM308N
1826-0173	03406	LM320K-5.2
1826-0175	03406	LM319N
1826-0176	03285	AD506JH
1826-0177	02763	723BE
1826-0178	03406	LM320H-12
1826-0179	03406	LM320H-5.2
1826-0180	02037	MC1455P1
1826-0181	03406	LM323K
1826-0182	03285	AD540J
1826-0183	02237	UA734HC
1826-0184	02237	UA749DC
1826-0185	01921	CA3080
1826-0187	01921	CA3078AV
1826-0188	02037	MC1408L-8
1826-0189	02910	NE566H
1826-0191	03406	LM319H
1826-0192	03406	LM320H-15
1826-0193	03714	IH5012CPE
1826-0194	02910	NE592A
1826-0195	02883	LD111CJ
1826-0196	02290	RC4195TK
1826-0197	02180	DAC-100CCQ3
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1826-0200	02037	MC1420G
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1826-0202	03406	LM320K-05
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1826-0204	02910	NE565A
1826-0205	02910	NE556A
1826-0206	03406	LM381N
1826-0207	03406	LM318N
1826-0208	03406	LM310N
1826-0209	03406	LM380N-8
1826-0210	03406	LM381N
1826-0212	02237	UA776TC
1826-0213	02910	NE521A
1826-0214	02037	MC7915CT
1826-0215	02037	MC7905.2CT
1826-0217	02290	RC4558T
1826-0218	01921	CA3100T
1826-0219	02910	NE567V
1826-0220	03406	LM320H-05
1826-0221	02037	MC7912CT
1826-0222	02237	UA4136PC
1826-0224	02910	SE555CT
1826-0225	03406	LM322N
1826-0226	02237	78M12HC
1826-0228	02180	SSS725CJ
1826-0229	02180	OP-05CJ
1826-0230	01921	CA3053
1826-0231	02237	UA760HC
1826-0232	03406	LM224D
1826-0233	03406	LM220K-15
1826-0235	03406	LM220K-12
1826-0236	02237	UA760HC(SFL)
1826-0237	00350	XR320
1826-0238	03406	LM325AS
1826-0239	03714	ICL8001/D(SFL)
1826-0240	03714	ICL8008/D(SEL)
1826-0243	02037	MC1558G
1826-0244	02910	NE529A
1826-0245	03406	LM370N
1826-0246	02037	MC7802CK
1826-0247	03780	A-4350
1826-0248	02037	MC1408L-6
1826-0249	03285	AD504J
1826-0250	03406	LH0042CH(SFL)
1826-0251	03285	AD514K
1826-0252	03285	AD7520JN
1826-0253	02037	MC3442P
1826-0254	02037	MC1741SCP1
1826-0256	02910	NE522A
1826-0258	03793	SG1502N
1826-0259	02037	MFC6070
1826-0262	02237	UA7824KC
1826-0263	03285	AD532JD
1826-0264	03285	AD7520LN
1826-0266	02180	OP-05EJ
1826-0267	03406	LH0062CD
1826-0268	03406	LM208D
1826-0270	03799	HA-2005A
1826-0271	01698	SN72741P
1826-0272	03406	LM361H
1826-0274	02037	MC78L15ACP
1826-0275	02037	MC78L12ACP
1826-0276	02037	MC78L05ACP
1826-0277	03406	LM320T-15
1826-0281	02037	MC79L15ACP
1826-0282	02037	MC79L12ACP
1826-0283	03406	LM325S
1826-0284	02037	MC79L06C
1826-0285	02037	MC79L05ACP
1826-0286	02037	MC79L03C
1826-0289	02037	MC3476G
1826-0291	03406	LM324F
1826-0292	01921	CA3085
1826-0293	02037	MC1306P
1826-0294	02037	MC7905CT
1826-0295	03285	AD533JH
1826-0299	03406	LM320T-24
1826-0300	02237	UA79M12AHC
1826-0301	01698	SN72LU22L
1826-0302	02037	MC1741SCG
1826-0303	01921	CA741G
1826-0304	03406	LF355H
1826-0305	02237	79MGT2C
1826-0306	03406	LM339AD
1826-0307	01921	CA3130T
1826-0308	03285	AD562KD/BIN
1826-0309	03285	AD518J
1826-0311	02037	MLM201AP1
1826-0312	02037	MC3403P
1826-0314	03406	LM355-1H
1826-0315	03406	LM348N
1826-0316	03406	LH0079-1H
1826-0318	06338	TBA231
1826-0319	03406	LF356H
1826-0320	03406	LM395K
1826-0321	01921	CA3099E
1826-0324	03406	LM209K
1826-0325	02037	MCC1776
1826-0326	02290	RC4558NB
1826-0327	03285	AD518KH(SEL)
1826-0328	02290	RV4558NB
1826-0329	03406	LM113-2H
1826-0330	03406	LM299H
1826-0331	02037	XC79L12CG
1826-0332	02037	XC79L05CG
1826-0333	02237	78L12AHC
1826-0334	02037	MC1445L
1826-0336	03406	LM13340-1N
1826-0337	02237	9650-2DC
1826-0338	03794	AM686HC
1826-0339	02237	9650-3DC

HP P/N	Mfr.	Desc.
1826-0342	02237	UA7490HC
1826-0343	02037	MC1436CG
1826-0344	02037	MC7908CP
1826-0345	02237	UA78M12UC
1826-0346	03406	LM358N
1826-0348	03406	LM377N
1826-0349	02237	UA78M06HL
1826-0353	02237	UA78L15ACH
1826-0356	03285	AD7530JD
1826-0357	03406	LF357H
1826-0358	03406	LF256H, SEL NOISE
1826-0360	02037	MC3431P
1826-0364	02037	MC12040P
1826-0365	03799	HA2065-5
1826-0366	02037	MC7812CT(SEL)
1826-0367	02037	MC78M05CG
1826-0368	02037	MC7912CT(SEL)
1826-0369	02037	MC7812CT(SEL)
1826-0370	03406	LM340K-8
1826-0371	03406	LF256H
1826-0373	03406	LM555CN
1826-0374	02237	9650-1DC
1826-0375	03406	LX5700H
1826-0376	03406	LM323K(SEL)
1826-0377	03406	LM320T-18
1826-0378	03406	LM322N(SEL)
1826-0379	02037	MC3476G(-20/70)
1826-0380	03406	LM311H(SEL)
1826-0381	02037	MC1458G(-20/70)
1826-0382	02037	MC1355P
1826-0383	03406	LM308H(SEL)
1826-0385	03406	LM309H(SEL)
1826-0386	03406	LM309K(SEL)
1826-0387	03714	ICL 8250 C PE
1826-0388	03406	LH0071-1H
1826-0390	03406	LM3911N
1826-0391	03714	ICL741C-LN-TY
1826-0392	03794	AM301AH
1826-0393	01698	LM317KC
1826-0394	03406	LM78L10ACH
1826-0396	02237	7815UC
1826-0397	03406	LM220K-5.0
1826-0398	03406	LM271H
1826-0399	02037	MC3340P
1826-0400	02037	MC1555G
1826-0401	02883	L144CJ
1826-0402	06545	LAS-1515
1826-0403	06545	LAS-1815
1826-0404	02237	UA7952UC
1826-0405	03406	LH0022CH
1826-0408	03714	ICL8212CPA
1826-0409	02037	MC1723L
1826-0410	01698	TL084CN
1826-0411	02037	MC14536BCP
1826-0412	03406	LM393N
1826-0413	03799	HA2-2605-5
1826-0414	03406	LH0070-2H
1826-0415	02910	SD5000R
1826-0416	03406	LF13331D
1826-0417	03406	LF13333D
1826-0418	02237	UA7912UC
1826-0419	03406	LM3909N
1826-0420	02037	MC14585P1
1826-0421	03285	AD536AJ
1826-0422	03406	LF298H
1826-0423	03406	LM317K
1826-0424	02037	MC3405P
1826-0425	03799	HA2-2655-5
1826-0426	03794	AM6870L
1826-0427	01921	CA741CGH
1826-0428	01698	SG3524J
1826-0429	03799	HI1-1818A-5
1826-0430	03285	AD559KD
1826-0431	02037	MC14433L
1826-0432	03714	ICL 8049 CC PE
1826-0433	03406	LF356BN
1826-0434	03406	LM341P-8.0
1826-0435	03406	LM341P-12
1826-0436	03406	LM341P-24
1826-0437	02037	MC1495L
1826-0438	03406	LM340LAH-12
1826-0439	03406	LH-0053CG
1826-0440	02180	OP-01CJ
1826-0441	02237	UA796UIC
1826-0442	03714	IH5027CPE
1826-0443	02237	UA78GKC
1826-0444	02237	UA79GKC
1826-0445	02237	UA7905UC
1826-0446	03714	ICL8052CPD
1826-0447	03406	LF257H
1826-0448	03285	AD7520LN(SEL)
1826-0449	03406	LM320T-8.0
1826-0450	01698	TL497CN
1826-0451	02037	MC7915CK
1826-0452	02883	LD130CJ
1826-0453	02180	DAC-100ACQ3
1826-0454	02910	NE527K
1826-0455	03714	ICL 8013CC TZ
1826-0456	02237	UA78GU1C
1826-0457	03406	LM325H
1826-0458	03406	LF255H
1826-0459	03406	LH0042CD
1826-0460	02237	UA78L26AWC
1826-0461	01698	TL702CL(SEL)
1826-0462	02037	MC3410CL
1826-0464	02037	MC78M15CP
1826-0465	01921	CA3140T
1826-0466	02037	MCC1776C
1826-0467	02037	MC1403P1
1826-0468	02037	MC3423P1
1826-0469	03334	ATF431
1826-0470	02037	MC14046BCP
1826-0471	02180	OP-07CJ
1826-0472	03406	LH0044ACH
1826-0473	02037	MLM204G(SEL)
1826-0474	02037	MC3467P
1826-0475	02037	MC3468P
1826-0476	01698	TL601CP
1826-0477	01698	TL610CP
1826-0478	02237	UA7906UC
1826-0479	01698	LM293P
1826-0480	03406	LF13333N
1826-0481	03406	LH0033CG
1826-0482	03714	HA2-2525-5
1826-0483	02237	UA79MGU1C
1826-0484	02237	UA78MGU1C
1826-0485	03285	AD7530LN
1826-0486	02037	MC14052BCP
1826-0488	03406	LM218H
1826-0489	03714	IH5028CPE
1826-0490	03714	IH5032CPE
1826-0491	02237	UAF355TC
1826-0492	03406	DS3630N
1826-0493	02037	MLM308AP1
1826-0495	02037	MC79L12ACG
1826-0496	02037	MC79L05ACG
1826-0497	03406	LF311H
1826-0498	01698	SN76549N
1826-0499	03406	LH0091CJ
1826-0500	03285	AD536K
1826-0501	02037	MC14053BCP
1826-0502	02037	MC14066BCP
1826-0503	03406	LF398H
1826-0504	03285	AD7530LD
1826-0505	02037	MC1741NCP1
1826-0506	01921	CA3140F
1826-0507	02037	S7A266
1826-0508	03285	AD561JD
1826-0509	02037	MC1658P
1826-0510	03406	LF13332N
1826-0511	01698	UA79M15CLA
1826-0512	02037	MC78M15CG
1826-0517	03406	ADC0800PCN
1826-0519	01698	TL071CP
1826-0520	01698	TL071BCP
1826-0521	01698	TL072CP
1826-0522	01698	TL074CN
1826-0523	03406	LM337K
1826-0524	03406	LM324AN
1826-0526	02037	MC3420P
1826-0527	03406	LM337T
1826-0528	03406	LF356BH
1826-0529	02037	MC3419CP
1826-0531	02237	UA759T2C
1826-0532	03799	HA1-4605-5
1826-0533	03406	LM326H
1826-0534	01921	CA3080F
1826-0536	03406	LM340AK-5
1826-0537	03406	LM220K-5.2
1826-0538	01698	TL084BCN
1826-0539	03406	LM317H
1826-0540	03714	ICL8211CTY
1826-0542	02180	OP-14CJ
1826-0543	02237	UA714HC
1826-0544	02037	MC1403U
1826-0545	01698	TL082ACP
1826-0546	02910	NE592K
1826-0547	01698	TL072ACP
1826-0548	03406	LM161D
1826-0549	01921	CA3140H
1826-0550	02237	UA0801FPC
1826-0551	01698	TL7805ACKC
1826-0552	03406	LF13741H
1826-0554	03406	LM340LAZ-12
1826-0555	03406	LM340LAZ-5
1826-0556	02037	MC1458NG
1826-0557	03406	LM348D
1826-0558	03406	LM337H
1826-0559	03406	LM340K-24
1826-0565	01698	TL494CN
1826-0567	02037	MLMC101A
1826-0568	03406	LM320H-6
1826-0569	02910	NE5534AT
1826-0572	01698	TL084ACN
1826-0573	03714	ICL8069DCQ
1826-0574	02237	UA714LHC
1826-0575	02763	9400CJ
1826-0576	02180	OP-16E
1826-0577	02180	DAC-100CCQ4
1826-0578	03794	AM685HL
1826-0579	03794	AM686CN
1826-0580	03406	AF134-1CJ
1826-0581	03406	LF13508D
1826-0582	03406	LF13201D
1826-0583	02237	UA79MGHC
1826-0584	02237	UA78MGHC
1826-0585	03406	LM329DZ
1826-0586	02237	UA78L62AWC
1826-0587	02883	LD121CJ
1826-0588	02883	LD120CJ
1826-0590	03406	LF13509D
1826-0591	06545	LAS 19U
1826-0592	03406	LM358AH
1826-0593	02763	8750CJ
1826-0594	03406	LH0044CH
1826-0595	03285	AD522A(SEL)
1826-0598	02037	MC12002P
1826-0599	02037	MC14569BCP
1826-0600	01698	TL074ACN
1826-0601	02180	OP-16F
1826-0602	03285	AD7506KD
1826-0603	02237	UA78S40PC
1826-0605	02883	DG508CK
1826-0606	02883	DG201CK
1826-0607	03406	LM340AT-15
1826-0608	02910	UA7808DA
1826-0609	02180	MUX08FQ
1826-0610	02180	MUX24FQ
1826-0611	03406	LM2904N
1826-0616	02180	OP-11EY
1826-0620	01698	UA7924CKC
1826-0621	02763	8702CN
1826-0622	02180	REF-02J
1826-0623	03406	LM334Z
1826-0624	05436	VFC32KP
1826-0625	02910	NE5553N
1826-0626	01921	CA3130AS
1826-0627	03285	AD542L
1826-0628	02180	OP-11FY
1826-0629	01698	UA79M12CKC
1826-0631	03406	LM350K
1826-0632	03406	LM343D
1826-0633	02910	NE5534AT
1826-0634	03406	LM343H
1826-0635	02180	OP-07CP
1826-0636	03285	AD7525KN
1826-0638	03406	LM360N-8
1826-0639	03285	AD7524JN
1826-0640	01698	TL061CP
1826-0641	02180	OP-07EY
1826-0642	02037	MC1405L
1826-0643	01698	TL431CLP
1826-0644	03714	HA2-2515-5
1826-0648	03406	LM342P-12

Desc.	Mfr.	HP P/N
10145APC	02237	1816-1338
106A	03285	1820-0218
118A	03285	1820-0470
11C05DC	02237	1820-2140
11C70DC	02237	1820-1834
11C90DC	02237	1820-1780
1321	03545	1826-0079
1322	03545	1826-0089
1AA2-6001 MASKED	03183	1818-0631
1AA2-6001 MASKED	03183	1818-0632
1AA2-6001 MASKED	03183	1818-0633
1AA2-6001 MASKED	03183	1818-0634
1AA2-6001 MASKED	03183	1818-0635
1AA2-6001 MASKED	03183	1818-0636
1AA2-6001 MASKED	03183	1818-0637
1AA2-6001 MASKED	03183	1818-0638
1AA2-6001 MASKED	03183	1816-0639
1AA2-6001 MASKED	03183	1818-0640
1AA2-6001 MASKED	03183	1818-0641
1AA2-6001 MASKED	03183	1818-0642
1AA2-6198 MASKED	03183	1818-0890
1AA2-6199 MASKED	03183	1818-0891
1AA2-6200 MASKED	03183	1818-0892
1AA2-6201 MASKED	03183	1818-0893
1AC1-9XXX MASKED	03183	1816-0652
1AC1-9XXX MASKED	03183	1818-0653
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1AC2-9XXX MASKED	03183	1818-0665
1AC2-9XXX MASKED	03183	1818-0666
1AC2-9XXX MASKED	03183	1818-0667
2100	02585	1820-0494
2102LHPC	02237	1818-0348
21L02FPC	02237	1818-0757
220-V12QZ	02838	1820-1362
233A(SPEC)	03285	1813-0035
2516	01698	1818-0852
2516	01698	1818-0853
2516N	02910	1818-0254
2526	02910	1818-0125
2526	02910	1818-0152
2526N	02910	1816-0349
2532B	02910	1820-1220
2533V	02910	1820-1608
2602N	02910	1820-1228
2606B	02910	1818-0155
2607F MASKED	02910	1818-0531
2607N MASKED	02910	1818-0505
2607N MASKED	02910	1818-0506
2607N MASKED	02910	1818-0507
2607N MASKED	02910	1818-0756
2616 MASKED	02910	1818-0935
2616N MASKD	02910	1818-0931
2616N MASKD	02910	1818-0932
2616N MASKD	02910	1818-0933
2616N MASKD	02910	1818-0934
2616N MASKD	02910	1818-0936
2616N MASKD	02910	1818-0937

Desc.	Mfr.	HP P/N
2616N MASKD	02910	1818-0938
2616N MASKD	02910	1818-0940
2616N MASKD	02910	1818-0941
2616N MASKD	02910	1818-0942
2616N MASKD	02910	1818-0943
2616N MASKD	02910	1818-0944
2616N MASKD	02910	1818-0945
2616N MASKD	02910	1818-0946
2616N MASKD	02910	1818-0947
2616N MASKED	02910	1818-0707
2616N MASKED	02910	1818-0711
2616N MASKED	02910	1818-0920
2616N MASKED	02910	1818-0921
2616N MASKED	02910	1818-0922
2616N MASKED	02910	1818-0923
2616N MASKED	02910	1818-0924
2616N MASKED	02910	1818-0925
2616N MASKED	02910	1818-0926
2616N MASKED	02910	1818-0939
2617 MASKED	02910	1818-0206
2617I MASKED	02910	1818-0203
2617I MASKED	02910	1818-0205
2617I MASKED	02910	1818-0207
2617I MASKED	02910	1818-0212
2617I MASKED	02910	1818-0213
2617I MASKED	02910	1818-0287
2632N	02910	1818-0963
2632N	02910	1818-0965
2632N	02910	1818-0966
2632N	02910	1818-0967
2632N	02910	1818-0968
2632N	02910	1818-0970
2632N	02910	1818-0971
2632N	02910	1818-0972
2632N	02910	1818-0973
2632N	02910	1818-0974
2632N	02910	1818-0975
2632N	02910	1818-0976
2651I	02910	1820-2155
2652I	02910	1820-2163
2740CE	02763	1813-0049
3101AN	02910	1820-1106
3112/12C	05436	1813-0016
3207N	02910	1820-1008
3341ADC	02237	1818-0279
3341DC	02237	1818-0093
334CJ	02763	1820-1129
33511DC	02237	1818-0422
34009ADC	02237	1820-1906
34702DC	02237	1820-1854
3816PC	02237	1820-2154
3850PC	02237	1820-1928
3851PC MASKED	02237	1818-0314
3851PC MASKED	02237	1818-0315
3851PC MASKED	02237	1818-0316
3852PC	02237	1820-2172
3853PC	02237	1820-2027
3854PC	02237	1820-2173
3861EPC	02237	1820-2100
3870PC PROGRAMMED	02237	1820-2152
3870PC PROGRAMMED	02237	1820-2153
4008BPC	02237	1820-2265
40097PC	02237	1820-1266
40098PC	02237	1820-1484
4011BDC	02237	1820-1336
40163BPC	02237	1820-2125
40174PC	02237	1820-1466
4019BPC	02237	1820-2085
4027BDC	02237	1820-1813
4029BPC	02237	1820-2083
4040BPC	02237	1820-2264
4049BPC	02237	1820-2009
40K	03285	1813-0013
4104PC	02237	1820-2032
4512BPC	02237	1820-1586
4JX19A519	01973	1820-0006
4JX19A555	01973	1820-0001
4JX19A581	01973	1820-0010
5416DM	02237	1820-1172
54LS08	01698	1820-2248
54LS10	01698	1820-2249
54LS196	01698	1820-2251
54LS30	01698	1820-2250
54S30	01698	1820-2252
54S40	01698	1820-2253
6200-1J MASKED	04092	1816-0001
6200-1J MASKED	04092	1816-0002
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711HC	02237	1820-0125
715HC	02237	1820-0476
7162	02838	1813-0133
723BE	02763	1826-0177
723HM	02237	1826-0010
723PC	02237	1820-0439
727HL	02237	1820-0408
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74164PC	02237	1820-0294
74191N	02910	1820-1805
742PC	02237	1826-0164
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74LS154N	02910	1820-2053
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74LS260PC	02237	1820-1905
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74S109DC	02237	1820-1372
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7805UC	02237	1826-0122
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7824UC	02237	1826-0150
78L12AHC	02237	1826-0333
78M12HC	02237	1826-0226
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8702CN	02763	1826-0621
8750CJ	02763	1826-0593
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9001DC	02237	1820-0331
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9003DC	02237	1820-0129
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9020DC	02237	1820-0336
9022DC	02237	1820-0338
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9093DC	02237	1820-0340
9099DC	02237	1820-0343
9111DC	02237	1820-0344
9112DC	02237	1820-0516
911HC	02237	1820-0081
914HC	02237	1820-0049
923HC	02237	1820-0052
9300PC	02237	1820-0134
9304PC	02237	1820-0357
9305PC	02237	1820-0898
9313PC	02237	1820-1063
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9318PC	02237	1820-0657
931HC	02237	1820-0313
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9334PC	02237	1820-0833
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93422DC	02237	1816-1334
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9374PC	02237	1820-1361
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93L11PC	02237	1820-0702
93L12PC	02237	1820-0658
93L14DM	02237	1820-1377
93L14PC	02237	1820-0701
93L16PC	02237	1820-0778
93L18PC	02237	1820-0987
93L21PC	02237	1820-1017
93L22PC	02237	1820-0710
93L24PC	02237	1820-0904
93L28PC	02237	1820-0709
93L34PC	02237	1820-1358
93L40DC	02237	1820-1111
93L412PC	02237	1816-1309
93L415PC	02237	1816-0723
93L422PC	02237	1816-1308
93S10DC	02237	1820-1373
93S12DC	02237	1820-1290
93S16DC	02237	1820-1475
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9401PC	02237	1820-2016
9403PC	02237	1816-0934
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9504DC	02237	1820-1222
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952DC	02237	1820-0952
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956DC	02237	1820-0974
956PC	02237	1820-0036
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959DC	02237	1820-0110
95H90DC	02237	1820-1009
9600DC	02237	1820-0875
960DC	02237	1820-0309
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9613TC	02237	1820-2088
9616PC	02237	1820-2094
9621DC	02237	1820-1044
9624DC	02237	1820-1005
9627PC	02237	1820-2095
9636ATC	02237	1820-2117
9637TC	02237	1820-2198
9638TC	02237	1820-2199
9645DC	02237	1820-1758
964DC	02237	1820-0964
964PC	02237	1820-0038
9650-1DC	02237	1826-0374
9650-2DC	02237	1826-0337
9650-3DC	02237	1826-0339
965DC	02237	1820-0965
965PC	02237	1820-0039
966DC	02237	1820-0966
966PC	02237	1820-0040
967DC	02237	1820-0967
967DC	02237	1820-0975
967PC	02237	1820-0041
968DC	02237	1820-0968
968PC	02237	1820-0043
96L02DC	02237	1820-0730
96S02PC	02237	1820-2118
971DC	02237	1820-0971

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971PC	02237	1820-0045
9806DC	02237	1820-0520
9816DC	02237	1820-0485
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9834DC	02237	1820-0486
9838DC	02237	1820-0482
9842DC	02237	1820-0488
9852DC	02237	1820-0187
9853DC	02237	1820-0518
9856DC	02237	1820-0196
9865DC	02237	1820-0517
9L24DC	02237	1820-1085
9L86PC	02237	1820-1117
9LS194PC	02237	1820-1684
9N04PC SFLECTFD	02237	1820-1139
9S41PC	02237	1820-1927
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AC5947NF	01698	1820-2259
AC5954N-DIP	01698	1820-2063
AD503K(SEL)	03285	1826-0074
AD504J	03285	1826-0249
AD506JH	03285	1826-0176
AD514K	03285	1826-0251
AD518J	03285	1826-0309
AD518KH(SEL)	03285	1826-0327
AD522A(SEL)	03285	1826-0595
AD532JD	03285	1826-0263
AD533JH	03285	1826-0295
AD536AJ	03285	1826-0421
AD536K	03285	1826-0500
AD540J	03285	1826-0162
AD542L	03285	1826-0627
AD559KD	03285	1826-0430
AD561JD	03285	1826-0508
AD561KD	03285	1820-1984
AD562JD/BIN	03285	1820-1838
AD562KD/BIN	03285	1826-0308
AD563KD/BCD	03285	1820-1856
AD741KH(SEL)	03285	1826-0090
AD741LH	03285	1826-0082
AD7506KD	03285	1826-0602
AD7510DIJN	03285	1820-1374
AD7520JN	03285	1826-0252
AD7520LN	03285	1826-0264
AD7520LN(SEL)	03285	1826-0448
AD7524JN	03285	1826-0639
AD7525KN	03285	1826-0636
AD7530JD	03285	1826-0356
AD7530JN	03285	1820-1789
AD7530LD	03285	1826-0504
AD7530LN	03285	1826-0485
AD7550BD	03285	1820-1995
ADC0800PCN	03406	1826-0517
ADC12QZ-003	03285	1813-0064
ADC80AG-12	05436	1813-0098
AF134-1CJ	03406	1826-0580
AH0019CD	03406	1820-1988
AH0134CD	03406	1820-1370
AH0152CD	03406	1820-1371
AH0154D	03406	1813-0054
AH5024CN	03406	1820-1353
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AM1702AHDC	03794	1818-0289
AM2502PC	03794	1820-2168
AM2505PC	03794	1820-1398
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AM25LS07PC	03794	1820-1866
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AM25LS09PC	03794	1820-1867
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AM25LS160PC	03794	1820-1992
AM25LS2518PC	03794	1820-2190
AM25LS2539PC	03794	1820-2262
AM25LS2569DC	03794	1820-2270
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AM26S12PC	03794	1820-1782
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C1302 MASKED	03811	1818-0292
C1602A MASKED	03811	1818-0104
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C2101-1	03794	1818-0318
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C2401	03794	1820-1062
C2708	03811	1818-0234
C2708	03811	1818-0250
C2708 PROGRAMMED	03811	1818-0554
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C2708 PROGRAMMED	03811	1818-0781

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C8080A	03811	1820-1613
C8251A	03811	1820-2289
C8253	03811	1820-2109
C8275	03811	1820-2191
C8316A	03811	1818-0770
C8316A MASKED	03811	1818-0141
C8316A MASKED	03811	1818-0142
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C8316A MASKED	03811	1818-0572
C8316A MASKED	03811	1818-0579
C8748	03811	1820-2278
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CA1458G	01921	1826-0139
CA3000	01921	1820-0297
CA3002	01921	1820-0417
CA3004	01921	1826-0087
CA3005	01921	1820-0046
CA3010	01921	1820-0047
CA3012	01921	1820-0474
CA3015A	01921	1820-0103
CA3018	01921	1820-0352
CA3020	01921	1820-0298
CA3023	01921	1820-0433
CA3026	01921	1820-0240
CA3028A	01921	1820-0306
CA3028B	01921	1820-0137
CA3029	01921	1820-0326
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CA3053	01921	1826-0230
CA3059	01921	1826-0041
CA3060D	01921	1826-0015
CA3075	01921	1826-0153
CA3078AV	01921	1826-0187
CA3079	01921	1826-0075
CA307T	01921	1826-0043
CA3080	01921	1826-0185
CA3080E	01921	1826-0534
CA3085	01921	1826-0292
CA3094AT	01921	1826-0167
CA3099E	01921	1826-0321
CA3100T	01921	1826-0218
CA3130AS	01921	1826-0626
CA3130T	01921	1826-0307
CA3140E	01921	1826-0506
CA3140H	01921	1826-0549
CA3140T	01921	1826-0465
CA741CGM	01921	1826-0427
CA741CT	01921	1820-0203
CA741G	01921	1826-0303
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CD4000BF	01921	1820-2227
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CD4006AF	01921	1820-0962
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CD4012AE	01921	1820-0950
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CD4013AF	01921	1820-0939
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CD4014AE	01921	1820-0970
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CD4016AE	01921	1820-0981
CD4016AF	01921	1820-1675
CD4016BE	01921	1820-1958
CD4017AE	01921	1820-0933
CD4018ABY	01921	1820-1666
CD4018BBY	01921	1820-1659
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CD4020AE	01921	1820-0935
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CD4027BE	01921	1820-1964
CD4028AF	01921	1820-0927
CD4029AE	01921	1820-0931
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CD4031AE	01921	1820-0963
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CD4033AE	01921	1820-0932
CD4034AE	01921	1820-0977
CD4035AE	01921	1820-0969
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CD4037AE	01921	1820-0945
CD4038AE	01921	1820-0924
CD4039AD	01921	1820-0960
CD4040AF	01921	1820-0937
CD4040AF	01921	1820-1925
CD4041AE	01921	1820-0928
CD4041UBF	01921	1820-2225
CD4042AF	01921	1820-0958
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CD4043AE	01921	1820-0941
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CD4045AE	01921	1820-1318
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CD4048AE	01921	1820-1316
CD4049AF	01921	1820-1145
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CD4082BE	01921	1820-1409
CD4085BF	01921	1820-2017
CD4086BF	01921	1820-2018
CD4089BE	01921	1820-1661
CD4093BF	01921	1820-1577
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CD4094BE	01921	1820-1662
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CD4095BE	01921	1820-1663
CD4096BE	01921	1820-1664
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CD4098BE	01921	1820-1650
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CD4512BF	01921	1820-2229
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CD4555BE	01921	1820-1516
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D3242	03811	1820-2076
D3604L-6 PROGRAMMED	03811	1816-1052
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D3624A PROGRAMMED	03811	1816-1300
D4201	03811	1820-2071
D4289	03811	1820-2070
D8008-1	03811	1820-1221
D8039	03811	1820-2271
D8224	03794	1820-1921
D8279-5	03811	1820-2150
DA1201CD	03406	1820-1837
DAC-01CY	02180	1826-0020
DAC-08EQ	02180	1820-1934
DAC-100ACQ3	02180	1826-0453
DAC-100BCQ3	02180	1826-0127
DAC-100CCQ3	02180	1826-0197
DAC-100CCQ4	02180	1826-0577
DAC372-12-HCD	03755	1813-0036
DAC71-CSB-I	05436	1813-0132
DAC80-CHI-I	05436	1813-0094
DAC80-CHI-V	05436	1813-0105
DAC80-CCD-V	05436	1813-0092
DDU-4-5100	06852	1813-0120
DG172BK	02883	1826-0105
DG184BP	02883	1820-1724
DG200BA	02883	1820-1807
DG200BA	02883	1826-0154
DG201CJ	02883	1820-1840
DG201CJ	02883	1820-1971
DG201CK	02883	1826-0606
DG506BR	02883	1820-1841
DG508CJ	02883	1820-1725
DG508CK	02883	1826-0605
DH0035CG	03406	1820-1797
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DM7489N	03406	1820-1054
DM74L00N	03406	1820-1518
DM74L164N	03406	1820-0602
DM74L42AN	03406	1820-1047
DM74L71N	03406	1820-0593
DM74L72N	03406	1820-0594
DM74L73N	03406	1820-0595
DM74L74N	03406	1820-0596
DM74L78N	03406	1820-0597
DM74L85N	03406	1820-0603
DM74L89AN	03406	1820-1055
DM74L90N	03406	1820-0600
DM74L93N	03406	1820-0601
DM74L95N	03406	1820-0599
DM74LS173N	03406	1820-1885
DM74LS189N	03406	1816-1089
DM74S288D PROGRAMMED	03406	1816-1158
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DM74S288J PROGRAMMED	03406	1816-1044
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DM8090N	03406	1820-1148
DM8094N	03406	1820-0846
DM8095N	03406	1820-1254
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DM8121N	03406	1820-1295
DM8123N	03406	1820-1294
DM8130N	03406	1820-1293
DM8160N	03406	1820-1131
DM81L23N	03406	1820-1167
DM81LS95N	03406	1820-1794
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DM8200N	03406	1820-0623
DM8214N	03406	1820-0906
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DM8556N	03406	1820-1874
DM8590N	03406	1820-0262
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DM85L51N	03406	1820-1166
DM85L52N	03406	1820-1472
DM85L54N	03406	1820-1349
DM8554BD	03406	1820-1985
DM8678CAR/N	03406	1816-1339
DM86L75N	03406	1820-0986
DM86L76N	03406	1820-1057
DM86L99N	03406	1820-1394
DM8800H	03406	1820-1021
DM8859N	03406	1820-1587
DM8884AN	03406	1820-1738
DP8212N	03406	1820-2077
DP8304	03406	1820-2239
DRAM 6.8810	06563	1826-0091
DS-02X	03658	1813-0136
DS0026CN	03406	1820-0718
DS0026CG	03406	1820-1065

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DS0056CN	03794	1820-2103
DS3611N	03406	1820-1796
DS3612N	03406	1820-2041
DS3630N	03406	1826-0492
DS3631N	03406	1820-2174
DS3632N	03406	1820-2290
DS3644N	03406	1820-2234
DS8820AN	03406	1820-0721
DS8822N	03406	1820-1115
DS8830N	03406	1820-0720
DS8831N	03406	1820-0780
DS8834N	03406	1820-1845
DS8835N	03406	1820-2161
DS8839N	03406	1820-1870
DS8863N	03406	1820-1740
DS8871N	03406	1820-2138
DS8897N	03406	1820-1739
DS8973N	03406	1820-2136
EA4900 MASKED	03758	1818-0130
EA4900 MASKED	03758	1818-0131
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EA4900 MASKED	03758	1818-0172
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EA4900 MASKED	03758	1818-0202
EA4900 MASKED	03758	1818-0204
EA4900 MASKED	03758	1818-0259
ER2051	02713	1818-0566
F10010DC	02237	1820-2093
F10016DC	02237	1820-1788
F11C06DC	02237	1820-2106
F3870PC MASKED	02237	1820-2272
FCM7002PC	02237	1820-2114
HA-2005A	03799	1826-0270
HA1-4605-5	03799	1826-0532
HA2-2515-5	03714	1826-0644
HA2-2525-5	03714	1826-0482
HA2-2605-5	03799	1826-0413
HA2-2625-80593	03799	1826-0109
HA2-2655-5	03799	1826-0425
HA2065-5	03799	1826-0365
HI1-1818A-5	03799	1826-0429
HI2-200-5	03799	1820-1781
HM-6551-9DIP	03799	1818-0497
HM1-6561B-9	03799	1818-0439
HM1-6611-9 PROGRAMMED	03799	1818-0565
HM1-7603-5 PROGRAMMED	03799	1816-1188
HM1-7603-5 PROGRAMMED	03799	1816-1260
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ICL 8250 C PE	03714	1826-0387
ICL7101CPL	03714	1820-2025
ICL741C-LN-TY	03714	1826-0391
ICL8001/D(SEL)	03714	1826-0239
ICL8001CTZ	03714	1826-0129
ICL8008/D(SEL)	03714	1826-0240
ICL8008CTY	03714	1826-0131
ICL8052CPD	03714	1826-0446
ICL8069DCQ	03714	1826-0573
ICL8211CTY	03714	1826-0540
ICL8212CPA	03714	1826-0408
ICM7218A	03714	1820-2132
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IH5010CPD	03714	1813-0034
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IH5027CPE	03714	1826-0442
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IH5032CPE	03714	1826-0490
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IM6508IDE	03714	1818-0390
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IMD2911ANC	03406	1820-2260
K1091A-10.0MHZ	03795	1813-0047
K1091A-10.485760MHZ	03795	1813-0043
K1091A-5.0MHZ	03795	1813-0045
K1091A-6.9120MHZ	03795	1813-0053
K1091A-7.50MHZ	03795	1813-0052
K1100A	03795	1813-0128
K1100A	03795	1813-0129
K1100A-1.0MHZ	03795	1813-0134
K1100A-1.792MHZ	03795	1813-0117
K1100A-10.0MHZ	03795	1813-0139
K1100A-10.486MHZ	03795	1813-0062
K1100A-15MHZ	03795	1813-0046
K1100A-18.5MHZ	03795	1813-0135
K1100A-27MHZ	03795	1813-0089
K1100A-40MHZ	03795	1813-0119
K1100A-8.389MHZ	03795	1813-0061
K1100A-9.8304MHZ	03795	1813-0116
K1100A28.500	03795	1813-0081
K1114A-10.1376MHZ	03795	1813-0121
K1115A-10MHZ	03795	1813-0067
K1115A-22.2464 MHZ	03795	1813-0126
K1135A	03795	1813-0131
K1148	03795	1813-0130
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LAS 19U	06545	1826-0591
LAS-1515	06545	1826-0402
LAS-1815	06545	1826-0403
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LD111CJ	02883	1826-0195
LD114CJ	02883	1820-1474
LD120CJ	02883	1826-0588
LD121CJ	02883	1826-0587
LD130CJ	02883	1826-0452
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LF13202N	03406	1820-1986
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LF13332N	03406	1826-0510
LF13333D	03406	1826-0417
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LF13508D	03406	1826-0581
LF13509D	03406	1826-0590
LF13741H	03406	1826-0552
LF255H	03406	1826-0458
LF256H	03406	1826-0371
LF256H, SEL NOISE	03406	1826-0358
LF257H	03406	1826-0447
LF298H	03406	1826-0422
LF311H	03406	1826-0497
LF355H	03406	1826-0304
LF356BH	03406	1826-0529
LF356BN	03406	1826-0433
LF356H	03406	1826-0319
LF357H	03406	1826-0357
LF398H	03406	1826-0503
LH-0023CG	03406	1826-0439
LH0002CH	03406	1820-0224
LH0021CK	03406	1813-0058
LH0022CH	03406	1826-0405
LH0024CH	03406	1813-0057
LH0033CG	03406	1826-0481
LH0042CD	03406	1826-0459
LH0042CH	03406	1813-0041
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LH0044ACH	03406	1826-0472
LH0044CH	03406	1826-0594
LH0062CD	03406	1826-0267
LH0062CH	03406	1826-0108
LH0070-1H	03406	1826-0316
LH0070-2H	03406	1826-0414
LH0071-1H	03406	1826-0388
LH0091CJ	03406	1826-0499
LM103-2.4	03406	1820-0225
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LM13340-1N	03406	1826-0336
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LM201H	03406	1820-0104
LM205H	03406	1826-0017
LM207H	03406	1826-0113
LM208AH	03406	1826-0025
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LM218H	03406	1826-0488
LM220K-12	03406	1826-0235
LM220K-15	03406	1826-0233
LM220K-5.0	03406	1826-0397
LM220K-5.2	03406	1826-0537
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LM271H	03406	1826-0398
LM2904N	03406	1826-0611
LM293P	01698	1826-0479
LM299H	03406	1826-0330
LM300H	03406	1820-0123
LM301AD	02237	1826-0069
LM301AH, 22V	03406	1820-0242
LM301AN	02910	1820-0477
LM302H	03406	1820-0158
LM305H	03406	1820-0247
LM306H	03406	1820-0475
LM307N	03406	1820-0493
LM308AH	03406	1826-0035
LM308H	03406	1820-0478
LM308H(SEL)	03406	1826-0383
LM308N	03406	1826-0172
LM309H	02910	1820-0429
LM309H(SEL)	03406	1826-0385
LM309K	02237	1820-0430

Desc.	Mfr.	HP P/N
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LM310H	03406	1826-0021
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LM311F	03406	1826-0077
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LM311L	01698	1826-0026
LM312D	03406	1826-0201
LM312H	03406	1826-0102
LM316AH	03406	1826-0112
LM317H	03406	1826-0539
LM317K	03406	1826-0423
LM317KC	01698	1826-0393
LM318H	03406	1826-0081
LM318N	03406	1826-0207
LM319D	03406	1826-0141
LM319H	03406	1826-0191
LM319N	03406	1826-0175
LM320H-05	03406	1826-0220
LM320H-12	03406	1826-0178
LM320H-15	03406	1826-0192
LM320H-5.2	03406	1826-0179
LM320H-6	03406	1826-0568
LM320K-05	03406	1826-0202
LM320K-15	03406	1826-0169
LM320K-5.2	03406	1826-0173
LM320T-15	03406	1826-0277
LM320T-18	03406	1826-0377
LM320T-24	03406	1826-0299
LM320T-8.0	03406	1826-0449
LM321H	03406	1826-0162
LM322N	03406	1826-0225
LM322N(SEL)	03406	1826-0378
LM323K	03406	1826-0181
LM323K(SEL)	03406	1826-0376
LM324AN	03406	1826-0524
LM324F	03406	1826-0291
LM325AS	03406	1826-0238
LM325H	03406	1826-0457
LM325S	03406	1826-0283
LM326H	03406	1826-0533
LM329DZ	03406	1826-0585
LM334Z	03406	1826-0623
LM337H	03406	1826-0558
LM337K	03406	1826-0523
LM337T	03406	1826-0527
LM339AD	03406	1826-0306
LM340AK-5	03406	1826-0536
LM340AT-15	03406	1826-0607
LM340K-24	03406	1826-0559
LM340K-8	03406	1826-0370
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LM340LAZ-12	03406	1826-0554
LM340LAZ-5	03406	1826-0555
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LM341P-8.0	03406	1826-0434
LM342P-12	03406	1826-0648
LM343D	03406	1826-0632
LM343H	03406	1826-0634
LM348D	03406	1826-0557
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LM555CN	03406	1826-0373
LM709H	03406	1820-0162
LM78L10ACH	03406	1826-0394
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MC1004P	02037	1820-0142
MC1006P	02037	1820-0666
MC1007P	02037	1820-0147
MC10100L	02037	1820-1990
MC10101P	02037	1820-0801
MC10102P	02037	1820-0802
MC10103L	02037	1820-1831
MC10103P	02037	1820-1686
MC10104P	02037	1820-1400
MC10105P	02037	1820-0803
MC10106P	02037	1820-0804
MC10107P	02037	1820-0805
MC10109P	02037	1820-0806
MC1010P	02037	1820-0145
MC10110P	02037	1820-0807
MC10111P	02037	1820-0808
MC10113L	02037	1820-1882
MC10115L	02037	1820-1945
MC10115P	02037	1820-0809
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MC10116P	02037	1820-0810
MC10117L	02037	1820-1946
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MC10131P	02037	1820-0817
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MC10134L	02037	1820-0819
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MC10158L	02037	1820-1993
MC1015P	02037	1820-0180
MC10160L	02037	1820-0826
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MC1016P	02037	1820-0440
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MC10176L	02037	1820-2193
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MC10178L	02037	1820-2066
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MC10179L	02037	1820-0830
MC1017P	02037	1820-0146
MC10181L	02037	1820-0831
MC1018P	02037	1820-0144
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MC10197P	02037	1820-2023
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MC10211P	02037	1820-1482
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MC1043P	02037	1820-0792
MC1047P	02037	1820-0897
MC1048P	02037	1820-0473
MC10576F	02037	1820-2167
MC1062P	02037	1820-0916
MC1065P	02037	1820-0917
MC1068P	02037	1820-0791
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MC12013L	02037	1820-1888
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MC12040P	02037	1826-0364
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MC12061P	02037	1820-1977
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MC1355P	02037	1826-0382
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MC14001UBCP	02037	1820-1620
MC14002BCP	02037	1820-2079
MC14002UBCP	02037	1820-1339
MC14002UBCP	02037	1820-1511
MC14006BCP	02037	1820-2086
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MC14011BCP	02037	1820-1747
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MC14011UBCP	02037	1820-1621
MC14012BCP	02037	1820-1960
MC14012UBCP	02037	1820-1507
MC14013BCP	02037	1820-1497
MC14013BCP	02037	1820-1617
MC14014BCP	02037	1820-1514
MC14015BCL	02037	1820-2055
MC14015BCP	02037	1820-1176
MC14015BCP	02037	1820-1502
MC14015BCP	02037	1820-1622
MC14015BCP	02037	1820-2008
MC14016BCP	02037	1820-1504
MC14016BCP	02037	1820-1614
MC14017BCP	02037	1820-1508
MC14018BCP	02037	1820-2084
MC14020BCP	02037	1820-1494
MC14021BCP	02037	1820-2031
MC14022BAL	02037	1820-2277
MC14022BCL	02037	1820-1527
MC14023BCP	02037	1820-1961
MC14023UBCP	02037	1820-1509
MC14023UBCP	02037	1820-1618
MC14024BCP	02037	1820-1506
MC14025BCP	02037	1820-1965
MC14025UBCP	02037	1820-1498
MC14025UBCP	02037	1820-1619
MC14027BC	[illegible]	1820-1496
MC14028BCL	02037	1820-1526
MC14028BCP	02037	1820-1512
MC14028BCP	02037	1820-1962
MC14032BCP	02037	1820-2223
MC14034BCP	02037	1820-2232
MC14035BCP	02037	1820-2080
MC14038BCP	02037	1820-2224
MC1403P1	02037	1826-0467
MC1403U	02037	1826-0544
MC14040BCL	02037	1820-2054
MC14040BCP	02037	1820-1495
MC14042BCP	02037	1820-1501
MC14042BCP	02037	1820-1912
MC14043BCP	02037	1820-2124
MC14044BCP	02037	1820-2228
MC14046BCP	02037	1826-0470
MC14049UBCP	02037	1820-1505
MC14049UBCP	02037	1820-1615
MC14049UBCP	02037	1820-1746
MC14050BCP	02037	1820-1521
MC14051BCL	02037	1820-1547
MC14051BCP	02037	1820-2013
MC14052BCL	02037	1820-1546
MC14052BCP	02037	1826-0486
MC14053BCP	02037	1826-0501
MC1405L	02037	1826-0642
MC14066BCP	02037	1826-0502
MC14068BCP	02037	1820-1931
MC14069UBCL	02037	1820-1592
MC14069UBCP	02037	1820-2014
MC1406L	02037	1826-0155
MC14070BCL	02037	1820-1908
MC14070BCP	02037	1820-2015
MC14071BCP	02037	1820-1970
MC14071CP	02037	1820-1388
MC14073BCL	02037	1820-1910
MC14075BCL	02037	1820-1909
MC14075BCP	02037	1820-2091
MC14076BCP	02037	1820-2220
MC14077BCL	02037	1820-1907
MC14078BCP	02037	1820-1930
MC14081BCP	02037	1820-2037
MC14082BCP	02037	1820-2090
MC1408L-6	02037	1826-0248
MC1408L-8	02037	1826-0188
MC14093BCL	02037	1820-1936
MC14174BCP	02037	1820-2258
MC14175BCP	02037	1820-2279
MC1420G	02037	1826-0200
MC1430P	02037	1820-0115
MC1431P	02037	1820-0160
MC1433G	02037	1820-0316
MC1433L	02037	1820-0181
MC1433P	02037	1820-0317
MC1436CG	02037	1826-0343
MC1436G	02037	1826-0038
MC1437L	02037	1826-0019
MC1438R	02037	1826-0060
MC1439G	02037	1820-0201
MC1439L	02037	1826-0022
MC14411P	02037	1820-1779
MC14412VP	02037	1820-2166
MC14433L	02037	1826-0431
MC1445L	02037	1826-0334
MC14490FP	02037	1820-1947
MC14490VP	02037	1820-2306
MC14501UBCP	02037	1820-1079
MC14502BAL	02037	1820-1635
MC14502BCP	02037	1820-1385
MC14503BCP	02037	1820-2257
MC14506BCP	02037	1820-1386
MC14507CP	02037	1820-1330
MC14508BCL	02037	1820-1693
MC14510BCP	02037	1820-1189
MC14511BCP	02037	1820-1413
MC14512CP	02037	1820-1241
MC14515BCP	02037	1820-1329
MC14516CP	02037	1820-1114
MC14517BCP	02037	1820-1815
MC14518BCL	02037	1820-1591
MC14518BCP	02037	1820-1122
MC14519BCP	02037	1820-1387
MC14520BCP	02037	1820-1150
MC14520BCP	02037	1820-2021
MC14522BAL	02037	1820-1181
MC14522CP	02037	1820-1175
MC14526BCP	02037	1820-1328
MC14527BCP	02037	1820-1265
MC14528BCL	02037	1820-2051
MC14528BCP	02037	1820-1356
MC14530BCP	02037	1820-1327
MC14532BCL	02037	1820-1570
MC14532BCP	02037	1820-1355
MC14534BCP	02037	1820-1855
MC14536BCP	02037	1826-0411
MC14538BCL	02037	1820-1569
MC14538BCP	02037	1820-1932
MC14539BCL	02037	1820-1549
MC14539BCP	02037	1820-1471
MC14541BCP	02037	1820-1658
MC14543BCP	02037	1820-2097
MC14549BCP	02037	1820-1721
MC14553BCP	02037	1820-1479
MC14555BCP	02037	1820-2050
MC14556BCP	02037	1820-1412
MC14558BCP	02037	1820-1573
MC14559BCP	02037	1820-1722
MC1455P1	02037	1826-0180
MC14560BCP	02037	1820-1850
MC14561BCP	02037	1820-2033
MC14566BCP	02037	1820-1588
MC14568BCP	02037	1826-0599
MC1456CG	02037	1826-0003
MC1456G	02037	1826-0071

Desc.	Mfr.	HP P/N
MC1456G(-20/70)	02037	1826-0381
MC14572UBCP	02037	1820-1657
MC14583BCP	02037	1820-1389
MC14584BCP	02037	1820-2019
MC14585BCP	02037	1820-1340
MC1458CP1	02037	1826-0142
MC1458G	02037	1826-0111
MC1458N	02037	1826-0556
MC1458SP1	02037	1826-0420
MC1460R	02037	1820-0277
MC1463G	02037	1826-0033
MC1463R	02037	1826-0032
MC1468L	02037	1826-0128
MC1468R	02037	1826-0140
MC1469G	02037	1826-0006
MC1469R	02037	1826-0024
MC1488L	02037	1820-0504
MC1489AL	02037	1820-0990
MC1489L	02037	1820-0510
MC1494L	02037	1826-0036
MC1495L	02037	1826-0437
MC1496G	02037	1820-0427
MC1496L	02037	1826-0023
MC1510G	02037	1826-0002
MC1514L	02037	1826-0125
MC1531G	02037	1820-0050
MC1545G	02037	1826-0103
MC1550G	02037	1826-0028
MC1555G	02037	1826-0400
MC1558G	02037	1826-0243
MC1590G	02037	1826-0037
MC1595L	02037	1826-0014
MC1648L	02037	1820-1119
MC1648P	02037	1820-1108
MC1650L	02037	1820-0919
MC1651L	02037	1820-0624
MC1658P	02037	1826-0509
MC1660L	02037	1820-0790
MC1662L	02037	1820-0796
MC1664L	02037	1820-0795
MC1670L	02037	1820-0794
MC1672L	02037	1820-0797
MC1674L	02037	1820-0793
MC1690L	02037	1820-1132
MC1692L	02037	1820-0920
MC1694L	02037	1820-1334
MC1697P	02037	1820-1852
MC1723CG	02037	1820-0196
MC1723L	02037	1826-0409
MC1741CL	02037	1826-0070
MC1741NCP1	02037	1826-0505
MC1741SCG	02037	1826-0302
MC1741SCP1	02037	1826-0254
MC1776CG	02037	1826-0086
MC1800P	02037	1820-0985
MC1801L	02037	1820-0868
MC1801P	02037	1820-0441
MC1805P	02037	1820-0454
MC1806P	02037	1820-0273
MC1808P	02037	1820-0274
MC1810P	02037	1820-0238
MC1812P	02037	1820-0418
MC1814P	02037	1820-0665
MC2257L	02037	1820-1156
MC2259L	02037	1820-1157
MC3001P	02037	1820-0141
MC3002P	02037	1820-0239
MC3002P	02037	1820-0923
MC3003P	02037	1820-0205
MC3006P	02037	1820-0204
MC3007P	02037	1820-1031
MC3021P	02037	1820-0841
MC3022P	02037	1820-0617
MC3025P	02037	1820-0604
MC3026P	02037	1820-0140
MC3029P	02037	1820-0700
MC3060P	02037	1820-0449
MC3061P	02037	1820-0609
MC3062P	02037	1820-0451
MC3103L	02037	1820-1375
MC3340P	02037	1826-0399
MC3403P	02037	1826-0312
MC3405P	02037	1826-0424
MC3410CL	02037	1826-0462
MC3410CP	02037	1826-0529
MC3420P	02037	1826-0526
MC3423P1	02037	1826-0468
MC3431P	02037	1826-0360
MC3440P	02037	1820-1522
MC3441AP	02037	1820-1558
MC3442P	02037	1820-1842
MC3442P	02037	1826-0253
MC3443P	02037	1820-1687
MC3446P	02037	1820-1689
MC3450P	02037	1820-2157
MC3452P	02037	1820-2158
MC3459CP	02037	1820-1786
MC3460P	02037	1820-1810
MC3467P	02037	1826-0474
MC3468P	02037	1826-0475
MC3476G	02037	1826-0289
MC3476G(-20/70)	02037	1826-0379
MC3486P	02037	1820-2144
MC3487P	02037	1820-2145
MC351G	02037	1820-0012
MC352G	02037	1820-0013
MC353G	02037	1820-0014
MC354G	02037	1820-0015
MC355G	02037	1820-0016
MC356G	02037	1820-0017
MC359G	02037	1820-0019
MC360G	02037	1820-0020
MC361G	02037	1820-0021
MC362G	02037	1820-0022
MC364G	02037	1820-0018
MC364G SELECTED	02037	1820-0062
MC4001P	02037	1820-0639
MC4002P	02037	1820-0843
MC4006P	02037	1820-0604
MC4007P	02037	1820-0724
MC4008P	02037	1820-0842
MC4010P	02037	1820-0836
MC4012P	02037	1820-0607
MC4015P	02037	1820-0437
MC4016P	02037	1820-1183
MC4018P	02037	1820-1332
MC4022P	02037	1820-1109
MC4024P	02037	1820-0567
MC4038P	02037	1820-0834
MC4044P	02037	1820-0630
MC660P	02037	1820-1520
MC662P	02037	1820-0288
MC663P	02037	1820-1519
MC666P	02037	1820-0625
MC667P	02037	1820-1606
MC668P	02037	1820-1605
MC670P	02037	1820-2133
MC672P	02037	1820-0287
MC6800L	02037	1820-1480
MC6802L	02037	1820-2151
MC6802P	02037	1820-2099
MC6821L	02037	1820-1481
MC6828P	02037	1820-2030
MC68488L	02037	1820-2113
MC68488P	02037	1820-2219
MC6850L	02037	1820-1690
MC6852CP	02037	1820-2175
MC6860P	02037	1820-2291
MC6870A	02037	1820-1637
MC6871A-1.0MHZ	03795	1820-2285
MC6875P	02037	1820-2036
MC6881P/MC3449P	02037	1820-2165
MC68A00P	02037	1820-2137
MC68A02P	02037	1820-2240
MC68A21L	02037	1820-2180
MC68A21P	02037	1820-2081
MC68A40P	02037	1820-2307
MC68A488L	02037	1820-2148
MC68A50P	02037	1820-2284
MC68B00P	02037	1820-2293
MC7242P	02037	1820-0719
MC7250P	02037	1820-0786
MC7279P	02037	1820-0984
MC7441AP	02037	1820-0100
MC7479P	02037	1820-0908
MC7805CK	02037	1826-0246
MC7805CP	02037	1826-0144
MC7806CP	02037	1826-0145
MC7808CP	02037	1826-0146
MC7812CP	02037	1826-0147
MC7812CT(SEL)	02037	1826-0366
MC7812CT(SEL)	02037	1826-0369
MC7815CP	02037	1826-0106
MC7818CK	02037	1826-0126
MC7818CP	02037	1826-0149
MC78L05ACP	02037	1826-0276
MC78L12ACP	02037	1826-0275
MC78L15ACP	02037	1826-0274
MC78M05CG	02037	1826-0367
MC78M15CG	02037	1826-0512
MC78M15CP	02037	1826-0464
MC7905.2CT	02037	1826-0215
MC7905CT	02037	1826-0294
MC7908CP	02037	1826-0344
MC7912CK	02037	1826-0123
MC7912CT	02037	1826-0221
MC7912CT(SEL)	02037	1826-0368
MC7915CK	02037	1826-0451
MC7915CT	02037	1826-0214
MC79L03C	02037	1826-0286
MC79L05ACG	02037	1826-0496
MC79L05ACP	02037	1826-0285
MC79L06C	02037	1826-0284
MC79L12ACG	02037	1826-0495
MC79L12ACP	02037	1826-0282
MC79L15ACP	02037	1826-0281
MC810G	02037	1820-0080
MC815P	02037	1820-0325
MC816P	02037	1820-0106
MC817P	02037	1820-0411
MC824P	02037	1820-0324
MC8266P	02037	1820-0506
MC8301P	02037	1820-0111
MC8307P	02037	1820-0914
MC8308P	02037	1820-0742
MC8309P	02037	1820-0610
MC8310P	02037	1820-0705
MC8312P	02037	1820-0615
MC8314P	02037	1820-0626
MC835L	02037	1820-0869
MC835P	02037	1820-0479
MC838P	02037	1820-0533
MC839P	02037	1820-0260
MC840P	02037	1820-0259
MC844L	02037	1820-0865
MC846L	02037	1820-0861
MC848L	02037	1820-0862
MC849L	02037	1820-0866
MC8500P	02037	1820-2297
MC8502P	02037	1820-2296
MC850P	02037	1820-0087
MC851L	02037	1820-0860
MC853P	02037	1820-0122
MC857P	02037	1820-0257
MC858L	02037	1820-0863
MC858P SELECTED	02037	1820-0767
MC858P SELECTED	02037	1820-0768
MC8601P	02037	1820-0207
MC8602L	02037	1820-1524
MC8602P	02037	1820-0515
MC889P	02037	1820-0323
MC8T26AP	02037	1820-1081
MCC1456	02037	1826-0048
MCC1741	02037	1826-0042
MCC1776	02037	1826-0325
MCC1776C	02037	1826-0466
MCM10144L	02037	1816-1053
MCM10152L	02037	1816-1335
MCM145101-1P	02037	1818-0695
MCM14524CP MASKED	02037	1818-0494
MCM14524CP MASKED	02037	1818-0496
MCM2147C-70	02037	1818-0849
MCM4004A	02037	1816-0042
MCM4004A	02037	1816-0043
MCM4004A	02037	1816-0044
MCM4004A	02037	1816-0045
MCM4256AL	02037	1816-1020
MCM5004AL	02037	1816-0860
MCM6332L PROGRAMMED	02037	1818-0361
MCM6332L PROGRAMMED	02037	1818-0364
MCM6560AP MASKED	02037	1816-0167
MCM6572L	02037	1818-0336
MCM6581P	02037	1818-0700
MCM6590L MASKED	02037	1818-0182
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MCM6590P MASKED	02037	1818-0309
MCM6590P MASKED	02037	1818-0950
MCM6590P2 MASKED	02037	1818-0451
MCM6590P2 MASKED	02037	1818-0510
MCM6670P MASKED	02037	1818-0514
MCM6810AL	02037	1818-0328
MCM68308P MASKED	02037	1818-0578
MCM68317L MASKED	02037	1818-0573
MCM68317L MASKED	02037	1818-0574
MCM68317L MASKED	02037	1818-0575
MCM68317L MASKED	02037	1818-0576
MCM68317L MASKED	02037	1818-0577
MCM6832L MASKED	02037	1818-0216
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MCM6832L MASKED	02037	1818-0218
MCM6832L MASKED	02037	1818-0219
MCM6832L MASKED	02037	1818-0220
MCM6832L MASKED	02037	1818-0751
MCM6832L MASKED	02037	1818-0786
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MCM6832L PROGRAMMED	02037	1818-0362
MCM6832L PROGRAMMED	02037	1818-0363
MCM6832P MASKED	02037	1818-0395
MCM6832P MASKED	02037	1818-0396
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MCM68332P MASKED	02037	1818-0532
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MCM68A10L	02037	1818-0135
MCM68A10P	02037	1818-0701
MCM68A708L	02037	1818-0912
MFC4000H	02037	1826-0198
MFC6070	02037	1826-0259
MH0007C	03406	1820-0832
MHW592	02037	1813-0138
MK2302P	04078	1816-0355
MK31000 MASKED	04078	1818-0284
MK31000N-3 MASKED	04078	1818-0329
MK31000N-3 MASKED	04078	1818-0330
MK31000N-3 MASKED	04078	1818-0331
MK31000P MASKED	04078	1818-0285
MK31000P MASKED	04078	1818-0286
MK34000N-3 MASKED	04078	1818-0469
MK34000P-3 MASKED	04078	1818-0373
MK36000N-4 MSKD	04078	1818-0885
MK3851 MASKED	04078	1818-0699
MK3880N	04078	1820-2188
MK3885P	04078	1820-2288
MK4096-3	04078	1818-0114

Desc.	Mfr.	HP P/N
MK4096P-16	04078	1818-0326
MK4102P-6	04078	1818-0327
MK5009N	04078	1820-1123
MK5009P	04078	1820-1180
MK50399N	04078	1820-2310
MK6036P	04078	1820-0993
MKP3870 MSKD	04078	1820-2280
MLM201AP1	02037	1826-0311
MLM204G	02037	1826-0016
MLM204G(SEL)	02037	1826-0473
MLM301AG	02037	1820-0223
MLM308AP1	02037	1826-0493
MLM324P	02037	1826-0161
MLM339P	02037	1826-0138
MLMC101A	02037	1826-0567
MM 5216 RJW/N	03406	1818-0100
MM1101A/A1N	03406	1818-0134
MM1402AD	03406	1820-0733
MM5006H	03406	1820-0770
MM5013N	03406	1820-1165
MM5040H	03406	1820-1236
MM5050AH	03406	1820-1237
MM5052	03406	1820-0717
MM5057N	03406	1820-1162
MM507	03406	1820-0410
MM5241ABLN	03406	1818-0061
MM5241N MASKED	03406	1818-0499
MM5244J PROGRAMMED	03406	1818-0739
MM5244J PROGRAMMED	03406	1818-0740
MM5244J PROGRAMMED	03406	1818-0741
MM5244J PROGRAMMED	03406	1818-0742
MM5244J PROGRAMMED	03406	1818-0745
MM5260N	03406	1820-1149
MM5261N	03406	1818-0106
MM5269N	03406	1818-0440
MM5280N-5	03406	1818-0508
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TMS4050NL	0169A	1818-0147
TMS4060-2JL	0169A	1818-0247
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supplement to BENCH BRIEFS SERVICE NOTE INDEX

Need Any Service Notes?

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140T OSCILLOSCOPE
140T-1A-S. All prefixes. Modification to reduce shock hazard during failure conditions.

141T STORAGE OSCILLOSCOPE
141T-7A-S. All prefixes. Elimination of potential safety hazard.

204C/D OSCILLATOR
204C/D-3A. 204C and 204C-H20 serials 0989A18215 and below, and 204D serials 1105A05485 and below. Modification to accept new type batteries (Option 002 only).

239A OSCILLATOR
239A-1. Serials 1814A00100 thru 1814A00226. Procedures for correction of wiring of ground select switch.
239A-2. Serials 1814A00100 thru 1814A00231. Procedures for correction of amplitude instability.

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339A-2. Serials below 1730A00410. Procedures for replacement of zener diodes A4CR5, A4CR11 and photocells A3E1, A3E2.
339A-3. Serials below 1730A00555. Replacement procedures for photocell A3E1.
339A-4A. Serials below 1730A00409. Replacement procedures for photomodule A2E1.

419A DC NULL VOLTMETER
419A-7A-S. Elimination of potential shock hazard.

427A VOLTMETER
427A-5. Serials 0947A18910 and below. Meter stability improvement when switching from DCV+ to DCV− positions.

432C POWER METER
432C-2. Serials 1832A and below. Modification to buffer BCD output data.

465A AMPLIFIER
465A-6. Serials 0970A05175 and below. Recommended replacement for transistor Q9.

478A THERMISTOR MOUNTS
478A-1D. All serials. Thermistor assembly replacement procedure.
478A-2A. Serials below 49673. RF connector assembly replacement procedures
478A-3. All serials between 49673 to 65600. Ground modification to prevent currents flowing through thermistors.

495A MICROWAVE AMPLIFIER
495A-8A. Serials 826-0311 thru 1717A. Modification to prevent arcing in high voltage circuits.

608C/D VHF SIGNAL GENERATORS
608D-4B. 608C serials below 2354 and 608D serials below 4916. Recommended silicon rectifier conversion.

895A POWER SUPPLY
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1200A/B OSCILLOSCOPE
1200A/B-1A. Serials 1202A and below. Recommended low voltage regulator transistor replacement.

1201A/B OSCILLOSCOPE
1201A/B-9. Serials 1331A and below. Recommended low voltage regulator transistor replacement.

1220A OSCILLOSCOPE
1220A-21A. Serials 1814A, 1814S, and below. Recommended CRT replacement.

1222A OSCILLOSCOPE
1222A-1A. Serials 1809A, 1809S, and below. Recommended CRT replacement.

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1310A-19-S. Serials 1812A-01656 and below. Elimination of potential hazard.

1311A DISPLAY
1311A-19-S. Serials 1552A-01477 and below. Elimination of potential hazard.

1317A DISPLAY
1317A-6-S. Serials 1649A-00600 and below. Elimination of potential hazard.

1321A DISPLAY
1321A-6-S. Serials 1656A-00425 and below. Elimination of potential hazard.

1350A GRAPHICS TRANSLATOR
1350A-1. All serials. Resistor change to standardize Z axis amplifier U65 selection.

1610A LOGIC ANALYZER
1610A-4-S. Serials 1812A00645 and below. Elimination of power line socket shock hazard.
1610A-5. Serials 1822A and below and 01610-63005's serials below 1806A01040. Modification to prevent fuse failures due to line fluctuations.
1610A-6. Modification to the display board to improve performance.
1610A-7. All serials. Low voltage power supply troubleshooting.

1611A LOGIC STATE ANALYZER
10262A-1. Serials 1818A00511 and below. Modification to 10262A personality module for input signal threshold detection.

1615A LOGIC ANALYZER
1615A-1-S. Serials 1825A00626 and below. Elimination of power line socket shock hazard.

1640A SERIAL DATA ANALYZER
1640A-1-S. Serials 1827A00315 and below. Elimination of power socket shock hazard.
1640A-2. Serials 1827A00295 and below. Power supply current limit modification.
1640A-3. Serials 1835A00402 and below. Recommended replacement for clamping diodes on A4 interface board.

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1715A-3. Serials 1728A and below. Modification to eliminate intermittent auto baseline at slow sweeps.

1720A OSCILLOSCOPE
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1722A-18. All serials. Modification to eliminate intermittent auto baseline at slow sweeps.
1722B-1. Serials 1737A and below. Modifications to eliminate intermittent auto baseline at slow sweeps.

1725A OSCILLOSCOPE
1725A-2. Serials 1823A00800 and below. Recommended replacement parts for reliability of analog assembly A18.
1725A-2. Serials 1720A and below. Modifications to prevent intermittent auto baseline at slow sweeps.

1742A OSCILLOSCOPE
1742A-1. Serials prefixed 1807A. Modification to prevent false readings in delayed sweep "TRIG'D" mode.

1915A OUTPUT AMPLIFIER
1915A-4A. Serials 1522A and below. Preferred replacement parts for A5CR2 and A5CR3 diodes.

3325A SYNTHESIZER/ FUNCTION GENERATOR
3325A-1. Serials 1748A00310 and below. Recommended power supply modification.

3330A/B AUTOMATIC SYNTHESIZER
3330A/B-10. Serials 1331A02237 and below. Recommended isolated HP-IB timing improvement.

3335A FREQUENCY SYNTHESIZER
3335A-2. Serials below 1640A00300. Elimination of potential problem when replacing A4U56, A5Q1, A5Q2, A5CR3, or A4.
3335A-3. Serials below 1640A00376. Recommended installation of special sweep mode switch.

3403A/B/C/ TRUE RMS VOLTMETER
3403C-7. All serials. Recommended modifications to update 3403A to 3403C. Supplements 3403C-4.

3420A/B DC DIFFERENTIAL VOLTMETER/RATIOMETER
3420A/B-5C-S. Elimination of potential safety hazard.

3435A MULTIMETER
3435A-3. Serials 1606A06400 and below. Recommended replacement of A1U14 and A1U15 digit drivers.

3438A HP-IB MULTIMETER
3438A-3. Serials 1717A00920 and below. Recommended replacement of A1U14 and A1U15 digit drivers.

3450B DIGITAL MULTIMETER
3450B-5. All serials. Recommended power supply transformer replacement.

3455A DIGITAL VOLTMETER
3455A-12B. Serials 1622A02566 to 1622A03300. Recommendations to improve ohms converter response time.
3455A-13. Serials 1622A03538 and below. Recommended modifications to reduce switch bounce and A1U48 oscillations.

3466A MULTIMETERS
3466A-4A. All serials. Recommended replacement of integrator of amp U400.
3466A-6. Serials 1716A02781 and below. Recommended true RMS converter replacement.
3466A-7. Serials 1716A03380 and below. Recommended replacement of A4U901, A4U905, A4U906, and A4U911 digit drivers.

3495A SCANNER

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3551A TRANSMISSION TEST SET

3551A-9A. Serials 1550A04325 and below. Recommended A3 input amplifier assembly, front panel, and front subpanel replacement.
3551A-11. Serials 1550A04325 and below. Recommended replacement kit for new type WECO 310 jacks.

3555B TRANSMISSION AND NOISE MEASURING SET

3555B-2D. Serials 0992A05670 and below. Recommendations for improved power supply reliability.

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3585A-1. Serials below 1750A00230. Input/conversion assembly rust problem correction.

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3702A-25. All serials. Recommended replacement of A3 assembly I.F. mixer & local oscillator.

3702B IF/BB RECEIVER

3702B-40. Serials below 1242U-00251. Recommended field replacement of A2 assembly.
3702B-41. Serials below 1438U-01046 and serials 1438U-01046 to 1723U-02055 inclusive. Replacement of Y2 display switch (S7).

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3702Z DEMODULATOR DISPLAY

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3721A-17. Serials 1544U-00665 and below. Elimination of noise on dither position.

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3745A/B-19. Serials 1815U and above. Preferred replacement of A109 ROM1.
3745A/B-21. Serials 1815U. Improvement in low frequency noise floor.
3745A/B-22. Serials 1812U and below. Preferred replacement of A109 ROM4.
3745A/B-23. Serials 1815U, 1831U and 1836U. Prevention of possible remote start-up problem.
3745A/B-24. Serials 1812U and below. Recommended retrofit kit for special option H14.
3745A/B-26. Serials between 1815U and 1844U. XY driver (option 040) wire harness modification

3747A/B SELECTIVE LEVEL MEASURING SET

3747A/B-1. Serials 1819U and below. Improvement in low frequency noise floor.
3747A/B-2. Serials 1834U and below. Prevention of possible remote start-up problem.
3747A/B-3. Serials 1804U and below. Recommended modification to 10MHz crystal filter assembly.
3747A/B-5. Serials between 1804U and 1908U. XY driver (option 040) wire harness modification.

3760A DATA GENERATOR

3760A-11. Serials 1744U-00356 to 1744U-00394. Recommended modification to data delay switching.

3763A ERROR DETECTOR

3763A-2. Serials below 1812U-00156. Modification to reduce the susceptibility of the 3763A to conducted line interference.

3770A AMPLITUDE/DELAY DISTORTION ANALYZER

3770A-17A. Serials below 1651U-00483. Recommendations to improve attenuation distortion response with input frequencies widely separated/ preventing oscillation on A31.
3770A-36. Serials below 1817U-00503. Preferred replacement for loudspeaker LS1.
3770A-37. All serials. Recommended retrofitting instructions for option 001 (+10dBm switch).

3770B TELEPHONE LINE ANALYZER

3770B-14. Serials below 1728U-00246. Recommended replacements to prevent oscillations on assembly A31.
3770B-16. Serials below 1728U-00311. Procedures to prevent shorting of capacitors on A23 assembly.

3771A/B DATA LINE ANALYZER

3771A/B-1. All serials. Retrofitting instructions for printer board option 004.

3780A PATTERN GENERATOR/ ERROR DETECTOR

3780A-4B. Serials below 1804U-00531. Modification to prevent noise on the AC line supply.
3780A-10B. Serials below 1804U-00531. Recommendations to reduce the susceptibility to conducted mains supply interference.
3780A-16. All serials. Procedures for selection of correct data threshold level.

3964A INSTRUMENTATION TAPE RECORDER

3964A-16A. Serials 1715A through 1814A; and option 009/010 with serials 1821A00792 and below. Recommended modification of A24 F1 and F2 to 5 amps.

3968A INSTRUMENTATION TAPE RECORDER

3968A-16A/8868A-14A. Serials 1715A through 1814A; and option 009/010 with serials 1821A00702 and below. Recommended modification a A24 LF1 and F2 to 5 amps.

5045A DIGITAL IC TESTER

5045A-5B. All serials. Recommended new relays check test cards.
5045A-9. All serials. Recommended handling precaution for CMOS boards.
5045A-10. All serials. Power supply modification to prevent overvoltage adjustment conditions.
5045A-11. All serials. Revised cross talk test to improve current performance tests.
5045A-12. All serials. Recommended proper ground reference for test equipment.
5045A-13. Serials 1748A00345 and below. Paper advance circuit modification to prevent Q2 drive transistor damage.
5045A-15. All serials. Revised 5045A A11 adjustments.

5300A MEASURING SYSTEM

5300A-5. All serials. Recommended 10548A diagnostic test card update.

5300B MEASURING SYSTEM

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5307A HIGH RESOLUTION COUNTER

5307A-1A. Serials 1308. Modification to install ground input overload protection.

5308A 75 MHz TIMER/COUNTER

5308A-4A. Serials 1720 and below. Recommended modification to prevent self-check erroneous display.

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5312A-3. Troubleshooting procedures using signature analysis.

5314A UNIVERSAL COUNTER

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5328A UNIVERSAL COUNTER

5328A-U-15A. Serials 1818U-00761 and above. Recommended replacement for A2 power supply assembly.
5328A-22. Series 1625. Troubleshooting option 011 (HP-IB) using signature analysis.
5328A-23. Serials 1828-08626, 1828-08733, 1828-08743, 1828-08742, and 1828-09052. Recommended improvement to A3 oscillator support assembly.

5342A MICROWAVE FREQUENCY COUNTER

5342A-9. Serials 1812 and below. Recommended procedure to correct false frequency readout.

5354A FREQUENCY COUNTER

5354A-8. All serials. Compatibility and repair information.

5363A TIME INTERVAL PROBES

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5370A UNIVERSAL TIME INTERVAL COUNTER

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5370A-2. Recommended ROM changes.

5381A 80 MHz FREQUENCY COUNTER

5381A-2. Serials 1624 and below. Recommended field replacement of A1CR1 full wave bridge rectifier.

5420A DIGITAL SIGNAL ANALYZER

5420A-14. All serials. Modification to improve performance of 54470B digital filter.

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5451B-19/5451C-01. Serials 1748A and below. Modification to prevent intermittant operation of 5477A system control while running modal analysis.

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5526A-4. Serials 1648A and below. Modification to eliminate laser starting problems.

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6110A-2. Serials 1815A01507 and older. Recommended modification to replace zener diode 1902-0763.
6111A-2. Serials 1606A02096 and below. Recommended modification to replace zener diode 1902-0763.
6112A-2. Serials 1634A01849 and below. Recommended modification to replace zener diode 1902-0763.
6113A-3. Serials 1617A01250 and below. Recommended modification to replace zener diode 1902-0763.
6116A-2. Serials 1741A01825 and below. Recommended modification to replace zener diode 1902-0763.

6128C THRU 6131A DIGITAL VOLTAGE SOURCE

6128C-1. Serials 1621A00150 and below. Modification to replace zener diode 1902-0763.
6129C-2. Serials 1739A00366 and below. Modification to replace zener diode 1902-0763.
6130C-2. Serials 1821A01045 and below. Modification to replace zener diode 1902-0763.
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6286A-3. Serials 1744A03991 and below. Modification to replace zener diode 1902-0763.
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6296A-3. Serials 1816A03146 and below. Modification to replace zener diode 1902-0763.

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6428B-2. Serials 1834A02369 and below. Modification to replace zener diode 1902-0763.
6433B-2. Serials 1706A03305 and below. Modification to replace zener diode 1902-0763.
6434B-2. Serials 1826A02850 and below. Modification to replace zener diode 1902-0763.

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6522A-6. Serial 1820A01267. Modification to replace zener diode 1902-0763.
6525A-6. Serials 1827A02471 and below. Modification to replace zener diode 1902-0763.

7221A GRAPHIC PLOTTER

7221A-6/9872A-8. 7221A Serials 1823A-01381 and below, and 07221-60181 and 07221-66131 manufactured before 10/1/78. Change power-up sequence to processor BIB's.

7402A/7404A OSCILLOGRAPHIC RECORDERS

7402A-8. Serial prefixes: 7402A — 1720A03286 to 1720A03500, 7404A — 1740A00541 to 1740A00580. Recommended procedures to lubricate drive roller bearings.
7402A-9. Serials 1820A3600 and before. Noise reduction modification on options 004 and 0009.

8018A DATA GENERATOR

8018A-1. Serials 1702G00101-1702G00205. Recommended improved power supply kit.
8018A-2. Serials 1826G00285 and below. A3 bit rate board modification.

8165A PROGRAMMABLE SIGNAL SOURCE

8165A-2. Serials 1812G00241 to 1812G00281. Procedure to eliminate power-on problem.

8165A PROGRAMMABLE SIGNAL SOURCE

8165A-3. Serials 1701G00101 to 1812G00281. Recommended power dissipation improvement on A10.

8411A HARMONIC FREQUENCY CONVERTER

8411A-2. All serials. Recommended adjustment procedures to ensure compatibility with broadband applications.
8411A-3. All serials. Correct part numbers to use when replacing sampler assemblies.

8412A PHASE-MAGNITUDE DISPLAY

8412A-6. Serials 1625A and below. Modification for use with 8750A storage-normalizer. Supersedes P-08512-60051.
8412A-7-S. Serials 1812A and below. Improvement of fuse labeling.
8412A-8. Serials 1720A through 1812A and instruments modified for use with 8750A storage-normalizer. Recommended replacement for A3U1, A3U3, and A3U4 BI-FET analog switches.

8414A POLAR DISPLAY

8414A-5. Serials 1616A03675 and below. Recommended replacement for high voltage oscillator transistors Q1 and Q2.

8443A/B TRACKING GENERATOR/COUNTER

8443A/B-1-S. 8443A serials 1217A and below; 8443B serials 1228A and below. Elimination of potential shock hazard.

8478B THERMISTOR MOUNT

8478B-1A. Serials 2383 through 2898 and serials 24aa and above. Recommended thermistor assembly replacement kit.
8478B-2. All serials 1144A12160 and below. Recommended ground modification.

8501A STORAGE-NORMALIZER

8501A-2. Serials 1830A00220 and below. Modification of rear panel connectors to be compatible with new and improved interconnect and labeling interface cables.

8503A/B S-PARAMETER TEST SET

8503A-1/8503B-1. All serials. Recommended procedures for cleaning of solenoid contacts in A5 coaxial switch assembly.

8505A NETWORK ANALYZER

8505A-14. Serials 1833A00770 and below. Modification of rear panel connectors to be compatible with new and improved interconnect and labeling interface cables.

8558B SPECTRUM ANALYZER

8558B-13A. Serials 1612A and below. Two pot gear drive tuning modification.
8558B-16. All serials. Recommendations for changing standard 8558B into 75 ohm option 001 or 002.
8558B-18. Serials 1823A04286 to 1823A04360. Recommended replacement of W9 ribbon cable PC connectors.

8565A SPECTRUM ANALYZER

8750A-2/8565A-3. Improvement of the 8750A horiz. gain control range when used with the 8565A spectrum analyzer.
8565A-4. Serials 1849A and below. Recommended parts for oversized AT1 isolator.
8565A-5. All serials. Recommended YTO replacement kit.

8568A SPECTRUM ANALYZER

8568A-2. Serials 1806A thru 1818A. MOS counter IC date codes with known defective devices.
8568A-3. All serials. Procedure to correct delay following instrument preset.
8568A-4. Serials 1805A and below. Recommended modification to improve 10 Hz bandwidth noise floor.
8568A-5. All serials. List of operation and service documentation available.
8568A-6A. All serials. User information available to improve performance.
8568A-9. All serials. Replacement of A28 battery pack.
8568A-11. All serials. Recommended fuse replacement.
8568A-12. IF-display sections prefixed 1811A and below. Recommended modifications to A1V1 CRT/A1A2 Z axis amplifer compatibility.

8614A SIGNAL GENERATOR

8614A-19A. Serials 1748A and below. Recommended replacement for germanium transistors on A500.
8616A-17A. Serials 1739A and below. Recommended replacement for germanium transistors on A500.

8660A/B/C/ SYNTHESIZED SIGNAL GENERATOR

8660A-29. All serials. Programming interface verification program.

8699B RF UNIT

8699B-5A. Serials 1441A and below. Recommended A3 YIG oscillator replacement kit.

8750A STORAGE-NORMALIZER

8750A-2/8565A-3. Serials 1808A and below. Improvement of the 8750A horiz gain control range when used with the 8565A spectrum analyzer.
8750A-4A. Serials 1808A and below. Selected resistor for use with option 003 and 004 dedicated interface cards.
8750A-5. All serials. Recommended 220V/240V line voltage fuse replacement
8750A-6. All serials. 8750A/8410B multi-octave glitches explained.

8868A INSTRUMENTATION TAPE RECORDER

3968A-16A/8868A-14A. Serials 1715A through 1814A, and Option 009/010 with serials 1821A00702 and below. Recommended modification of A24 F1 and F2 to 5 amps.

9411A CONTROLLER CARD

9411A-3. Clarification of prom/control card rev compatibilities.

9571A-DTS 70

9571A-1. All serials. Recommended installation of SPT9 in Rev. C software.
9571A-2. Modification of self test file (%FT600) for systems that do not have power supply programmers.
9571A-3. 91073A prom vendor change.

9862A CALCULATOR PLOTTER

9862A-6A. All serials. Mechanical parts list correction.

9872A GRAPHIC PLOTTER

7221A-6/9872A-8. 9872A serials 1810A-02691 and below, and 09872-60131 and 09872-66131 manufactured before 10/1/78. Change power-up sequence to processor BIB's.
9872A-9. Recommended memory PCA replacement.

10262A PERSONALITY MODULE

10262A-1. Serials 1818A00511 and below, 1611A option A18. Modification for input signal threshold detection.

10761 BINARY MULTIPLIER

10761A-1. Serials below 1712. Modification to eliminate signal timing problems.

59308A TIMING GENERATOR

59308A-3. Serials 1740A00466 through 1744A00690. Modification to improve 5 volt regulator.

69351A/B POWER SUPPLY

69351A-1/69351B-1. 69351A all serials, 69351B serials 1818A02638 and below. Modification to use zener diode 1902-0785.

86242A/C RF PLUG-INS

86242A-3B. All serials. Recommended YTO replacement kit. Supersedes 86242A-1, 86242A-3, 86242A-3A.
86242C-1C. All serials. Recommended YTO replacement kit. Supersedes 86242C-1, 86242C-1A, 86242C-1B.

86250A/B/C/D RF

86250A-3A. Serials 1238A and below and 1246A and above. Recommended YTO replacement kit. Supersedes 86250A/B-1 and 86250A-3.
86250B-3A. Serials 1238A and below and 1246A and above. Recommended YTO replacement kit. Supersedes 86250A/B-1 and 86250B-3.
86250C-1A. Serials 1625A and below. Recommended YTO replacement kit. Supersedes 86250C-1
86250D-1A. Serials 1709A and below. Recommended YTO replacement kit. Supersedes 86250D-1

86330B/86331B OSCILLATOR MODULES

86330B-3/86331B-3. All serials with option 001. Modification to RF mounting bracket when replacing modulator-amplifier-detector.

86341B OSCILLATOR MODULES

86341B-3. All serials with option 001. Recommended modification to LRF mounting bracket when replacing modulator-amplifier-detector.

86342A/C OSCILLATOR MODULE

86342A-4B. All serials. Recommended YTO replacement kit. Supersedes 86342A-1, 86342A-4, 86342A-4A
86342C-1B. All serials. Recommended YTO replacement kit. Supersedes 86342C-1, 86342C-1A

83650C OSCILLATOR MODULE

86350C-1A. Serials 1741A and below. Recommended YTO replacement kit. Supersedes 86350C-1.

86351A OSCILLATOR MODULE

86351A-3A. All serials. Recommended YTO replacement kit. Supersedes 86351A-3.

86352A OSCILLATOR MODULE

86352A-3A. All serials. Recommended YTO replacement kit. Supersedes: 86352A-3.

94151A PROGRAMMABLE DRIVER/COMPARATOR CARD

94151A-1. Modification to improver drive signal characteristics under capacitive load when used in 9571A.

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If there is something you have to share with other *Bench Briefs* readers, let us hear from you.

Editor's Note

In the last issue of Bench Briefs an incorrect part number was listed on page 23 for an insulator used in the 8640B/M Signal Generators. Part number 0841-00064 should be 08641-00064.

Also, the last issue of Bench Briefs was incorrectly numbered Volume 18 Number 1; it should be Volume 19 Number 1. This issue is Volume 19 Number 2.

Sorry for any inconvenience this may have caused.

Editor

An Infallible I.Q. Test

Puzzles often turn up in the strangest places. This one was given to me at a picnic outing I recently attended. The solutions are found by matching the numbered statements with the list of words.

1) That which Noah built
2) An article for serving ice cream
3) What a bloodhound does in chasing a woman
4) An expression to represent the loss of a parrot
5) An appropriate title for a knight named Koll
6) A sunburned man
7) A tall coffee pot perking
8) What one does when it rains
9) A dog sitting in a refrigerator
10) What a boy does on the lake when his motor won't run
11) What do you call a person who wrote for an Inn
12) What the captain said when the boat was bombed
13) What a little acorn says when he grows up
14) What one does to trees that are in the way
15) What you do if you have yarn and needles
16) Can George Washington turn into a country?

A. Hypotenuse
B. Polygon
C. Inscribe
D. Geometry
E. Unit
F. Centar
G. Decagon
H. Arc
I. Circle
J. Axiom
K. Cone
L. Coincide
M. Cosecant
N. Tangent
O. Hero
P. Perpendicular

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