

PG 509 Pulse Generator

INSTRUCTION MANUAL

Tektronix, Inc. P.O. Box 500 Beaverton, Oregon 97077

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INSTRUMENT SERIAL NUMBERS

Each instrument manufactured by Tektronix has a serial number on a panel insert, tag, or stamped on the chassis. The letter at the beginning of the serial number designates the country of manufacture. The last five digits of the serial number are assigned sequentially and are unique to each instrument. Those manufactured in the United States have six unique digits. The country of manufacture is identified as follows:

B010000 — Tektronix, Inc. Beaverton, Oregon, USA G100000 — Tektronix Guernsey, Ltd., Channel Islands E200000 — Tektronix United Kingdom, Ltd., London

J300000 — Sony/Tektronix, Japan

H700000 — Tektronix Holland, NV, Heerenveen,
The Netherlands

Instruments manufactured for Tektronix by external vendors outside the United States are assigned a two digit alpha code to identify the country of manufacture (e.g., JP for Japan, HK for Hong Kong, IL for Israel, etc.).

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The information in the remaining sections of this manual is for qualified service personnel only. Refer to the "Service Safety Summary" located later in this manual.

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OPERATORS SAFETY SUMMARY

The general safety information in this part of the summary is for both operating and servicing personnel. Specific warnings and cautions will be found throughout the manual where they apply and do not appear in this summary.

TERMS

in This Manual

CAUTION statements identify conditions or practices that could result in damage to the equipment or other property.

WARNING statements identify conditions or practices that could result in personal injury or loss of life.

TERMS

As Marked on Equipment

CAUTION indicates a personal injury hazard not immediately accessible as one reads the markings, or a hazard to property, including the equipment itself.

DANGER indicates a personal injury hazard immediately accessible as one reads the marking.

SYMBOLS

In This Manual



This symbol indicates where applicable cautionary or other information is to be found.

As Marked on Equipment



DANGER-High voltage.



Protective ground (earth) terminal.



ATTENTION - Refer to manual.

Power Source

This product is intended to operate from a power source that will not apply more than 250 volts rms between the supply conductors or between either supply conductor and ground. A protective ground connection by way of the grounding conductor in the power cord is essential for safe operation.

Grounding the Product

This product is grounded through the grounding conductor of the power cord. To avoid electrical shock, plug the power cord into a properly wired receptacle before making any connections to the product input or output terminals. A protective ground connection by way of the grounding conductor in the power cord is essential for safe operation.

Danger Arising from Loss of Ground

Upon loss of the protective-ground connection, all accessible conductive parts (including knobs and controls that may appear to be insulated) can render an electric shock.

Use the Proper Power Cord

Use only the power cord and connector specified for your product.

Use only a power cord that is in good condition.

Use the Proper Fuse

To avoid fire hazard, use only a fuse of the correct type, voltage rating and current rating as specified in the parts list for your product.

Do Not Operate in Explosive Atmospheres

To avoid explosion, do not operate this instrument in an explosive atmosphere unless it has been specifically certified for such operation.

Do Not Remove Covers or Panels

To avoid personal injury, do not remove the product covers or panels. Do not operate the instrument without the covers and panels properly installed.

SERVICING SAFETY SUMMARY

FOR QUALIFIED SERVICE PERSONNEL ONLY

Refer also to the preceding Operators Safety Summary.

Do Not Service Alone

Do not perform internal service or adjustment of this product unless another person capable of rendering first aid and resuscitation is present.

Use Care When Servicing With Power On

Dangerous voltages exist at several points in this product. To avoid personal injury, do not touch exposed connections or components while power is on.

Disconnect power before removing protective panels, soldering, or replacing components.

Power Source

This product is intended to operate from a power source that does not apply more than 250 volts rms between the supply conductors or between either supply conductor and ground. A protective ground connection by way of the grounding conductor in the power cord is essential for safe operation.

SPECIFICATION

INTRODUCTION

The PG 509 Pulse Generator is a fast-risetime pulse source producing narrow rectangular pulses at a repetition rate of 50 KHz.The PG 509 can deliver a continuous pulse train at an amplitude of 25 volts into an output load of 50 ohms.

The PG 509 Pulse Generator is a TM 500 Series plug-in instrument. All functional electronics are included, but it requires insertion in a TM 500 or TM 5000 Series Power Module Mainframe for interfacing to basic power supplies.

The PG 509 Pulse Generator was primarily designed to be an integral part of a test system. Figure 1-1 shows primary components and connections immediately related to the Pulse Generator in a typical system. Other than the System Controller, Device Under Test, and PG 509, these are:

- A programmable attenuator (TEKTRONIX AT 5010, or equivalent); used to provide system selection for the degree of attenuation required.
- A high frequency multiplexer/switcher (TEKTRONIX SI 5010, or equivalent); used to route inputs and outputs between instruments and test devices while under system control.

Note that while the PG 509 is not under direct GPIB control, it is typically directed by instruments that are. In a mostly Tektronix instrument configuration, this would typically mean that the PG 509 be installed in a TM 5000 (programmable plug-in compatible) Power Module, as is required for the other two devices.

Standard Accessory

1 Instruction manual

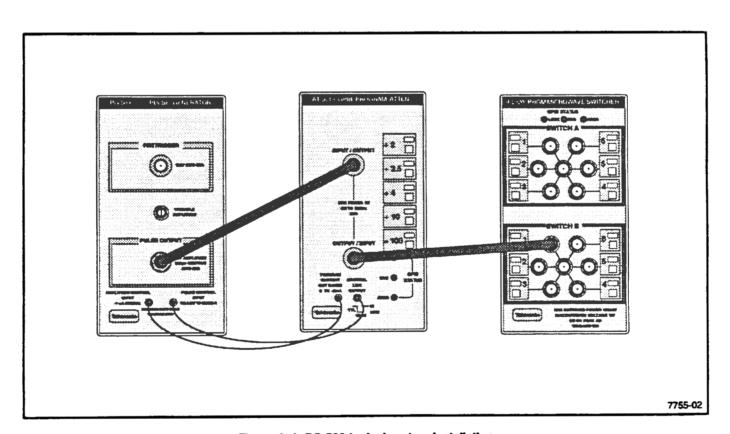


Figure 1-1. PG 509 typical system installation.

PERFORMANCE CONDITIONS

The limits stated in the Performance Requirements column of Table 1-1 are valid only if the PG 509 is operated in an ambient temperature between 0°C and +50°C, unless otherwise stated.

The PG 509 must be in an environment whose limits are described under Environmental Characteristics (Table 1-2).

Allow at least 15 minutes warm-up time for operation to specified accuracy, 60 minutes after storage in high humidity environment.

Table 1-1
Electrical Characteristics

Characteristics	Performs	ance Requirements
Output Amplitude	25 V into 50 Ω.	
Variable Amplitude Range		
Front Panel Adjustment Range	<u>+</u> 5%.	
Amplitude Control Input	Maximum safe input voltage	<u><</u> 10 V.
	Input Current	Output Voltage
	< -0.15 mA	Output is controlled by the front panel VARIABLE AMPLITUDE adjustment.
	-0.5 mA	26.25 V ±2%.
	~1.0 mA	25.00 V ±2%.
	-1.5 mA	23.75 V ±2%.
Pulse Output Frequency	50 kHz ±10%.	
Pulse Width	44 ns ±2 ns (measured at 50)% points).
Pulse Disable	TTL logic low to disable; max	kimum safe input voltage ≤ 10 V.
Rise Time	350 ps ±50 ps (measured a	t System output connector).
PRETRIGGER Out	220 mV \pm 20% (into 50 Ω).	
PRETRIGGER signal before PULSE OUTPUT sig	nal 115 ns ±25% (delay factor).	•

Table 1-2 Environmental Characteristics^a

Characteristics	Description	
Temperature	Meets MIL-T-28800B, class 5.	
Operating	0°C to +50°C.	
Non-operating	-55°C to +75°C.	
Humidity	Meets MIL-T-28800B, class 5.	
	95% RH, 0°C to +30°C 75% RH, to 40°C 45% RH, to 50°C.	
Altitude	Meets MIL-T-28800B, class 5.	
Operating	4.6 km (15,00 ft).	
Non-operating	15 km (50,000 ft).	
Vibration ^b	Meets MIL-T-28800B, class 5, when installed in qualified power modules ^c .	
	0.38 mm (0.015 in) peak to peak, 5 Hz to 55 Hz, 75 minutes.	
Shock	Meets MIL-T-28800B, class 5, when installed in qualified power modules ^c .	
	20 g's (1/2 sine), 11 ms duration, 3 shocks in each direction along 3 major axes, 18 total shocks.	
Bench Handling ^d	Meets MIL-T-28800B, class 5, when installed in qualified power modules ^c .	
	12 drops from 45°, 4 in or equilibrium, whichever occurs first.	
Transportation	Qualified under National Safe Transit Association Preshipment Test Procedures 1A-B-1 and 1A-B-2.	
EMC	Within limits of FCC Regulations, Part 15, Subpart J, Class A; VDE0871; and MIL-461A tests RE01, RE02, CE01, CE03, RS01, RS03, CS01, and CS02.	
Electrical Discharge	20 kV maximum charge applied to instrument case.	

Table 1-3 **Mechanical Characteristics**

Characteristics	Description
Nominal Overall Dimensions	
Height	4.961 in (126.0mm).
Width	2.63 in (66.8 mm).
Length	11.493 in (291.9 mm).
Net Weight	2 lb (0.907 kg).
Finish (front panel)	Plastic/aluminum laminate.

[&]quot;With power module.

BRequires retainer clip.

Refer to TM 5000 Power Module specifications.

Without Power Module.

SYSTEM INSTALLATION

PREPARATION FOR USE

Operating Environment

The PG 509 should be operated in a clean, controlled environment that does not exceed the environmental limitations listed in Section 1. Table 1-2.

NOTE

Before installation, refer to the Operators Safety Summary in the front of this manual and to the Change Information section at the rear of this manual. Also refer to the power module instruction manual for line voltage requirements and power module operation.

The instument operates in any compartment of a TM 500 or TM 5000 Series Power Module. Refer to the TM 500/5000 Series Power Module Instruction Manuals for module connector information, as well as details on line voltages and general power module operation.

The PG 509 must be calibrated in the system it will be used with. The specifications listed in the previous section are for the PG 509 at the system output, not at the PG 509 front panel.

Installation and Removal



To prevent damage to the PG 509, turn off the power module before installation or removal. Do not use excessive force when installing or removing the PG 509. Refer to the Operator Safety Summary at the front of this manual and check the change information at the back of this manual for additional safety notes.

Figure 2-1 shows the installation and removal procedure. Check to see if the plastic barrier on the interconnecting jack of the selected power module compartments matches the cut-out in the circuit board edge connectors at the rear interface.

Align the chassis of the plug-in unit with the upper and lower guide rails of the selected compartments. Push inward and press firmly to seat the circuit board edge connectors in the interconnecting jacks.

System Installation

To remove the PG 509, turn off the power module and pull on the release latch (front panel, lower left corner) until the interconnecting jacks disengage. Pull straight forward to remove the plug-in from the power module.

Power-Up and Front Panel Indications

Apply power to the PG 509 by activating the POWER switch on the TM 500/TM 5000-Series power module.

There is no indication on the front panel that power is applied.

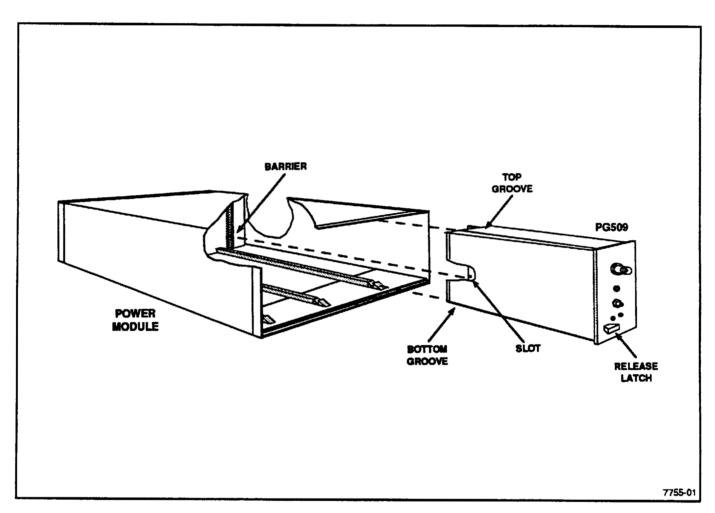


Figure 2-1. installation and Removal.

FRONT PANEL CONTROLS AND CONNECTORS

See Figure 2-2 for the PG 509 front panel controls and connectors.

Connections to the front panel PULSE OUTPUT SMA-type connector should be made using a high quality semi-rigid 50- Ω coaxial cable, such as Tektronix part number 015-1015-00, or better.

For best vswr (voltage-standing wave ratio) and maximum power transfer conditions, the signal source output impedance should match the input load impedance of the signal receiving device. Unmatched source and load impedances degrade the vswr specifications. If terminators are used, they should be placed at the signal source or load (or both), never at the front panel PULSE OUTPUT SMA-type connector.

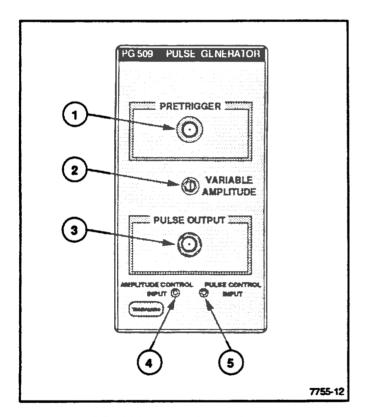


Figure 2-2. PG 509 front panel controls and connectors.

1 PRETRIGGER Connector

Outputs a trigger pulse in advance of the output pulse (from the PULSE OUTPUT connector) to properly trigger related calibration equipment.

2 VARIABLE AMPLITUDE Adjustment

This adjustment varies the output level of the PULSE OUTPUT connector signal.

3 PULSE OUTPUT Connector

SMA-type plug-in output signal connector.

(4) AMPLITUDE CONTROL INPUT Connector

This connector provides a means of controlling the output amplitude of the generator via an input current source that varies between 0 mA and -2 mA. For currents less than -0.15 mA, the generator output level is controlled by the front panel VARIABLE AMPLITUDE adjustment. This input is also at the rear module connector.

5 PULSE CONTROL INPUT Connector

This input enables or disables the generator output signal. When the signal to the connector is a TTL LO, then generator output signal is disabled; when a TTL HI, the generator output signal is enabled. This input is also at the rear module connector.

REPACKAGING INFORMATION

If the instrument is to be shipped to a Tektronix Service Center for service or repair, attach a tag showing:

- Owner (with address) and the name of the individual at your firm that can be contacted
- Complete instrument description and its serial number
- A description of the service required

If the original package is not fit to use or not available, repackage the instrument as follows:

- Surround the instrument with polyethylene sheeting, or other suitable material, to protect the exterior finish.
- Obtain a carton of corrugated cardboard of adequate strength that has inside dimensions no less than six inches more than the instrument dimensions.
- Cushion the instrument by tightly packing dunnage or urethane foam between the carton and the instrument, on all sides.
- Seal the carton with shipping tape or an industrial stapler.

The carton test strength for your instrument is 200 pounds.

APPLICATIONS

SYSTEM FUNDAMENTALS

Some fundamental factors to consider when preparing the PG 509 Pulse Generator for use in a system will be covered in this section. These systems provide a basis for the development of other specialized systems as required by specific applications.

Pulse Definitions

The following terms are commonly used in describing pulse characteristics and are defined here for convenience. The terms are illustrated and applied in Figure 3-1. The other waveforms represent typical output waveforms in order to show the relationships. The terms and their definitions are:

- Risetime t: The time interval during which the amplitude of the output voltage changes from 10% to 90% of the rising portion of the pulse.
- Falltime t_i: The time interval during which the amplitude of the output voltage changes from 90% to 10% of the falling portion of the waveform.

- Pulse Width (or Duration) t_w: The time duration of the pulse measured between the 50% amplitude levels of the rising and falling portions of the waveform.
- Tilt: A measure of the tilt of the full amplitude, flat-top portion of pulse. The tilt measurement is usually expressed as a percentage of the amplitude of the rising portion of the pulse.
- Overshoot: A measure of the overshoot occuring generally above the 100% amplitude level. This measurement is also expressed as a percentage of the pulse rise.

Bear in mind that these definitions are for guide purposes only. When the pulses are very irregular (such as excessive tilt, overshoot, etc.) the definitions may become ambiguous. In such cases, a more complete description of the pulse will probably be necessary.

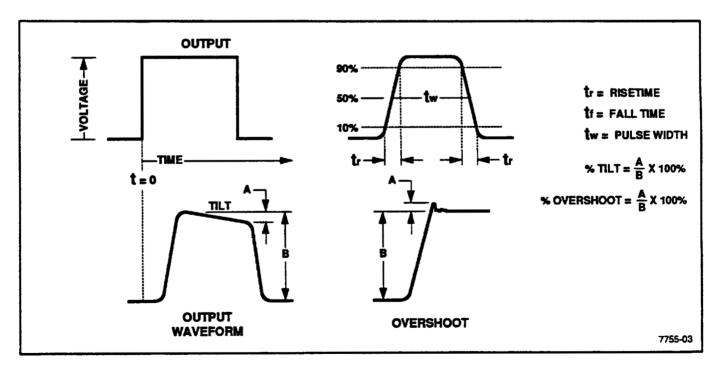


Figure 3-1. Terms used in describing pulse characteristics.

Rise Time

The rise time of any particular assembly of the PG 509, an oscilloscope (conventional or sampling), and accessory pieces such as coax cables, is a variable depending upon the cable characteristics as well as individual risetimes. The "root of the sum of the square" method can generally be applied as an approximation method only, as skin effect losses of the cables do not add properly using this method. (The root-sum-squares method applies accurately to Gaussian systems only.)

As a general rule, if the equipment or signal being measured has a rise time 10 times slower than the PG 509 and other related measuring equipment, the error is 1%. This amount is small and can be considered to be negligible. If the equipment being measured has a rise time three times slower than the related measuring equipment, the error is slightly less than 6%. By keeping these relationships in mind, the results can be interpreted intelligently.

Waveforms

The Illustration shown in Figure 3-2 can be used as a guideline for the following general considerations:

- Oscilloscopes should have a vertical system rise time about one-seventh of the fastest signal applied to keep system errors to a minimum. Conversely, if the signal rise time is at least seven times faster than the rise time of the oscilloscope vertical system, the displayed (observed) waveform will have a rise time that is very close to the rise time of the vertical system.
- The displayed rise time is related to total system bandwidth. A system with limited high-frequency response will produce a displayed rise time that is slower than expected. If a fast-step signal produces a crt display with little or not overshoot or ringing, the product of oscilloscope rise time and oscilloscope bandwidth should result in a factor whose value lies between 0.329 and 0.350.

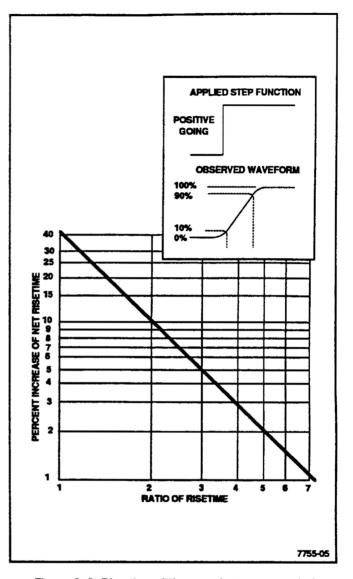


Figure 3-2. Rise time difference for two cascaded devices.

Figure 3-3 illustrates waveform distortion due to incorrect high-frequency compensations. Ringing indicates incorrect peaking adjustments or undesired inductive effects. Excessive overshoot and rolloff indicates incorrect capacitive adjustments. Limited high-frequency response is also indicated by rise time measurements that are much slower than expected. Impedance mismatching will usually show up as excessive aberrations somewhere along the flat portion of the waveform.

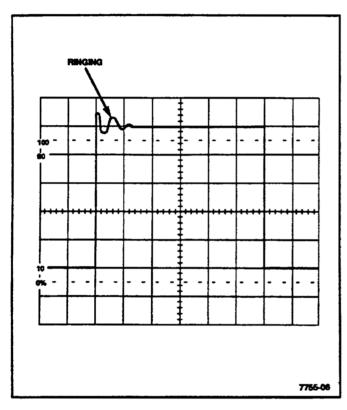


Figure 3-3. Typical high-frequency distortion effect.

Basic Precautions

For faithful reproduction of the pulse, certain precautions should be followed. These are summarized below:

- Use proper types of cables, terminations, attenuators, and impedance matching networks. Low-impedance coaxial cables are used with the PG 509 as signal conductors. It is important that these cables be terminated in their characteristic impedance (50 ohms) to prevent reflections and standing waves unless you deliberately wish to improperly terminate the cables. One application for improper termination would be to boost the signal to an amplifier input by leaving the end of a transmission line unterminated.
- Keep unshielded wires of uncertain impedance short so that reflection and/or cross-coupling effects are not introduced. Keep ground-return paths short and direct.

- Shield measuring equipment leads to prevent undesired coupling to other parts of the circuit. Shielding is especially required where radiation is a problem and where high-impedance dividers or circuits are involved.
- Choose components which function properly at frequencies and rise times encountered.
- Keep in mind inherent parameters in circuit components such as inductance present in capacitors or resistors.
- Consider the possible nonlinear behavior of circuit components due to changes in voltage or temperature coefficients.
- Consider the input impedance of measuring equipment.
 The impedance may be enough to cause loading effects, detuning, or undesirable reflections.

TYPICAL APPLICATION

Measuring DUT Rise Time

The PG 509 can be used in conjunction with an oscilloscope to determine the rise time of a Device Under Test (DUT). Rise time is normally measured between the 10% and 90% amplitude levels on the leading edge of a waveform. The rise time of a displayed waveform is shown in Figure 3–1.

Before measuring the rise time of a device under test, the combined rise time of the PG 509 output signal and the oscilloscope vertical amplifier system must be known. Refer to Figure 3-1 for the percentage error to be expected when the two devices are cascaded. For example, a 2-ns oscilloscope monitoring a 10-ns signal (5:1 ratio) would permit an observation error of 2%. Note that if the rise times are equal, the error is 41.4%.

THEORY OF OPERATION

INTRODUCTION

This section provides a discussion of the major elements incorporated in the schematic for the PG 509 Pulse Generator. The circuit consists of six major elements: Clock and Pretrigger, Pulse Delay, Strobe Generator, Output Pulse and Regulator, Charge Line, and Power Supplies. An Illustration showing the relationship of the circuit elements, as well as major control and output locations, is provided in Figure 4–1.

The PG 509 Pulse Generator produces narrow, fast rise, rectangular pulses at a repetition rate of 50 kHz. The method used in this generator charges a length of coaxial cable which is then switched to the 50-ohm load with a transistor switch operating in avalanche mode. The charge line contained within the unit develops a pulse width equal to twice the electrical length of the line. For the model, this width is equivalent to 44 ns. The nominal output amplitude of the pulse is 25 V into 50 ohms.

A foldout schematic is located in the Diagrams section near the back of this manual. The following paragraphs describe the individual elements.

CLOCK AND PRETRIGGER

Transistors Q30 and Q35 form a Schmitt Oscillator producing a low-duty cycle, positive-going pulse at the collector of Q30. The repetition rate is set by Q40, a 0.9 mA current source, and C28, a 0.1 µF capacitor in Q40's collector. A positive-going ramp of approximately 2 volts is supplied to the base of Q35, turning it off when the base goes more positive than the base of Q30. The voltage step at the collector of Q30 turns Q45 on, discharging C28, resetting the Pretrigger Schmitt, and supplying a pulse from the emitter of Q45 to the Pretrigger Schmitt circuit.

The Pretrigger Schmitt circuit, Q50 and Q58, outputs a positive voltage pulse of 220 mV at J55 into a 50-ohm load and a $\,$ 2 V $\,$

pulse to the anode of CR20. The purpose of this circuit is to supply a trigger pulse in advance of the output pulse to properly trigger calibration equipment.

PULSE DELAY CIRCUIT

The positive going Pretrigger pulse turns off Q60 and Q65. This allows C25 to start charging in a negative direction. When the voltage becomes sufficiently negative to turn on CR16, the current from current source Q70 is switched to Q75.

The resistor chain in the base of Q75 determines where Q75 turns on, and therefore the time after the Pretrigger pulse. This provides a nominal delay of 115 ns. A pulse is coupled from Q75 to the base of Q80 through transformer T2, turning on Q80. The negative portion of the Pretrigger pulse at the anode of CR20 is zero volts. This allows Q60 to conduct, turning on Q65 which discharges C25 and resets the delay circuit. Diodes CR17, CR18 and CR19 prevent Q65 from saturating, thereby ensuring a fast turn-off.

STROBE GENERATOR

Transistors Q83 and Q90 form a regulated power supply from the +150 V unregulated input. This is used to supply +110 volts to the collector of Q80 which is biased to operate in the avalanche mode.

Transistor Q80 will avalanche when a pulse from T2 forward biases its base-emitter junction. Capacitor C20 is then discharged through R64, R99, and the primary of T1. This produces a voltage in the secondary which is sufficient to forward bias the base-emitter junction of Q100, the output switching transistor.

OUTPUT

Transistor Q100 is biased to operate as an avalanche transistor switch which connects DL100, a charged 50-ohm coaxial cable (Charge Line), into a 50-ohm load when conducting.

The output pulse is peak detected and applied to the gate of Q160A. It is compared with a reference voltage received at the gate of Q160B from the collector of Q210/TP1. This reference voltage, nominally 23.4 V, can be varied by adjusting R18, the voltage at pin 2 of J25, or the current at pin 2 of J5.

The amplifier consisting of transistors Q110, Q120, Q130, Q140, Q150, Q160, and U210A adjusts the voltage at the collector of Q100 until the output pulse is similar to the reference from Q210.

Varying the nominal -1 mA of current input to J5 pin 2 by ± 0.5 mA will vary the output voltage $\pm 5\%$. Decreasing the current to approximately -0.15 mA or less will cause the output of U210C to switch positive, turning off Q224B, disabling the input from J5-2/P1B-15, and turning on Q224A, enabling the front panel VARIABLE AMPLITUDE control through J25.

Transistor Q200, CR203 and R44 limit the maximum current that Q110 can supply, to about 10 mA. Diode VR210, a 75-volt Zener, and CR11 limit the Q100 collector voltage to about 100 volts in the absence of an output pulse. Note that without control, the voltage on the Charge Line center conductor can go to the unregulated value of about +200 V, depending on the line voltage. Pin 1 of J5 provides a means to disable the output when a TTL logical LO is supplied by the attenuator, AT 5010, so that

switch contacts will not be damaged as various ranges are selected.

CHARGE LINE

The Charge Line is a high quality, teflon dielectric, 50-ohm coaxial cable, installed in a coil within the module. The line is connected to J100 at one end and left open terminated at the other. The line has a total physical length of approximately 15-1/2 feet and an electrical length of about 22 ns. The Output Pulse width is equal to twice the electrical length of the line; thus the pulse from Q100 results in a pulse width of approximately 44 ns. Capacitors C101, C102, and C103 are in parallel with the Charge Line and are used to adjust the flatness and aberrations of the pulse.

POWER SUPPLIES

The unregulated + 150-V supply is made by connecting some of the TM 5000 power module transformer windings in series and then doubling the result.

All other voltages used by the PG 509 Pulse Generator are regulated on the circuit board. Voltages used, as well as principal integrated circuits associated with each voltage regulation, are provided below:

U20A + 9V

U20B-9V

U10A + 18V

U20A-18V

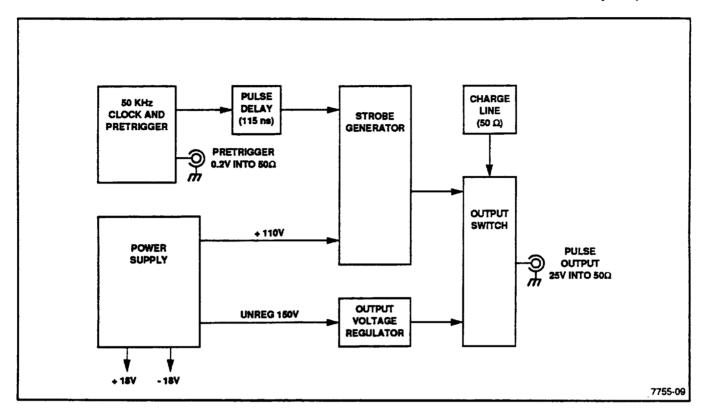


Figure 4-1. PG 509 block diagram.

PERFORMANCE CHECK PROCEDURES

INTRODUCTION

PREPARATION

This procedure is used to verify proper operation of the instrument and its controls. These checks may also be used as an acceptance test and as a preliminary troubleshooting aid.

Test equipment items listed in Table 5-1 are required to perform this procedure.

PERFORMANCE CHECK INTERVAL

To ensure instrument accuracy, check the calibration of the PG 509 every 1000 hours of operation, or every six months if used infrequently.

Table 5-1
Test Equipment Required

	Item and Description Use Examples of Applicable Test Equ		Examples of Applicable Test Equipment
1.	. Test oscilloscope with probe and sampling head	Transient response and amplitude verification.	TEKTRONIX 11801 with SD-26 Sampling Head.
2.	Power Module	Power plugins.	TEKTRONIX TM 500/5000-Series Power Module.
3.	Digital Voltmeter	Amplitude check.	TEKTRONIX DM501A DMM with leads.
4.	Calibration Generator	Oscilloscope characterization.	TEKTRONIX Calibration Generator (part number 067-1338-00).
5.	Programmable Attenuator	Transient response and amplitude verification.	TEKTRONIX AT 5010 Programmable Attenuator.
6.	SMA 10X Attenuator	All tests.	TEKTRONIX Attenuator (part number 015-1003-00)
7.	SMA-to-BNC Adaptors (2 required)	Transient response and amplitude verification.	TEKTRONIX Adaptors (part number 015-1018-00).
8.	BNC-to-BNC cable	All tests.	TEKTRONIX Cable 42" long (part number 012-0057-00).
9.	Semi-rigid SMA-to-SMA cable	Transient response and amplitude adjustment.	TEKTRONIX Cable (part number 015-1015-00).
10	. Power Supply	Amplitude verification.	TEKTRONIX PS 503A Power Supply.
11	. 10 kΩ resistor	Amplitude verification.	TEKTRONIX 321-0289-00.

CHARACTERIZATION OF THE 11801 OSCILLOSCOPE



The input sampling bridge diodes in the SD-26 modules are of the very high frequency, low capacitance variety. An electrostatic discharge to the center conductor of the input connector will destroy these diodes. It is highly recommended that this procedure be performed only at a static-free workstation with the operator property grounded at all times.

 Perform the "Calibrating a Sampling Head" procedure as outlined on page 2-7 of the 11801 Service Manual.

NOTE

The following section will store a 50-division signal at 5 mV/div and 5 ns/div to use as a reference to adjust the PG 509 transient response.

- Connect the Calibration Generator remote head to SD-26 Channel 1 (CH1) and the 11801 INTERNAL CLOCK output to the Calibration Generator TRIGGER INPUT. Push the CH 1 channel select button. Note that the light comes on.
- 3. Push TRIGGER MENU. Touch SOURCE. Touch INTERNAL CLOCK.
- Push AUTO SETUP. A triggered 5-division calibrator waveform should be displayed on the screen at 10 ps/div.
- Push WAVEFORM MENU button. Touch SAMPLING HEAD Fnc's. Touch SMOOTHING on. Touch EXIT.
- Touch ACQUIRE DESC. Touch AVERAGE N to on. Touch SET AVGN.
- 7. Adjust AVERAGE N to 8 (upper knob).
- 8. Touch Horizontal Icon.
- Set MAIN SIZE to 5 ns/div. Adjust MAIN POS knob so the rising edge of the pulse is at the second division.
- 10. Touch the Vertical Icon.
- Adjust VERT OFFSET so the GND arrow is at the center division.
- 12. Adjust the VERT SIZE to 5 mV/div.

- Adjust VERT OFFSET so the trace is 3 divisions up from the center of the graticule.
- 14. Push STORE/RECALL menu.
- Touch STORE TRACE. Touch TRACE 1. Touch RECALL TRACE. Touch STO1. Touch the waveform on the screen to make CH 1 active.
- Adjust MAIN POS to see if the waveform has been properly stored.
- 17. Connect the SMA 10X attenuator to the SD-26 input.
- 18. Disconnect the Calibration Generator.

TRANSIENT RESPONSE AND AMPLITUDE VERIFICATION



The 25-volt pulse from the PG 509 is easily capable of destroying the input sampling bridge diodes. It is strongly recommended that a 10X attenuator be connected to the input at all times.

- Connect the SMA X10 attenuator of known accuracy and a SMA-to-BNC adaptor to the CH 1 input of the 11801.
- Connect the PG 509 PRETRIGGER output to the TRIGGER INPUT on the 11801 through the 42-inch BNC cable and a SMA-to-BNC adaptor.
- Set the AT 5010 to provide a 10X attenuation (X10 light on) in the signal path and close all appropriate signal paths to connect the signal to CH 1 of the SD-26. Connect the appropriate cable to CH 1 of the SD-26.
- 4. Push TRIGGER MENU
- 5. Touch SOURCE, Touch EXTERNAL.
- Push AUTOSET. A triggered 5-division waveform should be on screen at this time at 200 ps/div.
- Set MAIN SIZE to 10 ns. Adjust MAIN POS to center the pulse.
- 8. Touch VERT icon.
- 9. Push WAVEFORM button

- 10. Touch VERT OFFSET, Touch FINE.
- Adjust VERT OFFSET to place the left (zero volt) portion of the waveform on a graticule line.
- 12. CHECK That the pulse amplitude is 4.9 to 5.1 divisions, excluding the error of the X10 attenuator.
- Set the front-panel VARIABLE AMPLITUDE control to produce a pulse that is exactly 5 divisions in amplitude.
- Touch HORIZ icon. Adjust MAIN POS as needed to keep the rising edge on screen while setting the MAIN SIZE to 5 ns/div.
- Touch VERT icon. Touch VERT OFFSET. Touch COARSE. Adjust VERT OFFSET so that the GND pointer is at the bottom graticule line. Set the VERT SIZE to 5 mV/div.
- Adjust VERT OFFSET and MAIN POS to position the active signal so the first 7 ns overlays the stored waveform.

NOTE

The display will now be showing the top of a stored 50-division signal for reference and the top of a 50-division signal from the PG 509 with the vertical at 5 mV/div and horizontal at 5 ns/div. The vertical sensitivity is 2%/div.

17. CHECK - The PG 509 waveform for deviation from the stored waveform to the specifications listed below:

Aberrations $\leq +3\%, -1\%$ for the first 1 ns. Tilt $\leq 2\%, 1$ ns to 40 ns.

Aberration and tilt times are measured from the 50% point of the rising edge.

- 18. Use MAIN POS and VERT OFFSET to position the active trace on top of the stored reference trace so they overlay 7 ns back from the front corner. As the active trace is tilted, it will not fully overlay past 7 ns.
- CHECK That the first 7 ns approximates the character of the stored waveform. The pulse will have an overshoot of about 2% on the very front corner that will not match the stored waveform.
- Set VERT SIZE to 50 mV/div and VERT OFFSET so the GND arrow is 2 divisions up from the bottom of the graticule.
- Set MAIN SIZE to 200 ps/div while using MAIN POS to keep the rising edge centered on the screen.
- 22. Push the MEASURE menu button.

- Touch MEASUREMENT. Touch RISE and WIDTH icons. Touch EXIT.
- 24. CHECK That the rise time is between 300 ps and 400 ps. The 11800 will have trouble resolving the rise time if the pulse on screen is moving relative to the pretrigger pulse. This will be seen as a change in the rise time numbers and horizontal movement on screen. This in no way affects the actual rise time of the PG 509 which will be the number in the center of the extremes of the rise times as measured and displayed by the 11801.
- 25. Set MAIN SIZE to 10 ns/div.
- 26. CHECK That the width is between 42 ns and 46 ns.
- 27. Push WAVEFORM button
- 28. Touch ACQUIRE DESC. Touch SET AvgN. Touch EXIT.
- 29. Adjust AVERAGE N to 2.
- Adjust MAIN POS to horizontally center the pulse and the VERT OFFSET to adjust the bottom of the pulse to a graticule line.

NOTE

The following portion of the procedure will check the PG 509 circuits that are controlled by signals normally supplied by the AT 5010. Ensure that the AT 5010 is not outputting signals to the PG 509 through the backplane connectors while using this procedure.

- Connect a wire from chassis GND to the PULSE AMPLITUDE CONTROL input. The output from the PG 509 should cease. Remove the wire.
- 32. Set the DM501A to the 2 mA range.
- 33. Connect a lead from the common of the PS503A 0 to -20 volt supply to the PG 509 GND. Connect the Green connector from the PS503A to the DM501A HI connector. Connect a wire in series with a 10 kΩ resistor from the DM501A LO input to the PG 509 AMPLITUDE CONTROL input. Push the PS503A OUTPUT switch to ON.
- 34. Adjust the output voltage of the PS503A until the DM501A reads -1 mA. Adjust the oscilloscope display for a 5-division display.
- Adjust the output voltage of the PS503A until the DM501A reads -1.5 mA.
- CHECK That the oscillloscope display is approximately
 4.75 divisions in amplitude.
- Adjust the output voltage of the PS503A until the DM501A reads -0.5 mA.

Performance Check Procedures

- 38. CHECK That the oscillioscope display is approximately 5.25 divisions in amplitude.
- 39. Adjust the output voltage of the PS503A until the DM501A reads \leq 0.4 mA.
- CHECK That the oscillioscope display amplitude is now controlled by the front-panel VARIABLE AMPLI-TUDE control.

ADJUSTMENT PROCEDURES

INTRODUCTION

The information in this section is provided for users who require calibration of their PG 509 Pulse Generator but who may not have access to a Tektronix Field Service or Factory Service Center. The information accessible to Field Offices may be more up to date than contained here. If a large interval of time has passed since purchase of this instrument, contact your nearest Field Office or representative for further information.

infrequently. Before calibration, thoroughly clean and inspect the instrument.

PREPARATION

Test equipment items listed in Table 6-1 are required to perform this procedure. The adjustment locations for the PG 509 are shown in Figure 6-1.

PERFORMANCE CHECK INTERVAL

To ensure instrument accuracy, check the calibration of the PG 509 every 2000 hours of operation, or every one year if used

Table 6-1
Test Equipment Required

Item and Description	Use	Examples of Applicable Test Equipment
Test oscilloscope with probe and sampling head	Transient response and amplitude adjustment/verification.	TEKTRONIX 11801 with SD-26 Sampling Head.
2. Power Module	Power plugins.	TEKTRONIX TM 500/5000-Series Power Module.
3. Digital Voltmeter	Amplitude check.	TEKTRONIX DM501A DMM with leads.
4. Extender Cable	Externally power plugins.	TEKTRONIX Extender Cable (part number 067-0645-01).
5. Calibration Generator	Oscilloscope characterization.	TEKTRONIX Calibration Generator (part number 067-1338-00).
6. Programmable Attenuator	Transient response and amplitude adjustment/verification.	TEKTRONIX AT 5010 Programmable Attenuator.
7. SMA 10X Attenuator	All tests.	TEKTRONIX Attenuator (part number 015-1003-00)
B. SMA-to-BNC Adaptors (2 required)	Transient response and amplitude adjustment/verification.	TEKTRONIX Adaptors (part number 015-1018-00).
9. BNC-to-BNC cable	All tests.	TEKTRONIX Cable 42" long (part number 012-0057-00).
0. Semi-rigid SMA-to-SMA cable	Transient response and amplitude adjustment.	TEKTRONIX Cable (part number 015-1015-00).
1. Low Capacitance Adjustment Tool	Transient response and amplitude adjustment/verification.	TEKTRONIX Tool (part number 003-1364-00).
2. Power Supply	Amplitude adjustment/verification.	TEKTRONIX PS 503A Power Supply.
3. 10 kΩ resistor3	Amplitude adjustment/verification.	TEKTRONI 321-0289-00.

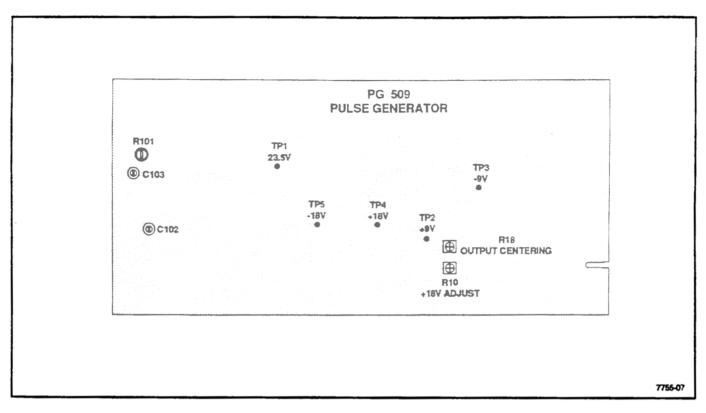


Figure 6-1. PG 509 adjustment locations.

POWER SUPPLY VERIFICATION/ADJUSTMENT



Dangerous voltages are present on the PG 509 board. Only qualified personnel should remove the side covers.

- 1. Remove the PG 509 right side cover.
- 2. Connect the DM501A LO probe to board ground.
- 3. Turn on the power module.
- Connect the HI lead from a DM501A to the following test points and CHECK that the power supplies are within the limits shown in Table 6-2.
- If any of the supplies measured in Step 4 are out of tolerance, ADJUST R10 to adjust the +18 V supply to +18.000 and recheck the power supplies.
- 6. Connect the HI DM501A lead to TP1.

NOTE

The -9 V and -18 V tolerances include the +18 V tolerance of 0.15% as this supply is the reference for them. This supply is adjustable by R10 so this tolerance can be removed if desired. The +9 V supply is Zener referenced and not adjustable.

Table 6-2
Power Supply Verification

Test Point	Power Supply	ply DMM Reading (V)	
TP4	+ 18 V	+ 17.975 to + 18.025	
TP5	-18 V	-17.91 to -18.09	
TP2	+9 V	+8.55 to +9.45	
TP3	-9 V	-8.93 to -9.065	

ADJUST the front panel control VARIABLE AMPLITUDE fully clockwise. Note the reading.

- ADJUST the VARIABLE AMPLITUDE control fully counterclockwise.
- Subtract the second reading from the first and check for a 2.44 V differential (2.39 V to 2.48 V to include tolerances). The nominal voltage at TP1 with R18 centered is 23.4 V, so this represents a range of 10%. This adjustment range can also be observed on an oscilloscope for 5 divisions of signal ±0.25 division.
- Connect the DM501A HI lead to J25 pin 2 and ADJUST the VARIABLE AMPLITUDE control for zero volts.
- 11. Disconnect all equipment.

CHARACTERIZATION OF THE 11801 OSCILLOSCOPE



The input sampling bridge diodes in the SD-26 modules are of the very high frequency, low capacitance variety. An electrostatic discharge to the center conductor of the input connector will destroy these diodes. It is highly recommended that this procedure be performed only at a static-free workstation with the operator properly grounded at all times.

 Perform the "Calibrating a Sampling Head" procedure as outlined on page 2-7 of the 11801 Service Manual.

NOTE

The following section will store a 50-division signal at 5 mV/div and 5 ns/div to use as a reference to adjust the PG 509 transient response.

- Connect the Calibration Generator remote head to SD-26 Channel 1 (CH1) and the 11801 INTERNAL CLOCK output to the Calibration Generator TRIGGER INPUT. Push the CH1 channel select button. Note that the light comes on.
- Push TRIGGER MENU. Touch SOURCE. Touch INTERNAL CLOCK.
- Push AUTO SETUP. A triggered 5-division calibrator waveform should be displayed on the screen at 10 ps/div.

- Push WAVEFORM MENU button. Touch SAMPLING HEAD Fnc's. Touch SMOOTHING on. Touch EXIT.
- Touch ACQUIRE DESC. Touch AVERAGE N to on. Touch SET AVGN.
- 7. Adjust AVERAGE N to 8 (upper knob).
- 8. Touch Horizontal Icon.
- Set MAIN SIZE to 5 ns/div. Adjust MAIN POS knob so the rising edge of the pulse is at the second division.
- 10. Touch the Vertical Icon.
- Adjust VERT OFFSET so the GND arrow is at the center division.
- 12. Adjust the VERT SIZE to 5 mV/div.
- Adjust VERT OFFSET so the trace is 3 divisions up from the center of the graticule.
- 14. Push STORE/RECALL menu.
- Touch STORE TRACE. Touch TRACE 1. Touch RECALL TRACE. Touch STO1. Touch the waveform on the screen to make CH 1 active.
- Adjust MAIN POS to see if the waveform has been properly stored.
- 17. Connect the SMA 10X attenuator to the SD-26 input.
- 18. Disconnect the Calibration Generator.

TRANSIENT RESPONSE AND AMPLITUDE VERIFICATION/ADJUSTMENT



The 25-volt pulse from the PG 509 is easily capable of destroying the input sampling bridge diodes. It is strongly recommended that a 10X attenuator be connected to the input at all times.

Remove the PG 509 from the system. Connect the PG 509 to the Power Module via the Extender Cable, and to the AT 5010 through a SMA-to-SMA semi-rigid cable (part number 015-1015-00) that is 4.5 inches long, or a similar cable. The quality and length of the cable is critical to the fidelity of the pulse and the accuracy of the calibration.

- Connect the SMA X10 attenuator of known accuracy and a SMA-to-BNC adaptor to the CH 1 input of the 11801.
- Connect the PG 509 PRETRIGGER output to the TRIGGER INPUT on the 11801 through the 42-inch BNC cable and a SMA-to-BNC adaptor.
- Set the AT 5010 to provide a 10X attenuation (X10 light on) in the signal path and close all appropriate signal paths to connect the appropriate system output cable to CH 1 of the SD-26.
- 4. Push TRIGGER MENU
- 5. Touch SOURCE. Touch EXTERNAL.
- Push AUTOSET. A triggered 5-division waveform should be on screen at this time at 200 ps/div.
- Set MAIN SIZE to 10 ns. Adjust MAIN POS to center the pulse.
- 8. Touch VERT icon.
- 9. Push WAVEFORM button
- 10. Touch VERT OFFSET, Touch FINE.
- Adjust VERT OFFSET to place the left (zero volt) portion of the waveform on a graticule line.
- CHECK That the pulse amplitude is 4.9 to 5.1 divisions, excluding the error of the X10 attenuator.
- If the pulse amplitude is within these limits, proceed to Step 16. If adjustment is needed or desired, go to Step 14.

NOTE

Adjust the pulse amplitude by one of two methods. The first method (Step 14) uses the front panel VARIABLE AMPLITUDE control. The second method (step 15) calibrates the entire system.

- ADJUST The front-panel VARIABLE AMPLITUDE control to produce a pulse that is exactly 5 divisions in amplitude. Proceed to step 16.
- 15. ADJUST The front-panel VARIABLE AMPLITUDE control so the voltage at J25 pin 2 is zero volts. Adjust R18 so the that center of the top of the pulse is exactly five divisions from the zero volt portion. This adjustment will need to be modified by the amount of error in the X10 attenuator.
- Touch HORIZ icon. Adjust MAIN POS as needed to keep the rising edge on screen while setting the MAIN SIZE to 5 ns/div.
- Touch VERT Icon. Touch VERT OFFSET. Touch COARSE. Adjust VERT OFFSET so that the GND pointer is at the bottom graticule line. Set the VERT SIZE to 5 mV/div.
- Adjust VERT OFFSET and MAIN POS to position the active signal so the first 7 ns overlays the stored waveform.

NOTE

The display will now be showing the top of a stored 50-division signal for reference and the top of a 50-division signal from the PG 509 with the vertical at 5 mV/div and horizontal at 5 ns/div. The vertical sensitivity is 2%/div.

 CHECK - The PG 509 waveform for deviation from the stored waveform to the specifications listed below:

Aberrations $\leq +3\%$, -1% for the first 1 ns. Tilt $\leq 2\%$, 1 ns to 40 ns.

Aberration and tilt times are measured from the 50% point of the rising edge.

If the above criteria is met, go to step 22. Otherwise, continue with this procedure.

 ADJUST - R101 to nearly fully clockwise and C103 to continue the slope of the top of the waveform.

- 21. ADJUST C102 to position the first 1 ns of the waveform as a natural extension of the top of the waveform. At this time the waveform should have an overshoot on the front comer of about 2% that lasts about 1/2+ns followed by an undershoot of about 1/2+% that lasts about 1/2+ns and then dampen to flat. The top of the pulse should have a linear tilt of about 1%.
- 22. Use MAIN POS and VERT OFFSET to position the active trace on top of the stored reference trace so they overlay 7 ns back from the front corner. As the active trace is tilted, it will not fully overlay past 7 ns.
- 23. ADJUST C103 and R101 so that the first 7 ns approximates the character of the stored waveform. The pulse will have an overshoot of about 2% on the very front corner that will not match the stored waveform. C102 should not need adjustment past Step 21.

NOTE

R101 will probably be near fully counterclockwise.

- 24. Repeat Steps 19 through 23 as necessary.
- 25. Set VERT SIZE to 50 mV/div and VERT OFFSET so the GND arrow is 2 divisions up from the bottom of the graticule.
- Set MAIN SIZE to 200 ps/div while using MAIN POS to keep the rising edge centered on the screen.
- 27. Push the MEASURE menu button.
- Touch MEASUREMENT. Touch RISE and WIDTH icons. Touch EXIT.
- 29. CHECK That the rise time is between 300 ps and 400 ps. The 11800 will have trouble resolving the rise time if the pulse on screen is moving relative to the pretrigger pulse. This will be seen as a change in the rise time numbers and horizontal movement on screen. This in no way affects the actual rise time of the PG 509 which will be the number in the center of the extremes of the rise times as measured and displayed by the 11801.
- 30. Set MAIN SIZE to 10 ns/div.
- 31. CHECK That the width is between 42 ns and 46 ns.
- 32. Push WAVEFORM button
- 33. Touch ACQUIRE DESC. Touch SET AvgN. Touch EXIT.
- 34. Adjust AVERAGE N to 2.
- Adjust MAIN POS to horizontally center the pulse and the VERT OFFSET to adjust the bottom of the pulse to a graticule line.

NOTE

The following portion of the procedure will check the PG 509 circuits that are controlled by signals normally supplied by the AT 5010. Ensure that the AT 5010 is not outputting signals to the PG 509 through the backplane connectors while using this procedure.

- Connect a wire from chassis GND to the PULSE AMPLITUDE CONTROL input. The output from the PG 509 should cease. Remove the wire.
- 37. Set the DM501A to the 2 mA range.
- 38. Connect a lead from the common of the PS503A 0 to -20 volt supply to the PG 509 GND. Connect the Green connector from the PS503A to the DM501A HI connector. Connect a wire in series with a 10 kΩ resistor from the DM501A LO input to the PG 509 AMPLITUDE CONTROL input. Push the PS503A OUTPUT switch to ON.
- Adjust the output voltage of the PS503A until the DM501A reads -1 mA. Adjust the oscilloscope display for a 5-division display.
- Adjust the output voltage of the PS503A until the DM501A reads -1.5 mA.
- CHECK That the oscilloscope display is approximately
 4.75 divisions in amplitude.
- Adjust the output voltage of the PS503A until the DM501A reads -0.5 mA.
- CHECK That the oscilloscope display is approximately
 5.25 divisions in amplitude.
- Adjust the output voltage of the PS503A until the DM501A reads < 0.4 mA.
- CHECK That the oscilloscope display amplitude is now controlled by the front-panel VARIABLE AMPLITUDE control.

MAINTENANCE AND DIAGNOSTICS

GENERAL MAINTENANCE



There is 200 V present on the circuit board. Only qualified personnel should remove the covers.

Static-Sensitive Components



Static discharge can damage any semiconductor component in this instrument.

This instrument contains electrical components that are susceptible to damage from static discharge. See Table 7-1 for relative susceptibility of various classes of semiconductors. Static voltages of 1 kV to 30 kV are common in unprotected environments.

Observe the following precautions to avoid damage:

- Minimize handling of static-sensitive components.
- Transport and store static-sensitive components or assemblies in their original containers, on a metal rail, or on conductive foam.
- Label any package that contains static-sensitive assemblies or components.
- Discharge the static voltage from your body by wearing a wrist strap while handling these components.
- Service static-sensitive assemblies or components only at static-free workstations by qualified service personnel.
- Nothing capable of generating or holding a static charge should be allowed on the work station surface.
- Keep the component leads shorted together whenever possible.

- Pick up components by the body, never by the leads.
- Do not slide the components over any surface.
- Avoid handling components in areas that have a floor or work surface covering capable of generating a static charge.
- Use a soldering iron that is connected to earth ground.
- Use only special antistatic suction type or wick type desoldering tools.

Table 7-1
Relative Susceptibility to Static Discharge Damage

Semiconductor Classes	Relative Susceptibility Levels ^a
MOS or CMOS microcircuits or discretes, or linear microcircuits with MOS inputs. (Most Sensitive)	1
ECL	2
Schottky signal diodes	3
Schottky TTL	4
High-frequency bipolar transistors	5
JFETs	6
Linear microcircuits	7
Low-power Schottky TTL	8
TTL (Least Sensitive)	9

"Voltage equivalent for levels:

1 = 100 to 500 V	4 = 500 V	7 = 400 to 1000 V (est)
2 = 200 to 500 V	5 = 400 to 600 V	8=900 V
3=250 V	6 = 600 to 800 V	9 = 1200 V

(Voltage discharged from a 100 pF capacitor through a resistance of 100 ohms.)

Maintenance and Diagnostics

Cleaning

This instrument should be cleaned as often as operating conditions require. Loose dust accumulated on the outside of the instrument can be removed with a soft cloth or small brush. Remove dirt that remains with a soft cloth dampened in a mild detergent and water solution. Do not use abrasive cleaners.



To clean the front panel use freon, isopropyl alcohol, or denatured ethyl alcohol. Do not use petroleum-based cleansing agents. Before using any other type of cleaner, consult your Tektronix Service Center or representative.

The best way to clean the interior is to blow off the accumulated dust with dry, low-velocity air (approximately 5 lb/in²) or use a soft brush or cloth dampened with a mild detergent and water solution.

Hold the board so the cleaning residue runs away from the connectors. Do not scrape or use an eraser to clean the edge connector contacts. Abrasive cleaning can remove the gold plating.



Circuit boards and components must be dry before applying power.

Obtaining Replacement Parts

Electrical and mechanical parts can be obtained through your local Tektronix Field Office or representative. However, it may be possible to obtain many of the standard electronic components from a local commercial source. Before purchasing or ordering a part from a source other than Tektronix, Inc., check the Replaceable Electrical Parts list for the proper value, rating, tolerance, and description.

NOTE

When selecting replacement parts, remember that the physical size and shape of a component may affect its performance in the instrument.

Some parts are manufactured or selected by Tektronix, Inc., to satisfy particular requirements or are manufactured for Tektronix,

Inc., to our specifications. Most of the mechanical parts used in this instrument have been manufactured by Tektronix, Inc. To determine the manufacturer, refer to the Replaceable Parts List and the Cross Reference Index, Mfr. Code Number to Manufacturer.

When ordering replacement parts from Tektronix, Inc., include the following information:

- Instrument type and option number.
- Instrument serial number.
- A description of the part (if electrical, include complete circuit number).
- 4. Tektronix part number.

Soldering Techniques

WARNING

To avoid electric-shock hazard, disconnect the instrument from the power source before soldering.

The reliability and accuracy of this instrument can be maintained only if proper soldering techniques are used when repairing or replacing parts. General soldering techniques which apply to maintenance of any precision electronic equipment should be used when working on this instrument. Use only 60/40 rosincore, electronic grade solder. The choice of soldering iron is determined by the repair to be made.



All circuit boards in the instrument are multilayer-type boards with a conductive path laminated between the top and bottom board layers. All soldering on these boards should be done with extreme care to prevent breaking the connections to this conductive path. Only experienced maintenance personnel should attempt to repair these boards.

When soldering on circuit boards or small wiring, use only a 15-watt, pencil type soldering iron. A higher wattage soldering iron can cause the etched circuit wiring to separate from the board base material and melt the insulation from small wiring. Always keep the soldering iron tip properly tinned to ensure the best heat transfer to the solder joint. Apply only enough heat to remove the component or to make a good solder joint. To protect heat sensitive components, hold the component lead with a pair of long-nose pliers between the component body and the solder joint. Use a solder removing wick to remove excess solder from connections or to clean circuit board pads.

Integrated Circuits

To remove in-line integrated circuits use an extracting tool. This tool is available from Tektronix, Inc.; order Tektronix Part Number 003-0619-00. If an extracting tool is not available, use care to avoid damaging the pins. Pull slowly and evenly on both ends of the integrated circuit. Try to avoid disengaging one end before the other end.

Multipin Connectors

The pin connectors used to connect the wires to the interconnecting pins are clamped to the ends of the wires. To replace damaged multipin connectors, remove the old pin connector from the holder. Do this by inserting a scribe between the connector and the holder and prying the connector from the holder. Clamp the replacement connector to the wire. Reinstall the connector in the holder.

If the individual end lead pin connectors are removed from the plastic holder, note the order of the individual wires for correct replacement in the holder. For proper replacement, see Figure 7-1.

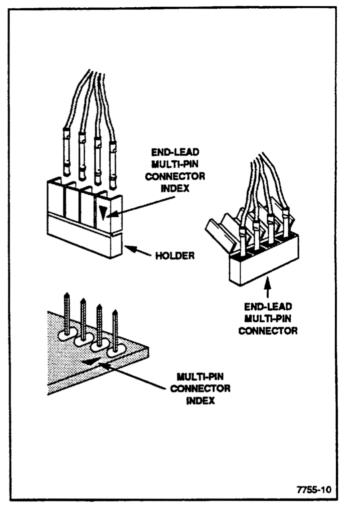


Figure 7–1. Orientation and disassembly of multipln connectors.

CIRCUIT BOARD REMOVAL AND INSTALLATION

SIDE COVERS

Before the Main board can be removed, the side covers must first be removed from the sides of the instrument chassis. Turn the side cover quarter turn fasteners, then lift the covers slightly and separate them from the notch at the rear of instrument.

MAIN BOARD

To remove the Main board from the instrument, perform these steps:

- Disconnect the 2 multi-pin connectors from near the front of the Main board. Then disconnect the Peltola connector near the bottom-front of the Main board.
- Remove the semi-rigid coax cable (left side of Instrument) with a 5/16-inch open end wrench.

- Remove the rear panel by removing the two guide pin fasteners at the bottom of the panel and two screws at the top of the panel. Use a 3/16-inch wrench on the guide pin fasteners.
- Remove 4 screws connecting the Main board to the instrument chassis.
- Lift the Main board forward and out of the instrument chassis.

To reinsert the Main board into the chassis, perform the reverse of the preceding steps.



Use extreme care when extracting the circuit board as many of its components may touch the frame of the instrument.

TROUBLESHOOTING

Troubleshooting the Main board is straightforward. Review Theory of Operation for an understanding of the circuit operation. Completing the Performance Check procedures in this manual may aid the diagnostic procedure.

Figure 7-2 provides a troubleshooting tree for most likely service problem encounters. For power supply problems, refer to the

TM 500 or TM 5000 Instruction Manuals. For unresolved or parts replacement problems, refer to the nearest Tektronix, Inc. Sales and Service Office (check at the back of your Tektronix Product Catalog).

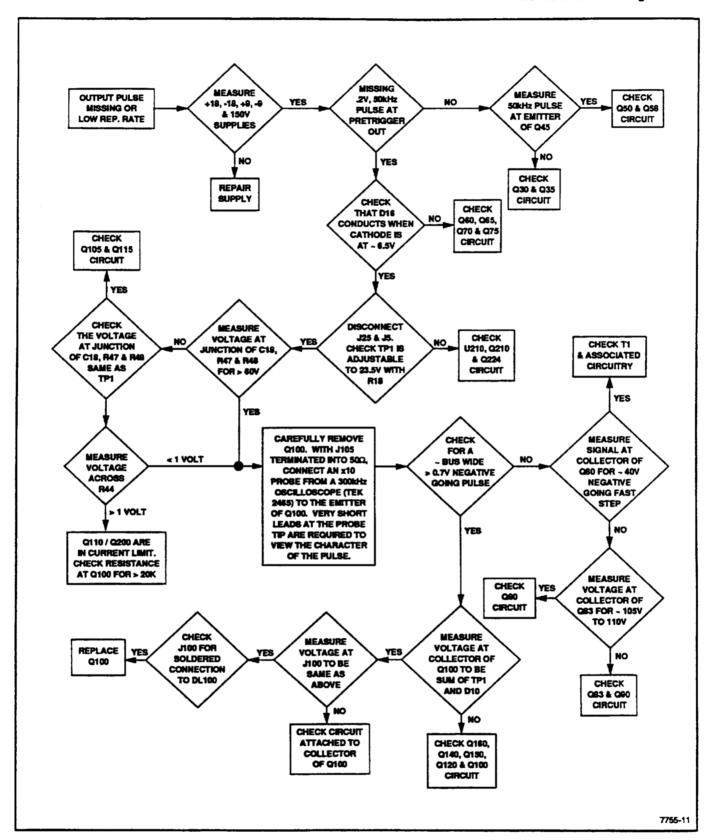


Figure 7-2. Troubleshooting Flowchart.

OPTIONS

No options are available.

REPLACEABLE ELECTRICAL PARTS

PARTS ORDERING INFORMATION

Replacement parts are available from or through your local Tektronix, Inc. Field Office or representative.

Changes to Tektronix instruments are sometimes made to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering department. It is therefore important, when ordering parts, to include the following information in your order: Part number, instrument type or number, serial number, and modification number if applicable.

If a part you have ordered has been replaced with a new or improved part, your local Tektronix, Inc. Field Office or representative will contact you concerning any change in part number.

Change information, if any, is located at the rear of this manual.

LIST OF ASSEMBLIES

A list of assemblies can be found at the beginning of the Electrical Parts List. The assemblies are listed in numerical order. When the complete component number of a part is known, this list will identify the assembly in which the part is located.

CROSS INDEX-MFR. CODE NUMBER TO MANUFACTURER

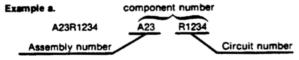
The Mfr. Code Number to Manufacturer index for the Electrical Parts List is located immediately after this page. The Cross Index provides codes, names and addresses of manufacturers of components listed in the Electrical Parts List.

ABBREVIATIONS

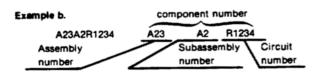
Abbreviations conform to American National Standard Y1.1.

COMPONENT NUMBER (column one of the Electrical Parts List)

A numbering method has been used to identify assemblies, subassemblies and parts. Examples of this numbering method and typical expansions are illustrated by the following:



Read: Resistor 1234 of Assembly 23



Read: Resistor 1234 of Subassembly 2 of Assembly 23

Only the circuit number will appear on the diagrams and circuit board illustrations. Each diagram and circuit board illustration is clearly marked with the assembly number. Assembly numbers are also marked on the mechanical exploded views located in the Mechanical Parts List. The component number is obtained by adding the assembly number prefix to the circuit number.

The Electrical Parts List is divided and arranged by assemblies in numerical sequence (e.g., assembly A1 with its subassemblies and parts, precedes assembly A2 with its subassemblies and parts).

Chassis-mounted parts have no assembly number prefix and are located at the end of the Electrical Parts List.

TEKTRONIX PART NO. (column two of the Electrical Parts List)

Indicates part number to be used when ordering replacement part from Tektronix.

SERIAL/MODEL NO. (columns three and four of the Electrical Parts List)

Column three (3) indicates the serial number at which the part was first used. Column four (4) indicates the serial number at which the part was removed. No serial number entered indicates part is good for all serial numbers.

NAME & DESCRIPTION (column five of the Electrical Parts List)

In the Parts List, an Item Name is separated from the description by a colon (:). Because of space limitations, an Item Name may sometimes appear as incomplete. For further Item Name identification, the U.S. Federal Cataloging Handbook H6-1 can be utilized where possible.

MFR. CODE (column six of the Electrical Parts List)

Indicates the code number of the actual manufacturer of the part. (Code to name and address cross reference can be found immediately after this page.)

MFR. PART NUMBER (column seven of the Electrical Parts List)

Indicates actual manufacturers part number.

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, Starte, Zip Code
	HE MI OCCUPATION		MILWALKEE WI 53204-2410
01121	ALLEN-BRADLEY CO	1201 2 SMD 21	DALLAS TX 75265
01295	TEXAS INSTRUMENTS INC	13500 N CENTRAL EXPT	UNLUG 1X 75205
	ALLEN-BRADLEY CO TEXAS INSTRUMENTS INC SEMICONDUCTOR GROUP GENERAL ELECTRIC CO	An econocia ec	AUBURN NY 13021
03508	GENERAL ELECTRIC W	M DENESEE 31	AUDURN NI 15021
04000	SEMI-CONDUCTOR PRODUCTS DEPT	19TH AVE SOUTH	MYRTLE BEACH SC 29577
04222	AVX CERAMICS	D O POV 957	HIRIEL BLADI SC 25577
04712	DIV OF AVX CORP	P 0 BOX 867 5005 E MCDOMELL RD	PHDENIX AZ 85008-4229
04713	MOTORDEN THE	SUUS E PICOUNIELL RU	FIREDISK AL COOKS FELS
05207	SEMICONDUCTOR PRODUCTS SECTOR	11901 MADISON AVE	CLEVELAND OH 44101
05397	UNION CARBIDE CORP MATERIALS SYSTEMS DIV	TISUI PADISON AVE	CLITEDIO ON THIS
05000	GENERAL INSTRUMENT CORP	600 W JOHN ST	HICKSVILLE NY 11802
05828	GOVERNMENT SYSTEMS DIV	000 W 30FM 31	HICKOTTEE III 1100E
07263	FAIRCHILD SEMICONDUCTOR CORP	10400 PIRCEVIEW CT	CUPERTINO CA 95014
0/263	HODEL ANEDTOAN CALES	10400 KIDGEVIEW C:	COLEMINO CH 03014
	CUD OF COULD DECED LTD MC 118		
12969	INITIONS COOP	5 ENDRES DO	LEXINGTON MA 02173-7305
14433	TIT CENTONNICTORS NIV	S TORDES AD	WEST PALM BEACH FL
14552	MICONCENT COOD	2830 S FAIRVIEW ST	SANTA ANA CA 92704-5948
19396	TILITANTS TONI WINDERS THE	1205 MCCONVILLE RD	LYNCHBURG VA 24502-4535
13330	PAYTON DIV	PO BOX 4539	
19701	MEPCO/CENTRALAR	5 FORBES RD 2830 S FAIRVIEW ST 1205 MCCONVILLE RD PO BOX 4539 PO BOX 760	MINERAL WELLS TX 76067-0760
13,01	A NORTH AMERICAN PHILIPS CO		
22526	DU PONT E I DE NEMOURS AND CO INC	515 FISHING CREEK RD	NEW CUMBERLAND PA 17070-3007
	DU PONT CONNECTOR SYSTEMS		
	DIV MILITARY PRODUCTS GROUP		
24931	DIV MILITARY PRODUCTS GROUP SPECIALTY CONNECTOR CO INC	2100 EARLYWOOD DR	FRANKLIN IN 46131
		PO POY 547	
514 0 6	MURATA ERIE NORTH AMERICA INC	2200 LAKE PARK DR	SHYRNA GA 30080
	HEADQUARTERS AND GEORGIA OPERATIONS		
56289	SPRAGUE ELECTRIC CO	92 HAYDEN AVE	LEXINGTON MA 02173-7929
	WORLD HEADQUARTERS		
57668	ROHM CORP	8 WHATNEY PO BOX 19515 4141 PALM ST	IRVINE CA 92713
		PO BOX 19515	D. I. COURSE O. A.
731 3 8	BECKMAN INDUSTRIAL CORP	4141 PALM ST	FULLERTON CA 92635
	BECKMAN ELECTRONIC TECHNOLOGIES		
	SUB OF EMERSON ELECTRIC		DCC DIATNEE IL COOLG-2040
75915	LITTELFUSE INC	800 E NORTHWEST HWY	DES PLAINES IL 60016-3049
	SUB TRACOR INC	4.44TO GU VADI POAIRI 20	BEAVERTON OR 97077-0001
80009		14150 SW KARL BRAUN DR	BEAVERIUM OR S7077-0001
		PO BOX 500	COLLIMBUS NE 68601-3632
91 63 7	DALE ELECTRONICS INC	DO DOV COO	CONTRACTOR INC. COUNT. 2005
TV: 4F6	TOWN COCHOC ELECTRIC CO. LTD.	2064 12TH AVE PO BOX 609 2-268 SOBUDAI ZAWA	KANAGAMA 228 JAPAN
TK1450	TOKYO COSMOS ELECTRIC CO LTD	2-200 SUDUURI ZAMA	MARINET PRO OLIVE

Technomic First First New 2 Description New 2 Description New 2 Description New 2 Percent New						
### ACC 201-0775-00			Serial/Assembly No.	N A B	Mfr.	Min Down No.
ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0775-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.1 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0788-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0789-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0789-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0789-00 CAP, FDO, CER D1:0.0 UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0789-00 CAP, FDO, CER D1:0. UF, 200, 50Y 0422 M20SEL10PMA ACCI 221-0789-00 CAP, FDO, CER D1:0. UF, 200, 50Y 0422 M20SEL10PMA M2022 M2	Component No.	Part No.	Effective Decont			
AGC2 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E100PMA AGC3 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC5 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC5 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC5 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC5 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC6 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC7 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC1 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC1 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC1 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC1 281-0775-00 CAP, FOU.CER 01:-0.1UF, 20X, 50Y 04222 M205E10PMA AGC1 281-0775-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205E10PMA AGC1 281-0785-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205E10PMA AGC1 281-0785-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205E10PMA AGC1 281-0785-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205E10PMA AGC1 281-0785-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0785-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0785-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC1 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC2 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA AGC2 281-0814-00 CAP, FOU.CER 01:-0.1UF, 10X, 10VV 04222 M205CAP1WA						
ACCS 281-0775-00 CAP, FDD, CER D1:0.1LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0775-00 CAP, FDD, CER D1:0.1LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0775-00 CAP, FDD, CER D1:0.1LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0775-00 CAP, FDD, CER D1:0.1LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0775-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0775-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0775-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0775-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0775-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0275-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0288-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0288-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0288-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0288-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0288-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0288-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 281-0287-00 CAP, FDD, CER D1:0.0LF, ZDC, SOV O422 M2CSCILLOWAN ACCS 2						
ACCES 281-0775-00						
ABCS 281-0775-00 CAP, FDD, CER D1:-0.1UF, 20X, 50V 0422 M205E1.004AA ABCS 281-0775-00 CAP, FDD, CER D1:-0.1UF, 20X, 50V 0422 M205E1.004AA ABCS 281-0775-00 CAP, FDD, CER D1:-0.1UF, 20X, 50V 0422 M205E1.004AA ABCS 281-0775-00 CAP, FDD, CER D1:-0.1UF, 20X, 50V 0422 M205E1.004AA ABCS 281-0775-00 CAP, FDD, CER D1:-0.1UF, 20X, 50V 0422 M205E1.004AA ABCS 281-0775-00 CAP, FDD, CER D1:-0.1UF, 20X, 50V 0422 M205E1.004AA ABCS 281-0775-00 CAP, FDD, CER D1:-0.1UF, 20X, 50V 0422 M205E1.004AA ABCS 280-1228-00 CAP, FDD, CER D1:-0.1UF, 20X, 50V 0422 M205E1.004AA ABCS 280-1228-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205E1.004AA ABCS 280-1228-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205E1.004AA ABCS 280-1228-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205E1.004AA ABCS 281-0778-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0778-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0814-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0814-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0814-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0814-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0814-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 10X, 100V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-0.5UF, 20X, 50V 0422 M205C1.004AA ABCS 281-0787-00 CAP, FDD, CER D1:-						
AGCS 281-0775-00 CAP, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCS 281-0775-00 CAP, F3D, CER D1:-0.1UF, 10X, 100V O4222 MA205E104MA AGCS 281-0775-00 CAP, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCID 281-0775-00 CAP, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCID 281-0775-00 CAP, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCID 281-0775-00 CAP, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCID 280-1238-00 CAP, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCID 280-1238-00 CAP, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCID 281-0.10F, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCID 281-0.10F, F3D, CER D1:-0.1UF, 20X, 50V O4222 MA205E104MA AGCID 281-0.10F, F3D, CER D1:-0.1UF, F3D, CER D1:-0.1UF, 7D, CER D1:						
ACCT 281-0773-00	AbC5	281-0//5-00		CAP, FAD, CER DI:0.10F, 20A, 50V	04222	PPZOJETO-KRAV
ACCT 281-0773-00 CAP, FXX.CER D1:0.01LF, 10X, 10V 0422 M-20CEI, 034A ACCI 281-0775-00 CAP, FXX.CER D1:0.1LF, 20X, 50V 0422 M-20CEI, 044A ACCI 281-0775-00 CAP, FXX.CER D1:0.1LF, 20X, 50V 0422 M-20CEI, 044A ACCI 280-1238-00 CAP, FXX.CER D1:0.1LF, 20X, 50V 0422 M-20CEI, 044A ACCI 280-1238-00 CAP, FXX.CER D1:0.1LF, 20X, 50V 0422 M-20CEI, 044A ACCI 280-1238-00 CAP, FXX.CER D1:0.1LF, 20X, 50V 0422 M-20CEI, 044A ACCI 280-1238-00 CAP, FXX.CER D1:0.7LF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-0788-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-0788-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-078-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-081-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.CER D1:0.7VF, 10X, 10XV 0422 SAL02CATIXAA ACCI 281-087-00 CAP, FXX.C	AGCS	281-0775-00		CAP.FXD.CER DI:0.1UF.20%.50V	04222	MA205E104MAA
AGCIO 281-0775-00 CPP, FXD, CER D1:0.11F, ZXD, SVV 0422 M20ECI.0944A AGCII 290-1238-00 CPP, FXD, CER D1:0.11F, ZXD, SVV 0422 M20ECI.0944A AGCII 290-1238-00 CPP, FXD, CER D1:0.11F, ZXD, SVV 0422 SAIQCATIKAA AGCII 290-1238-00 CPP, FXD, CER D1:0.10F, ZXD, TXDV 0422 SAIQCATIKAA AGCII 281-0788-00 CPP, FXD, CER D1:470F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-0788-00 CPP, FXD, CER D1:470F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-0788-00 CPP, FXD, CER D1:470F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-0797-00 CPP, FXD, CER D1:0.10F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-098-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-091-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FXD, CER D1:0.0F, IXX, IXXV 0422 SAIQCATIKAA AGCII 281-097-00 CPP, FX					04222	MA201C103KAA
ASCLIO 281-0775-00 CAP, F3D, CER D1:0.11F, 205, 50V 0422 M-205E104MA SCLI 290-1238-00 CAP, F3D, CERT D1:68PF, 250VC 80009 290-1238-00 CAP, F3D, CERT D1:68PF, 250VC 80009 290-1238-00 CAP, F3D, CERT D1:470PF, 10X, 100V 04222 SAL02C471YAA ACCLS 281-0778-00 CAP, F3D, CER D1:470PF, 10X, 100V 04222 SAL02C471YAA ACCLS 281-0778-00 CAP, F3D, CER D1:470PF, 10X, 100V 04222 SAL02C471YAA ACCLS 281-0778-00 CAP, F3D, CER D1:470PF, 10X, 100V 04222 SAL02C471YAA ACCLS 281-0979-00 CAP, F3D, CER D1:50PF, 10X, 100V 04222 SAL02C471YAA ACCLS 281-0914-00 CAP, F3D, CER D1:50PF, 10X, 100V 04222 SAL02C471YAA ACCLS 281-0914-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0914-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0914-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0914-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0918-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 M-10AL01FAA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0918-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0918-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0918-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0978-00 CAP, F3D, CER D1:10D FF, 10X, 100V 04222 SAL02CE 104MA SACLS 281-0978-				CAP, FXD, CER DI: 0.1UF, 20%, 50V	04222	MA205E104MAA
ASCI1 290-1238-00 CAP, FXD, CERT 11: 68PF, 2590CC 80009 290-1238-00 CAP, FXD, CERT 11: 68PF, 2590CC 80009 290-1238-00 CAP, FXD, CER D1: 470PF, 10X, 100V 0422 SAIGCA71IXAA ASCI4 281-0788-00 CAP, FXD, CER D1: 470PF, 10X, 100V 0422 SAIGCA71IXAA ASCI4 281-0788-00 CAP, FXD, CER D1: 470PF, 10X, 100V 0422 SAIGCA71IXAA ASCI4 281-0789-00 CAP, FXD, CER D1: 10X, DIV, 10X, 10V 0422 SAIGCA71IXAA ASCI5 281-0797-00 CAP, FXD, CER D1: 10X, DIV, 10X, 10V 0422 SAIGCA71IXAA ASCI5 281-0797-00 CAP, FXD, CER D1: 10X, DIV, 10X, 10V 0422 SAIGCA71IXAA ASCI5 281-0791-00 CAP, FXD, CER D1: 10X, DIV, 10X, 10V 0422 SAIGCA17IXAA ASCI2 281-081-00 CAP, FXD, CER D1: 10X, DIV, 10X, DIV, 10X, ASCI2 281-081-00 CAP, FXD, CER D1: 10X, DIV, 10X, DIV, 10X, ASCI2 281-081-00 CAP, FXD, CER D1: 10X, DIV, 10X, DIV, 10X, ASCI2 281-081-00 CAP, FXD, CER D1: 10X, DIV, 10X, DIV, 10X, ASCI2 281-0715-00 CAP, FXD, CER D1: 10X, DIV, 10X, DIV, 10X, ASCI2 281-0717-00 CAP, FXD, CER D1: 0X, DIV, 10X, DIV, 10X, ASCI2 281-0797-00 CAP, FXD, CER D1: 0X, DIV, 10X, DIV, 10X, ASCI2 281-0797-00 CAP, FXD, CER D1: 10X, DIV, 20X, SV 0422 SAIGCA17IXAA ASCI2 281-0797-00 CAP, FXD, CER D1: 10X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0797-00 CAP, FXD, CER D1: 10X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0797-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0997-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0997-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0979-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0979-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0979-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0979-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0979-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0975-00 CAP, FXD, CER D1: 0X, DIV, 20X, SV 05397 ASSIGNATIVE ASCI2 281-0975-00 CAP, FXD, CER D1: 0X, DIV, 10X, DIV,		281-0775-00		CAP, FXD, CER DI: 0.1UF, 20%, 50V		
AGC13 281-0788-00 CAP, FXD, CER D1:470F, 10X, 100V 04222 SA102C471KAA AGC14 281-0789-00 CAP, FXD, CER D1:470F, 10X, 100V 04222 SA102C471KAA AGC14 281-0789-00 CAP, FXD, CER D1:100 PF, 10X, 100V 04222 MAZD1C103XAA AGC16 281-0797-00 CAP, FXD, CER D1:100 PF, 10X, 100V 04222 MAZD1C103XAA AGC16 281-0797-00 CAP, FXD, CER D1:100 PF, 10X, 100V 04222 MAZD1C103XAA AGC18 283-0208-00 CAP, FXD, CER D1:100 PF, 10X, 100V 04222 MAZD1C103XAA AGC18 283-0208-00 CAP, FXD, CER D1:100 PF, 10X, 100V 04222 MAZD1C103XAA AGC12 281-0814-00 CAP, FXD, CER D1:100 PF, 10X, 100V 04222 MAZD1C10XAA AGC12 281-0788-00 CAP, FXD, CER D1:100 PF, 10X, 100V 04222 MAZD1C10XAA AGC22 281-0788-00 CAP, FXD, CER D1:100 PF, 10X, 100V 04222 MAZD1C10XAA AGC22 281-0789-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC22 281-0789-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC22 281-0797-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC23 281-0797-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC23 281-0797-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC26 281-0797-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC26 281-0797-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC26 281-0797-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC26 281-0797-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC26 281-0797-00 CAP, FXD, CER D1:101F, 20X, 50V 04222 MAZD1C471KAA AGC26 281-0814-00 CAP, FXD, CER D1:101F, 10X, 100V 04222 MAZD1C471KAA AGC31 281-0814-00 CAP, FXD, CER D1:101F, 10X, 100V 04222 MAZD1C471KAA AGC31 281-0814-00 CAP, FXD, CER D1:101F, 10X, 100V 04224 MAZD1C101KAA AGC31 281-0814-00 CAP, FXD, CER D1:101F, 10X, 100V 04224 MAZD1C101KAA AGC31 281-0814-00 CAP, FXD, CER D1:101F, 10X, 100V 04224 MAZD1C101KAA AGC31 281-0815-00 CAP, FXD, CER D1:101F, 20X, 50V 04224 MAZD1C103XA MAZD1C103						
AGC14 281-0788-00 CP, FID. CER D1:470F; 10X; 100V 0422 AGCATISAA AGC15 281-0737-30 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC16 281-0737-30 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC16 281-0737-30 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC17 281-0814-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC18 283-0208-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC18 283-0208-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC12 281-0814-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC23 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC23 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC24 290-0517-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC25 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC26 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC26 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC26 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC28 281-081-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC	A6C12	290-1238-00		CAP, FXD, ELCTLT: 68PF, 250VDC	8000 9	290-1238-00
AGC14 281-0788-00 CP, FID. CER D1:470F; 10X; 100V 0422 AGCATISAA AGC15 281-0737-30 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC16 281-0737-30 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC16 281-0737-30 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC17 281-0814-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC18 283-0208-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC18 283-0208-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC12 281-0814-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 100V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC22 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC23 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC23 281-0789-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC24 290-0517-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC25 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC26 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC26 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC26 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC27 281-0787-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC28 281-081-00 CP, FID. CER D1:10X; 10V 0422 AGCATISAA AGC				040 CVD 050 01 43005 10V 100V	D4222	CA100C471VAA
ACC15 221-0737-00 CP_FIXO_CER_D1:0.01UF_IXX_100V 04222 ALOCATIONA ACC17 221-0814-00 CP_FIXO_CER_D1:0.1EF_IXX_100V 04222 ALOCATIONA ACC17 221-0814-00 CP_FIXO_CER_D1:0.02UF_IXX_100V 04222 ALOCATIONA ACC17 221-0814-00 CP_FIXO_CER_D1:0.02UF_IXX_100V 04222 ALOCATIONA ACC12 221-0814-00 CP_FIXO_CER_D1:0.02UF_IXX_100V 04222 MAIOLAIOINAA ACC21 221-0814-00 CP_FIXO_CER_D1:0.00F_IXX_100V 04222 MAIOLAIOINAA ACC21 221-0814-00 CP_FIXO_CER_D1:0.00F_IXX_100V 04222 MAIOLAIOINAA ACC21 221-0788-00 CP_FIXO_CER_D1:0.00F_IXX_100V 04222 MAIOLAIOINAA ACC22 221-0788-00 CP_FIXO_CER_D1:0.00F_IXX_100V 04222 MAIOLAIOINAA ACC23 221-0788-00 CP_FIXO_CER_D1:0.01UF_IXX_59V 04222 MAIOLAIOINAA ACC23 221-0789-00 CP_FIXO_CER_D1:0.01UF_IXX_59V 04222 MAIOLAIOINAA ACC23 221-0797-00 CP_FIXO_CER_D1:0.01UF_IXX_59V 04222 MAIOLAIOINAA ACC25 221-0797-00 CP_FIXO_CER_D1:0.01UF_IXX_59V 04222 MAIOLAIOINAA ACC25 221-0797-00 CP_FIXO_CER_D1:0.01UF_IXX_59V 04222 MAIOLAIOINAA ACC26 221-0797-00 CP_FIXO_CER_D1:0.01UF_IXX_59V 04222 MAIOLAIOINAA ACC26 221-0614-00 CP_FIXO_CER_D1:0.01UF_IXX_59V 04222 MAIOLAIOINAA ACC26 221-0614-00 CP_FIXO_CER_D1:0.01UF_IXX_59V 04222 MAIOLAIOINAA ACC26 221-0614-00 CP_FIXO_CER_D1:0.00F_IXX_100V 04222 MAIOLAIOINAA ACC26 221-0615-00 CP_FIXO_CER_D1:0.00F_IXX_100V 04222 MAIOLAIOINAA ACC26 221-0713-00 CP_FIXO_CER_D1:0.00F_I						
ASC16 281-0797-00 CAP_FID_CER_D1:00F_10X;100V O4222 ASI_06A150XAA ASC18 283-0208-00 CAP_FID_CER_D1:100 FF_10X;100V O4222 ASI_06A150XAA ASC20 281-8814-00 CAP_FID_CER_D1:100 FF_10X;100V O4222 ASI_06A150XAA ASC21 281-0788-00 CAP_FID_CER_D1:100 FF_10X;100V O4222 ASI_0787-00 CAP_FID_CER_D1:00 FF_10X;100V O4222 ASI_0787-00 CAP_FID_CER_D1:00 FF_10X;100V O4222 ASI_0787-00 CAP_FID_CER_D1:00 FF_10X;100V O4222 ASI_0787-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_0787-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_0787-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_0787-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC26 281-0775-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC27 281-0787-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC28 285-0289-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC28 281-081-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC28 ASI_081-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC28 ASI_0775-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC30 ASI_0775-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC31 ASI_0775-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC31 ASI_0775-00 CAP_FID_CER_D1:00 LIF_20X;50V O4222 ASI_06A150XAA ASC31 ASI_0775-00 CAP_FID_CER_D1:00 LIF_20X;50V ASI_07X ASC32 ASI_07Y5-00 CAP_FID_CER_D1:00 LIF_20X						
ASC17 281-814-00 CAP, FXD, CER D1: 100 PF.10X, 100W 0422 SSECZEZMAN ASC20 281-814-00 CAP, FXD, CER D1: 100 PF.10X, 100W 0422 SSECZEZMAN ASC21 281-814-00 CAP, FXD, CER D1: 100 PF.10X, 100W 0422 SSECZEZMAN ASC21 281-814-00 CAP, FXD, CER D1: 100 PF.10X, 100W 0422 MAIDIAIDIAN ASC22 281-078-00 CAP, FXD, CER D1: 101 PF.10X, 100W 0422 SAIDCATHAN ASC22 281-0775-00 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC22 281-0775-00 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC25 CAP, FXD, CER D1: 0.11E-2XX, 50W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-2XX, 50W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-2XX, 50W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-2XX, 50W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-2XX, 50W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-2XX, 50W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-2XX, 50W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-2XX, 50W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHAN ASC26 CAP, FXD, CER D1: 0.10E-13-9F, 100W 0422 SAIDCATHA						
ASC16 283-0208-00 CAP, FXD, CER D1: 02.24F, 10X, 200W O4222 SR502C224KAA ASC20 281-0814-00 CAP, FXD, CER D1: 100 PF, 10X, 100W ASC21 281-0814-00 CAP, FXD, CER D1: 100 PF, 10X, 100W ASC22 281-0788-00 CAP, FXD, CER D1: 470PF, 10X, 100W ASC23 281-0775-00 CAP, FXD, CER D1: 01-07F, 10X, 100W ASC24 ASC25 281-0787-00 CAP, FXD, CER D1: 01-10F, 10X, 100W ASC26 ASC26 281-0787-00 CAP, FXD, CER D1: 10F, 10X, 100W ASC27 ASC27 ASC27 ASC27 ASC28 ASC27 281-0787-00 CAP, FXD, CER D1: 10F, 10X, 100W ASC28 ASC28 ASC29-0588-00 CAP, FXD, CER D1: 100 PF, 10X, 100W ASC28 281-0814-00 CAP, FXD, CER D1: 100 PF, 10X, 100W ASC30 281-0814-00 CAP, FXD, CER D1: 100 PF, 10X, 100W ASC31 ASC32 280-0517-00 CAP, FXD, CER D1: 100 PF, 10X, 100W ASC31 ASC32 280-0517-00 CAP, FXD, CER D1: 100 PF, 10X, 100W ASC31 ASC32 ASC34 ASC35 ASC35 ASC36 ASC36 ASC36 ASC36 ASC36 ASC37 ASC36 ASC37 ASC36 ASC37 ASC37 ASC37 ASC38 ASC38 ASC38 ASC39 A						• • • • • • • • • • • • • • • • • • • •
AGC20 281-0814-00 CAP, FDD, CER D1:100 PF, 10X, 100V 04222 MA10JA10JKAA AGC21 281-088-00 CAP, FDD, CER D1:400P F, 10X, 100V 04222 MA10JA10JKAA AGC22 281-0775-00 CAP, FDD, CER D1:401P, 10X, 100V 04222 MA10JA10JKAA AGC23 281-0775-00 CAP, FDD, CER D1:401P, 20X, 59V 04222 MA20ZATJKAA AGC24 280-0517-00 CAP, FDD, CER D1:0.10F, 20X, 59V 04222 MA20E2104MA AGC24 280-0517-00 CAP, FDD, CER D1:0.10F, 20X, 59V 04222 MA20E2104MA AGC25 281-0775-00 CAP, FDD, CER D1:15PF, 10X, 100V 04222 SA10GA150KAA AGC27 281-0797-00 CAP, FDD, CER D1:15PF, 10X, 100V 04222 SA10GA150KAA AGC27 281-0797-00 CAP, FDD, CER D1:15PF, 10X, 100V 04222 SA10GA150KAA AGC28 285-0589-00 CAP, FDD, CER D1:15PF, 10X, 100V 04222 MA20E103J AGC28 285-0589-00 CAP, FDD, CER D1:15PF, 10X, 100V 04222 MA20E103J AGC29 281-0814-00 CAP, FDD, CER D1:10D FF, 10X, 100V 04222 MA10JA10JKAA AGC31 281-0918-00 CAP, FDD, CER D1:10D FF, 10X, 100V 04222 MA10JA10JKAA AGC31 281-0918-00 CAP, FDD, CER D1:10D FF, 10X, 100V 04222 MA10JA10JKAA AGC31 281-0918-00 CAP, FDD, CER D1:10D FF, 10X, 100V 04222 MA10JA10JKAA AGC31 281-0918-00 CAP, FDD, CER D1:10D FF, 10X, 100V 04222 MA10JA10JKAA AGC31 281-0918-00 CAP, FDD, CER D1:00 JBF, 20X, 50V 04222 MA20E2IDMAA AGC32 290-0517-00 CAP, FDD, CER D1:00 JBF, 20X, 50V 04222 MA20E2IDMAA AGC32 281-0518-00 CAP, FDD, CER D1:00 JBF, 20X, 50V 04222 MA20E2IDMAA AGC102 281-0939-00 CAP, FDD, CER D1:-19F, 100V 51406 DX5126 AGC115 281-0773-00 CAP, FND, CER D1:-19F, 100V 51406 DX5126 AGC115 281-0773-00 CAP, FND, CER D1:-19F, 100V 51406 DX5126 AGC115 281-0773-00 CAP, FND, CER D1:-19F, 100V 51406 DX5126 AGC115 281-0773-00 CAP, FND, CER D1:-19F, 100V 51406 DX5126 AGC115 281-0773-00 CAP, FND, CER D1:-19F, 100V 51406 DX5126 AGC115 281-0773-00 CAP, FND, CER D1:-01UF, 20X, 50V 04222 MA20E1104MA AGC220 281-0775-00 CAP, FND, CER D1:-01UF, 20X, 50V 04222 MA20E1104MA AGC220 281-0775-00 CAP, FND, CER D1:-01UF, 20X, 50V 04222 MA20E1104MA AGC220 281-0775-00 CAP, FND, CER D1:-01UF, 20X, 50V 04222 MA20E1104MA AGC220 281-0775-00 CAP, FND, CER D1:-01UF, 20X, 50V 04222 MA20E1104MA AGC						
ASC21 281-0814-00 CAP_FID_CER_D1:10P_F_1DX;10OV OA222 MAJOLAIDIKAA	NO020	200 0200 00				
AGC22 281-0788-00 CAP_FOD_CER_D1:-470PF_10X_100V O422 SA102A71KAA AGC24 290-0517-00 CAP_FOD_CER_D1:-118_FOX_50V O422 SA102A71KAA AGC24 290-0517-00 CAP_FOD_CER_D1:-118_FOX_50V O422 SA102A71KAA AGC26 281-0775-00 CAP_FOD_CER_D1:-15FF_10X_100V O422 SA106A150KAA AGC26 281-0775-00 CAP_FOD_CER_D1:-15FF_10X_100V O422 SA106A150KAA AGC27 281-0787-00 CAP_FOD_CER_D1:-15FF_10X_100V 0422 SA106A150KAA AGC28 285-0588-00 CAP_FOD_CER_D1:-15FF_10X_100V 0422 SA106A150KAA AGC28 286-0588-00 CAP_FOD_CER_D1:-15FF_10X_100V 0422 SA106A150KAA AGC29 281-0814-00 CAP_FOD_CER_D1:-10F_10X_100V 0422 SA106A150KAA AGC30 281-0814-00 CAP_FOD_CER_D1:-10F_10X_100V 0422 MA101A101KAA AGC31 281-0775-00 CAP_FOD_CER_D1:-10F_10X_100V 0422 MA101A101KAA AGC31 281-0815-00 CAP_FOD_CER_D1:-10F_10X_100V 0422 MA101A101KAA AGC32 290-0517-00 CAP_FOD_CER_D1:-10F_10X_100V 0422 MA101A101KAA AGC31 281-0815-00 CAP_FOD_CER_D1:-10F_10X_100V 0422 MA101A101KAA AGC110 281-0839-00 CAP_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER_D1:-10F_FOD_CER	A6C20	281-0814-00		CAP, FXD, CER DI:100 PF, 10%, 100V		MA101A101KAA
### ### ### ### ### ### ### ### ### ##	A6C21	281-0814-00			04222	
AGC24 290-0517-00 CAP_FID_CER_DI:15FF_1DX_1DDV OS397 T36886899035A2						
ASC25 281-0779-00 CAP, FXD, CER DI: 15PF, 10X, 100V 04222 SA106A150KAA ASC26 281-0775-00 CAP, FXD, CER DI: 15PF, 10X, 100V 04222 MA20SE104MAA ASC27 281-0797-00 CAP, FXD, CER DI: 15PF, 10X, 100V 04222 MA20SE10AMAA ASC28 281-088-00 CAP, FXD, CER DI: 10PF, 10X, 100V 1936 DIMSOBIOSIA ASC29 281-0814-00 CAP, FXD, CER DI: 100 PF, 10X, 100V 04222 MA101A101KAA ASC30 281-0814-00 CAP, FXD, CER DI: 100 PF, 10X, 100V 04222 MA101A101KAA ASC31 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 20X, 50V 04222 MA101A101KAA ASC32 290-0517-00 CAP, FXD, CER DI: 0.1 UF, 20X, 50V 04222 MA101A101KAA ASC32 290-0517-00 CAP, FXD, CER DI: 0.1 UF, 20X, 50V 04222 MA101A101KAA ASC102 281-0151-00 CAP, FXD, CER DI: 0.1 UF, 20X, 50V 04222 MA101A101KAA ASC103 281-0151-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04222 MA101A101KAA ASC103 281-0151-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04222 MA101A101KAA ASC110 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04222 MA101A101AKAA ASC110 280-0517-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04222 MA101A101AKAA ASC110 280-0517-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04222 MA101A101AKAA ASC20 280-0517-00 CAP, FXD, CER DI: 0.1 UF, 20X, 50V 04222 MA101A101AKAA ASC20 280-0517-00 CAP, FXD, CER DI: 0.1 UF, 20X, 50V 04222 MA101A101AKAA ASC20 280-0517-00 CAP, FXD, CER DI: 0.1 UF, 20X, 50V 04222 MA101A101AKAA ASC20 280-0517-00 CAP, FXD, CER DI: 0.1 UF, 20X, 50V 04222 MA101A101AKAA ASC20 280-0517-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04222 MA101A101AKAA ASC20 280-0517-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04224 MA101A1A1AA ASC211 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04224 MA101A1A1AA ASC220 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04224 MA101A1AAA ASC220 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04224 MA101A1AAA ASC220 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04224 MA101A1AAA ASC220 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04224 MA101A1AAA ASC221 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 04224 MA101A1AAA ASC220 281-0775-00 CAP, FXD, CER DI: 0.1 UF, 10X, 100V 0422						
A6C26 281-0775-00 CAP, FDD, CER DI:-0.1UF, 20%, 50V 04222 SALD6AL50KAA A6C27 281-0797-00 CAP, FDD, CER DI:-15FF, 10%, 100V 04222 MADDAL50KAA A6C28 285-0589-00 CAP, FDD, CER DI:-15FF, 10%, 100V 04222 MADDAL50KAA A6C28 281-0814-00 CAP, FDD, CER DI:-100 FF, 10%, 100V 04222 MADDAL01KAA A6C30 281-0814-00 CAP, FDD, CER DI:-100 FF, 10%, 100V 04222 MADDAL01KAA A6C30 281-0775-00 CAP, FDD, CER DI:-101F, 20%, 50V 04222 MADDAL01KAA A6C31 281-0775-00 CAP, FDD, CER DI:-101F, 20%, 50V 04222 MADDAL01KAA A6C31 281-075-00 CAP, FDD, CER DI:-17F, 100V 04222 MADDAL01KAA A6C31 281-0151-00 CAP, VAR, CER DI:-1-3PF, 1,00V 04222 MADDAL01KAA A6C102 281-0151-00 CAP, VAR, CER DI:-1-3PF, 1,00V 04222 MADDAL01KAA A6C102 281-0151-00 CAP, VAR, CER DI:-1-3PF, 1,00V 051406 DNJ5125 DNJ5125 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C102 281-0151-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C102 280-0517-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C102 280-0517-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C102 280-0517-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C202 280-0517-00 CAP, FDD, CER DI:-0.101F, 20%, 50V 04222 MADDES 13686869035AZ A6C210 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C210 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C210 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C210 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C220 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C220 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C220 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C220 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C220 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C220 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C220 281-0775-00 CAP, FDD, CER DI:-0.101F, 10%, 1,00V 04222 MADDAL01KAA A6C211 281-0000 DW, CD, DI:RECT, SI,						
ASC27 281-0797-00 AP_FID_CER_DI_LSPF_1DX_1DOV AP_FID_CER_DI_LSPF_1DX_1DOV AP_FID_CER_DI_LSPF_1DX_1DOV AP_FID_CER_DI_LSD_N_1DOV AP_FID_CER_DI_LDD_F_1DX_1DOV AP_FI	A6C25	281-0797-00		CAP, FXD, CER DI: 15PF, 10%, 100V	04222	ZATOPATORAA
ASC27 281-0797-00 AP_FID_CER_DI_LSPF_1DX_1DOV AP_FID_CER_DI_LSPF_1DX_1DOV AP_FID_CER_DI_LSPF_1DX_1DOV AP_FID_CER_DI_LSD_N_1DOV AP_FID_CER_DI_LDD_F_1DX_1DOV AP_FI	VEC-SE	281_0775_00		CAP EXT CED DI -0 1HE 20% 50V	04222	MA205F104MAA
ASC28 285-0598-00 CAP_FIXD_PLSTIC-IO_01UF_SX_100V 19385 DUA90B103J ASC29 281-0814-00 CAP_FIXD_CER_B1:100_FI_TIX_100V 04222 MAIDIAIOIKAA ASC30 281-0814-00 CAP_FIXD_CER_B1:100_FI_TIX_100V 04222 MAIDIAIOIKAA ASC31 281-0775-00 CAP_FIXD_CER_B1:100_FI_TIX_100V 04222 MAIDIAIOIKAA ASC32 290-0517-00 CAP_FIXD_CER_B1:100_FI_TIX_100V 04222 MAIDIAIOIKAA ASC32 290-0517-00 CAP_FIXD_CER_B1:10_FI_TIX_100V 04222 MAIDIAIOIKAA ASC102 281-0151-00 CAP_FIXD_CER_B1:1-3FF_IXDOV 04222 MAIDIAIOIKAA ASC103 281-0151-00 CAP_WRC_CER_B1:1-3FF_IXDOV 04222 MAIDIAIRTDAA ASC103 281-0151-00 CAP_WRC_CER_B1:1-3FF_IXDOV 04222 MAIDIAIRTDAA ASC1103 281-0773-00 CAP_FIXD_CER_B1:1-3FF_IXDOV 04222 MAIDIAIRTDAA ASC1104 290-0517-00 CAP_FIXD_CER_B1:1-13FF_IXDOV 04222 MAIDIAIRTDAA ASC200 290-0517-00 CAP_FIXD_CER_B1:1-11F_ZXX_5OV 04222 MAIDIAIRTDAA ASC201 281-0775-00 CAP_FIXD_CER_B1:1-11F_ZXX_5OV 04222 MAIDIAIRTDAA ASC202 281-0775-00 CAP_FIXD_CER_B1:0-101F_ZXX_5OV 04222 MAIDIAIRTDAA ASC203 152-0066-00 SBHICOND DVC_D1:FIX_ZX_5OV 04222 MAIDIAIRTDAA ASC204 281-0775-00 SBHICOND DVC_D1:FIX_ZX_5OV 04222 MAIDIAIRTDAA ASC205 281-0775-00 SBHICOND DVC_D1:SX_SI_SXOV_ISDAM_AXID_C0-35 03508 MAIDIAIRTDAA ASC205 281-0775-00 SBHICOND DVC_D1:SX_SI_SXOV_ISDAM_AXID_C0-35 03508 DASC27 (IM4152) ASCR11 152-0323-00 SBHICOND DVC_D1:SX_SI_SXOV_ISDAM_AXID_C0-35 03508 DASC27 (IM4152) ASCR11 152-0323-00 SBHICOND DVC_D1:SX_SI_SXOV_ISDAM_AXID_D0-35 03508 DASC27 (IM4152) ASCR11 152-0141-02 SBHICOND DVC_D1:SX_SI_SXOV_ISDAM_AXID_D0-35 03508 DASC27 (IM4152) ASC						
ABC293 281-0814-00 CAP_FID_CER DI:100 PF_10X;100V 04222 MAIDIAIDIKA ABC30 281-0814-00 CAP_FID_CER DI:010 PF_10X;100V 04222 MAIDIAIDIKA ABC31 281-0775-00 CAP_FID_CER DI:0.11F_20X;50V 04222 MAIDIAIDIKA ABC32 290-0517-00 CAP_FID_CER DI:0.11F_20X;50V 04222 MAIDIAIDIKA ABC32 290-0517-00 CAP_FID_CER DI:0.11F_20X;50V 05397 T3686689N035AZ ABC100 281-0893-00 CAP_FID_CER DI:0.11F_20X;50V 04222 MAIDIAIRTDA ABC102 281-0151-00 CAP_WAR_CER DI:1-39F_100V 51406 DV.5126 ABC103 281-0151-00 CAP_WAR_CER DI:1-39F_100V 51406 DV.5126 ABC103 281-0773-00 CAP_FID_CER DI:0.10F_10X;100V 04222 MA2DISIORAA ABC192 281-0773-00 CAP_FID_CER DI:0.10F_10X;100V 04222 MAZDISIORAA ABC200 290-0517-00 CAP_FID_CER DI:0.10F_10X;35V 05397 T3688689N035AZ ABC201 281-0775-00 CAP_FID_CER DI:0.10F_10X;35V 05397 T3688689N035AZ ABC202 281-0773-00 CAP_FID_CER DI:0.10F_10X;50V 04222 MAZDISIORAA ABC203 290-0517-00 CAP_FID_CER DI:0.10F_10X;50V 04222 MAZDISIORAA ABC204 281-0773-00 CAP_FID_CER DI:0.10F_10X;50V 04222 MAZDISIORAA ABC205 281-0773-00 CAP_FID_CER DI:0.10F_10X;50V 04222 MAZDISIORAA ABC206 281-0773-00 CAP_FID_CER DI:0.10F_10X;50V 04222 MAZDISIORAA ABC207 281-0775-00 CAP_FID_CER DI:0.10F_10X;10V 04222 MAZDISIORAA ABC208 281-0773-00 CAP_FID_CER DI:0.10F_10X;10V 04222 MAZDISIORAA ABC209 281-0775-00 CAP_FID_CER DI:0.10F_10X;10V 04222 MAZDISIORAA ABC200 281-0773-00 CAP_FID_CER DI:0.10F_10X;10V 04222 MAZDISIORAA ABC201 281-0773-00 CAP_FID_CER DI:0.10F_10X;10V 04222 MAZDISIORAA ABC202 281-0773-00 CAP_FID_CER DI:0.10F_10X;10V 04222 MAZDISIORAA ABC203 152-0066-00 SBI(0000 DVC, DI:RETT, SI, 40DV, 1A, 00-41 05828 69106-020 ABC204 281-0707-00 SBI(0000 DVC, DI:RETT, SI, 40DV, 1A, 00-41 05828 69106-020 ABC205 152-0141-02 SBI(0000 DVC, DI:SW, SI, SOV, 150M, SOV, 00-35 03508 DA2527 (1M4152) ABCR11 152-0141-02 SB						DU490B103J
A6C30 281-0814-00 CAP_FXD_CER DI:100 PF_10X_100V 04222 MA10IAI0IKAA A6C31 281-0775-00 CAP_FXD_CER DI:0.1UF_20X_50V 04222 MA20SE104MA A6C32 290-0517-00 CAP_FXD_CER DI:4.7PF_+/-0.5PF_100V 04222 MA10IAIATDAA A6C102 281-0151-00 CAP_XBC_CER DI:4.7PF_+/-0.5PF_100V 51406 DV_5126 A6C103 281-0151-00 CAP_VBC_CER DI:1-3PF_100V 51406 DV_5126 A6C103 281-0151-00 CAP_YBC_CER DI:0.0UF_10X_100V 51406 DV_5126 A6C103 281-0773-00 CAP_FXD_CER DI:0.0UF_10X_100V 04222 MA20ICI03XAA A6C190 290-0517-00 CAP_FXD_CER DI:0.0UF_10X_10V 04222 MA20ICI03XAA A6C190 290-0517-00 CAP_FXD_CER DI:0.1UF_20X_55V 05397 T3686685M035AZ A6C192 281-0775-00 CAP_FXD_CER DI:0.1UF_20X_55V 05397 T3686685M035AZ A6C200 290-0517-00 CAP_FXD_CER DI:0.1UF_20X_55V 05397 T3686685M035AZ A6C201 281-0775-00 CAP_FXD_CER DI:0.1UF_20X_55V 05397 T3686685M035AZ A6C202 281-0775-00 CAP_FXD_CER DI:0.1UF_20X_55V 04222 MA20EE104MAA A6C202 281-0775-00 CAP_FXD_CER DI:0.1UF_20X_55V 04222 MA20EE104MAA A6C202 281-0773-00 CAP_FXD_CER DI:0.1UF_20X_55V 04222 MA20EE104MAA A6C203 152-0066-00 SPIICOND DVC_DI:RET_TSI_A0DV_1A_0D-41 05828 GP106-020 A6C035 152-0066-00 SPIICOND DVC_DI:RET_TSI_A0DV_1A_0D-41 05828 GP106-020 A6C035 152-0066-00 SPIICOND DVC_DI:RET_TSI_A0DV_1A_0D-41 105828 GP106-020 A6C031 152-0161-02 SPIICOND DVC_DI:RET_TSI_A0DV_1A_0D-035 03508 DA2527 (IM4152) A6C013 152-0141-02 SPIICOND DVC_DI:SN_SI_SOV_LSDM_SOV_DO-35 03508 DA2527 (IM4152) A6C014 152-0141-02 SPIICOND DVC_DI:SN_SI_SOV_LSDM_SOV_DO-35 03508 DA2527 (IM4152) A6C016 152-0141-02 SPIICOND DVC_DI:SN_SI_SOV_LSDM_SOV_DO-35 03508 DA2527 (IM4152) A6C017 152-0141-02 SPIICOND DVC_DI:SN_SI_SOV_LSDM_SOV_DO-35 03508 DA2527 (IM4152) A6C018 152-0141-02 SPIICOND DVC_DI:SN_SI_SOV_LSDM_SOV_DO-35 03508 DA2527 (IM4152) A6C019 152-0141-02 SPIICOND DVC_DI:SN_SI_SOV_LSDM_SOV_DO-35					04222	MA101A101KAA
A6C32 290-0517-00 CAP_FXD_CER_DI:-1.3PF_100V 04222 MA101A4R7DAA A6C102 281-0151-00 CAP_VAR_CER_DI:-1.3PF_100V 51406 DV.51226 A6C115 281-0151-00 CAP_VAR_CER_DI:-1.3PF_100V 51406 DV.51226 A6C115 281-0773-00 CAP_FXD_CER_DI:-0.01UF_10X_100V 04222 MA201C103KAA A6C109 290-0517-00 CAP_FXD_CER_DI:-0.01UF_10X_100V 04222 MA201C103KAA A6C190 290-0517-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C200 290-0517-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C200 290-0517-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA205E104MAA A6C201 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA205E104MAA A6C202 281-0773-00 CAP_FXD_CER_DI:-0.1UF_10X_100V 04222 MA205E104MAA A6C202 281-0773-00 CAP_FXD_CER_DI:-0.1UF_10X_100V 04222 MA201C103KAA A6C203 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C204 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C205 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C206 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C220 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C220 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C221 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C222 281-0775-00 CAP_FXD_CER_DI:-0.1UF_20X_50V 04222 MA201C103KAA A6C223 152-0066-00 SPHICOND DVC_DI:-RELT_SI,-40V_1A_DO-41 05828 GP10G-020 A6CR3 152-0066-00 SPHICOND DVC_DI:-RELT_SI,-40V_1A_DO-41 05828 GP10G-020 A6CR3 152-0066-00 SPHICOND DVC_DI:-RELT_SI,-40V_1A_DO-41 12869 GP127" A6CR11 152-013-00 SPHICOND DVC_DI:-RELT_SI,-40V_1A_DO-41 12869 GP127" A6CR11 152-0141-02 SPHICOND DVC_DI:-SV_SI,-35V_O.1A_DO-7 14433 MI518 A6CR12 152-041-02 SPHICOND DVC_DI:-SV_SI,-35V_O.1A_DO-35 03508 DA2527 (1M4152) A6CR15 152-0141-02 SPHICOND DVC_DI:-SV_SI,-35V_O.1A_DO-35 03508 DA2527 (1M4152) A6CR16 152-0141-02 SPHICOND DVC_DI:-SV_SI,-30V_150M_3,0V_D-035 03508 DA2527 (1M4152) A6CR17 152-0141-02 SPHICOND DVC_DI:-SV_SI,-30V_150M_3,0V_D-035 03508 DA2527 (1M4152) A6CR18 152-0141-02 SPHICOND DVC_DI:-SV_SI,-30V_150M_3,0V_D-035 03508 DA2527 (1M41		281-0814-00		CAP, FXD, CER DI:100 PF, 10%, 100V		
ASCIDO 281-0833-00 CAP, FXD, CER DI: 4.7PF, -V-O.5PF, 100V 04222 MAJOLARZIDAA MSC102 281-0151-00 CAP, VAR, CER DI: 1-3PF, 100V 51406 VJ.5126 MSC103 281-0151-00 CAP, VAR, CER DI: 1-3PF, 100V 51406 VJ.5126 MSC103 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MAZOLCI.03KAA MSC190 290-0517-00 CAP, FXD, ELCTI.T: 6.8UF, 20X, 35V 05397 T3688689N035AZ MSC200 290-0517-00 CAP, FXD, ELCTI.T: 6.8UF, 20X, 35V 05397 T3688689N035AZ MSC201 281-0775-00 CAP, FXD, ELCTI.T: 6.8UF, 20X, 35V 05397 T3688689N035AZ MSC201 281-0775-00 CAP, FXD, ELCTI.T: 6.8UF, 20X, 50V 04222 MAZOLCI.03KAA MSC201 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MAZOLCI.03KAA MSC201 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MAZOLCI.03KAA MSC211 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MAZOLCI.03KAA MSC211 281-0775-00 CAP, FXD, CER DI: 0.1UF, 10X, 100V 04222 MAZOLCI.03KAA MSC221 281-0775-00 CAP, FXD, CER DI: 0.1UF, 10X, 100V 04222 MAZOLCI.03KAA MSC221 281-0775-00 CAP, FXD, CER DI: 0.1UF, 10X, 100V 04222 MAZOLCI.03KAA MSC220 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MAZOLCI.03KAA MSC220 281-0775-00 CAP, FXD, CER DI: 0.1UF, 10X, 100V 04222 MAZOLCI.03KAA MSC220 281-0773-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MAZOLCI.03KAA MSC220 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSC250 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSCC86 152-0107-00 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSCC86 152-0107-00 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSCC86 152-0107-00 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSCC86 152-0107-00 SENICONO DVC, DI: SW, SI, 35V, 0.1A, DO-7 14433 MS1518 MS1527 MSCC811 152-0141-02 SENICONO DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) MSCC811 152-0141-02 SENICONO DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) SENICONO DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) SENICONO DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) SENICONO DVC, DI: SW, SI, 3	A6C31	281-0775-00		CAP,FXD,CER DI:0.1UF,20%,50V	04222	MA205E104MAA
ASCIDO 281-0833-00 CAP, FXD, CER DI: 4.7PF, -V-O.5PF, 100V 04222 MAJOLARZIDAA MSC102 281-0151-00 CAP, VAR, CER DI: 1-3PF, 100V 51406 VJ.5126 MSC103 281-0151-00 CAP, VAR, CER DI: 1-3PF, 100V 51406 VJ.5126 MSC103 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MAZOLCI.03KAA MSC190 290-0517-00 CAP, FXD, ELCTI.T: 6.8UF, 20X, 35V 05397 T3688689N035AZ MSC200 290-0517-00 CAP, FXD, ELCTI.T: 6.8UF, 20X, 35V 05397 T3688689N035AZ MSC201 281-0775-00 CAP, FXD, ELCTI.T: 6.8UF, 20X, 35V 05397 T3688689N035AZ MSC201 281-0775-00 CAP, FXD, ELCTI.T: 6.8UF, 20X, 50V 04222 MAZOLCI.03KAA MSC201 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MAZOLCI.03KAA MSC201 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MAZOLCI.03KAA MSC211 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MAZOLCI.03KAA MSC211 281-0775-00 CAP, FXD, CER DI: 0.1UF, 10X, 100V 04222 MAZOLCI.03KAA MSC221 281-0775-00 CAP, FXD, CER DI: 0.1UF, 10X, 100V 04222 MAZOLCI.03KAA MSC221 281-0775-00 CAP, FXD, CER DI: 0.1UF, 10X, 100V 04222 MAZOLCI.03KAA MSC220 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MAZOLCI.03KAA MSC220 281-0775-00 CAP, FXD, CER DI: 0.1UF, 10X, 100V 04222 MAZOLCI.03KAA MSC220 281-0773-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MAZOLCI.03KAA MSC220 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSC250 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSCC86 152-0107-00 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSCC86 152-0107-00 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSCC86 152-0107-00 SENICONO DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 MSCC86 152-0107-00 SENICONO DVC, DI: SW, SI, 35V, 0.1A, DO-7 14433 MS1518 MS1527 MSCC811 152-0141-02 SENICONO DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) MSCC811 152-0141-02 SENICONO DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) SENICONO DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) SENICONO DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) SENICONO DVC, DI: SW, SI, 3				040 PM FI 077 T C 015 000 35V	0E207	TOCODCOEMOSEA7
ASC102 281-0151-00 CAP, VAR, CER DI:1-3PF,100V 51406 DV,5126 ASC103 281-0151-00 CAP, VAR, CER DI:1-3PF,100V 51406 DV,5126 ASC103 281-0151-00 CAP, VAR, CER DI:1-3PF,100V 51406 DV,5126 ASC103 281-073-00 CAP, VAR, CER DI:1-3PF,100V 51406 DV,5126 ASC100 290-0517-00 CAP, FXD, CER DI:0.1UF, 10X, 100V 04222 MA205c104MAA ASC200 290-0517-00 CAP, FXD, CER DI:0.1UF, 20X, 50V 04222 MA205c104MAA ASC200 290-0517-00 CAP, FXD, CER DI:0.1UF, 20X, 50V 04222 MA205c104MAA ASC201 281-0773-00 CAP, FXD, CER DI:0.1UF, 10X, 100V 04222 MA205c104MAA ASC202 281-0773-00 CAP, FXD, CER DI:0.0UF, 10X, 100V 04222 MA205c103KAA ASC211 281-0773-00 CAP, FXD, CER DI:0.0UF, 10X, 100V 04222 MA201c103KAA ASC212 281-0775-00 CAP, FXD, CER DI:0.0UF, 10X, 100V 04222 MA201c103KAA ASC220 281-0775-00 CAP, FXD, CER DI:0.0UF, 20X, 50V 04222 MA205c103KAA ASC222 281-0773-00 CAP, FXD, CER DI:0.0UF, 20X, 50V 04222 MA205c103KAA ASC222 281-0773-00 CAP, FXD, CER DI:0.0UF, 10X, 100V 04222 MA205c103KAA ASC223 S81-0773-00 CAP, FXD, CER DI:0.0UF, 20X, 50V 04222 MA205c103KAA ASC226 281-0773-00 CAP, FXD, CER DI:0.0UF, 10X, 100V 04222 MA205c103KAA ASC226 281-0773-00 CAP, FXD, CER DI:0.0UF, 20X, 50V 04222 MA205c103KAA ASC227 S8HICOND DVC, DI:RECT, SI, 400V, 1A, 100-41 05828 GP106-020 ASCR5 152-0066-00 S8HICOND DVC, DI:RECT, SI, 400V, 1A, 100-41 05828 GP106-020 ASCR6 152-0107-00 S8HICOND DVC, DI:RECT, SI, 400V, 1A, 100-41 05828 GP106-020 ASCR1 152-0323-01 S8HICOND DVC, DI:SW, SI, 35V, 0.1A, 100-41 05828 GP106-020 ASCR1 152-0323-01 S8HICOND DVC, DI:SW, SI, 35V, 0.1A, 100-41 05828 GP106-020 ASCR1 152-0323-01 S8HICOND DVC, DI:SW, SI, 35V, 150M, 30V, 100-35 03508 DA2527 (1M4152) ASCR1 152-0141-02 S8HICOND DVC, DI:SW, SI, 35V, 150M, 30V, 100-35 03508 DA2527 (1M4152) ASCR1 152-0141-02 S8HICOND DVC, DI:SW, SI, 30V, 150Ma, 30V, 100-35 03508 DA2527 (1M4152) ASCR1 152-0141-02 S8HICOND DVC, DI:SW, SI, 30V, 150Ma, 30V, 100-35 03508 DA2527 (1M4152) ASCR1 152-0141-02 S8HICOND DVC, DI:SW, SI, 30V, 150Ma, 30V, 100-35 03508 DA2527 (1M4152) ASCR1 152-0141-02 S8HICOND DVC, DI:SW, SI, 30V, 150Ma						
ASC103 281-0151-00 CAP, VAR, CER DI:1-3PF,100V 51406 DVJ.5126 ASC115 281-0773-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA201C103XAA ASC190 290-0517-00 CAP, FXD, ELCTLT:6.8UF, 20X, 35V 05397 T36886859035AZ ASC200 290-0517-00 CAP, FXD, ELCTLT:6.8UF, 20X, 35V 05397 T36886859035AZ ASC201 281-0775-00 CAP, FXD, ELCTLT:6.8UF, 20X, 35V 05397 T36886859035AZ ASC201 281-0773-00 CAP, FXD, CER DI:0.1UF, 20X, 50V 04222 MA205E104MAA ASC202 281-0773-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC202 281-0773-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 281-0775-00 CAP, FXD, CER DI:0.1UF, 20X, 50V 04222 MA205E104MAA ASC220 281-0775-00 CAP, FXD, CER DI:0.1UF, 20X, 50V 04222 MA205E104MAA ASC222 281-0775-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC222 281-0773-00 CAP, FXD, CER DI:0.01UF, 20X, 50V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI:0.01UF, 20X, 50V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC227 281-0773-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC228 281-0773-00 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC229 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CER DI:0.01UF, 10X, 100V 04222 MA205E104MAA ASC220 CAP, FXD, CE						
ASC115 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA201C103KAA ASC190 290-0517-00 CAP, FXD, ELCTLT: 6.8UF, 20%, 35V 05397 T3688685M35AZ ASC200 290-0517-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 04222 MA205E104MAA ASC200 290-0517-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA205E104MAA ASC201 281-0775-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA205E104MAA ASC202 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA201C103KAA ASC211 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA201C103KAA ASC220 281-0775-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA205E104MAA ASC220 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 04222 MA205E104MAA ASC222 281-0773-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 04222 MA205E104MAA ASC222 281-0773-00 CAP, FXD, CER DI: 0.1UF, 10%, 100V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI: 0.1UF, 10%, 100V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA205E104MAA ASC226 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA205E104MAA ASC226 281-0773-00 SPHICOND DVC, DI: RECT, SI, 400V, 1A, D0-41 05828 GP10G-020 SPHICOND DVC, DI: RECT, SI, 400V, 1A, D0-41 05828 GP10G-020 SPHICOND DVC, DI: RECT, SI, 400V, 1A, D0-41 05828 GP10G-020 SPHICOND DVC, DI: RECT, SI, 400V, 1A, D0-41 12969 "G727" ASCR11 152-0107-00 SPHICOND DVC, DI: SW, SI, 35V, 0.1A, D0-7 14433 MG1518 MGCR12 152-0323-01 SPHICOND DVC, DI: SW, SI, 35V, 0.1A, D0-7 14433 MG1518 ASCR12 152-0323-01 SPHICOND DVC, DI: SW, SI, 35V, 0.1A, D0-7 14433 MG1518 MGCR13 152-0141-02 SPHICOND DVC, DI: SW, SI, 35V, 0.1A, D0-35 03508 DA2527 (1M4152) ASCR14 152-0141-02 SPHICOND DVC, DI: SW, SI, 35V, 0.1A, D0-35 03508 DA2527 (1M4152) ASCR15 152-0141-02 SPHICOND DVC, DI: SW, SI, 35V, 150M, 30V, D0-35 03508 DA2527 (1M4152) ASCR17 152-0141-02 SPHICOND DVC, DI: SW, SI, 30V, 150M, 30V, D						
ASC190 290-0517-00 CAP, FXD, CER DI: 0.1 LF, 20X, 50V 0422 MA205E104MAA ASC200 290-0517-00 CAP, FXD, CER DI: 0.1 LF, 20X, 50V 05397 T3688685M035AZ ASC201 281-0775-00 CAP, FXD, CER DI: 0.1 LF, 20X, 50V 05397 T3688685M035AZ ASC201 281-0773-00 CAP, FXD, CER DI: 0.1 LF, 20X, 50V 04222 MA205E104MAA ASC202 281-0773-00 CAP, FXD, CER DI: 0.0 LF, 10X, 100V 04222 MA201C103KAA ASC211 281-0773-00 CAP, FXD, CER DI: 0.0 LF, 10X, 100V 04222 MA201C103KAA ASC211 281-0775-00 CAP, FXD, CER DI: 0.0 LF, 20X, 50V 04222 MA201C103KAA ASC220 281-0775-00 CAP, FXD, CER DI: 0.0 LF, 20X, 50V 04222 MA201C103KAA ASC220 281-0775-00 CAP, FXD, CER DI: 0.0 LF, 20X, 50V 04222 MA201C103KAA ASC220 281-0773-00 CAP, FXD, CER DI: 0.0 LF, 20X, 50V 04222 MA201C103KAA ASC226 281-0773-00 CAP, FXD, CER DI: 0.0 LF, 20X, 50V 04222 MA201C103KAA ASC226 281-0773-00 CAP, FXD, CER DI: 0.0 LF, 20X, 50V 04222 MA201C103KAA ASC226 281-0773-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 ASCR5 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 ASCR6 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 ASCR6 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 12969 "G727" ASCR7 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 12969 "G727" ASCR1 152-0323-01 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) ASCR14 152-0323-01 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) ASCR14 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) ASCR16 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) ASCR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) ASCR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) ASCR18 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) ASCR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1M4152) ASCR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V,						
A6C192 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 05397 T3686685M035AZ A6C201 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 04222 MA205E104MAA A6C202 281-0773-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 04222 MA205E104MAA A6C202 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA20IC103KAA A6C211 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA20IC103KAA A6C220 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 04222 MA20SE104MAA A6C222 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 04222 MA20SE104MAA A6C222 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA20SE104MAA A6C226 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA20SE104MAA A6C226 281-0773-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, D0-41 05828 GP106-020 A6CR5 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, D0-41 05828 GP106-020 A6CR5 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, D0-41 12969 "G727" A6CR7 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400 V, 400MA, A1 12969 "G727" A6CR11 152-0323-01 SEMICOND DVC, DI: SM, SI, 35V, 0.1A, D0-7 14433 MG1518 A6CR12 152-0323-01 SEMICOND DVC, DI: SM, SI, 35V, 0.54, D0-7 14433 MG1518 A6CR13 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR14 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR18 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR18 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR18 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152)						
A6C200 290-0517-00 CAP, FXD, CER D1:0.1UF, 20X, 55V 05397 T3688685M035AZ A6C201 281-0775-00 CAP, FXD, CER D1:0.1UF, 20X, 50V 04222 MA205E104MAA A6C202 281-0773-00 CAP, FXD, CER D1:0.01UF, 10X, 100V 04222 MA201C103KAA A6C211 281-0773-00 CAP, FXD, CER D1:0.01UF, 10X, 100V 04222 MA201C103KAA A6C212 281-0775-00 CAP, FXD, CER D1:0.1UF, 20X, 50V 04222 MA201C103KAA A6C222 281-0775-00 CAP, FXD, CER D1:0.1UF, 20X, 50V 04222 MA205E104MAA A6C222 281-0773-00 CAP, FXD, CER D1:0.1UF, 20X, 50V 04222 MA205E104MAA A6C226 281-0773-00 CAP, FXD, CER D1:0.1UF, 10X, 100V 04222 MA205E104MAA A6C226 281-0773-00 SEMICOND DVC, D1:RECT, S1, 400V, 1A, 00-41 05828 GP10G-020 A6CR3 152-0066-00 SEMICOND DVC, D1:RECT, S1, 400V, 1A, 00-41 05828 GP10G-020 A6CR5 152-0066-00 SEMICOND DVC, D1:RECT, S1, 400V, 1A, 00-41 05828 GP10G-020 A6CR6 152-0107-00 SEMICOND DVC, D1:RECT, S1, 400 V, 400MA, A1 12969 "G727" A6CR7 152-0107-00 SEMICOND DVC, D1:RECT, S1, 400 V, 400MA, A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC, D1:SW, S1, 35V, 0. 1A, 00-7 14433 MG1518 A6CR12 152-0323-01 SEMICOND DVC, D1:SW, S1, 35V, 0. 1A, 00-7 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 150MA, 30V, 00-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, D1:SW, S1, 30V, 15						
A6C201 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MA205E104MAA A6C201 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MA201C103KAA A6C211 281-0775-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MA201C103KAA A6C220 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MA205E104MAA A6C222 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MA205E104MAA A6C222 281-0773-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MA205E104MAA A6C226 281-0773-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MA205E104MAA A6C23 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, 00-41 05828 6P10G-020 A6CR3 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, 1D-41 05828 6P10G-020 A6CR6 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, 1D-41 05828 6P10G-020 A6CR7 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 400MA, A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC, DI: SM, SI, 35V, 0.1A, D0-7 14433 MG1518 A6CR12 152-0323-01 SEMICOND DVC, DI: SM, SI, 35V, 0.1A, D0-7 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR14 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR15 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR18 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR18 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR18 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR18 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SM, SI, 30V, 150MA, 30V, D0-35 03508 DA2527 (1M4152) A						
A6C202 281-0773-00 CAP, FXD, CER DI: 0. 01UF, 10X, 100V 04222 MA201C103KAA A6C211 281-0775-00 CAP, FXD, CER DI: 0. 01UF, 10X, 100V 04222 MA201C103KAA A6C220 281-0775-00 CAP, FXD, CER DI: 0. 1UF, 20X, 50V 04222 MA205E104MAA A6C222 281-0775-00 CAP, FXD, CER DI: 0. 1UF, 20X, 50V 04222 MA205E104MAA A6C226 281-0773-00 CAP, FXD, CER DI: 0. 1UF, 10X, 100V 04222 MA201C103KAA A6C23 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 A6CR3 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 A6CR6 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 A6CR7 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 400MA, A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC, DI: RECT, SI, 400 V, 400MA, A1 12969 "G727" A6CR11 152-0323-01 SEMICOND DVC, DI: SW, SI, 35V, O. 1A, DO-7 1453 M51518 A6CR12 152-0141-02 SEMICOND DVC, DI: SW, SI, 35V, O. 1A, DO-35 03508 DA2527 (1N4152) A6CR13 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 1						
A6C211 281-0773-00 CAP_FXD_CER_DI: 0.1UF_10X_100V 04222 MA20IC103KAA A6C220 281-0775-00 CAP_FXD_CER_DI: 0.1UF_20X_50V 04222 MA20SE104MAA A6C222 281-0775-00 CAP_FXD_CER_DI: 0.1UF_20X_50V 04222 MA20SE104MAA A6C226 281-0773-00 CAP_FXD_CER_DI: 0.01UF_10X_100V 04222 MA20IC103KAA A6C236 281-0773-00 SEMICOND_DVC_DI: RECT_SI_400V_1A_DO-41 05828 GP106-020 A6CR3 152-0066-00 SEMICOND_DVC_DI: RECT_SI_400V_1A_DO-41 05828 GP106-020 A6CR5 152-0066-00 SEMICOND_DVC_DI: RECT_SI_400V_1A_DO-41 05828 GP106-020 A6CR6 152-0107-00 SEMICOND_DVC_DI: RECT_SI_400V_400MA_A1 12969 "G727" A6CR7 152-0107-00 SEMICOND_DVC_DI: SECT_SI_400V_400MA_A1 12969 "G727" A6CR11 152-0323-00 SEMICOND_DVC_DI: SW_SI_35V_0.1A_DO-7 14433 MG1518 A6CR12 152-0323-01 SEMICOND_DVC_DI: SW_SI_35V_0.1A_DO-7 14433 MG1518 A6CR12 152-0323-01 SEMICOND_DVC_DI: SW_SI_35V_0.1A_DO-7 14522 A6CR13 152-0141-02 SEMICOND_DVC_DI: SW_SI_30V_150MA_30V_DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND_DVC_DI: SW_SI_30V_150MA_30V_DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND_DVC_DI: SW_SI_30V_150MA_30V_DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND_DVC_DI: SW_SI_30V_150MA_30V_DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND_DVC_DI: SW_SI_30V_150MA_30V_DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND_DVC_DI: SW_SI_30V_150MA_30V_DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND_DVC_DI: SW_SI_30V_150MA_30V_DO-35 03508 DA2527 (1N4152)	A6C201			CAP, FXD, CER DI: 0.1UF, 20%, 50V		MAZUSE1U4MAA
A6C222 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MA205E104MAA A6C222 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20X, 50V 04222 MA205E104MAA A6C226 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10X, 100V 04222 MA201C103KAA A6CR3 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, 100-41 05828 GP10G-020 A6CR5 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, 100-41 05828 GP10G-020 A6CR6 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400 V, 400MA, A1 12969 "G727" A6CR7 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400 V, 400MA, A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC, DI: SW, SI, 35V, 0.1A, 100-7 14433 MG1518 A6CR12 152-0323-01 SEMICOND DVC, DI: SW, SI, 35V, 0.1A, 100-7 14433 MG1518 A6CR12 152-0323-01 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 100-35 03508 DA2527 (1M4152) A6CR13 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 100-35 03508 DA2527 (1M4152) A6CR15 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 100-35 03508 DA2527 (1M4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 100-35 03508 DA2527 (1M4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, 00-35 03508 DA2527						
A6C222 281-0775-00 CAP, FXD, CER DI: 0.1UF, 20%, 50V 04222 MA205E104MAA A6C226 281-0773-00 CAP, FXD, CER DI: 0.01UF, 10%, 100V 04222 MA201C103KAA A6CR3 152-0066-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP106-020 A6CR5 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400V, 1A, DO-41 05828 GP106-020 A6CR6 152-0107-00 SEMICOND DVC, DI: RECT, SI, 400 V, 400MA, A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC, DI: RECT, SI, 400 V, 400MA, A1 12969 "G727" A6CR11 152-0323-01 SEMICOND DVC, DI: SW, SI, 35V, 0.1A, DO-7 14433 WG1518 A6CR12 152-0323-01 SEMICOND DVC, DI: SW, SI, 35V, 0.1A, DO-7 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI: SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152)						
A6C226 281-0773-00 CAP,FXD,CER DI:0.01UF,10%,100V 04222 MA201C103KAA A6C83 152-0066-00 SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41 05828 GP10G-020 A6CR5 152-0107-00 SEMICOND DVC,DI:RECT,SI,400V,1A,DO-41 05828 GP10G-020 A6CR6 152-0107-00 SEMICOND DVC,DI:RECT,SI,400 V,400MA,A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC,DI:SW,SI,35V,0.1A,DO-7 14433 WG1518 A6CR12 152-0323-01 SEMICOND DVC,DI:SW,SI,35V,0.1A,DO-7 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)	MOLZZU	201-0773-00		CAP, PAD, CER DI.U.IO, 200, 501	OTICLE	TEODES TO THE TEODER
A6C226 281-0773-00 CAP, FXD, CER DI:0.01UF, 10%, 100V 04222 MA201C103KAA A6CR3 152-0066-00 SEMICOND DVC, DI:RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 A6CR5 152-0107-00 SEMICOND DVC, DI:RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 A6CR6 152-0107-00 SEMICOND DVC, DI:RECT, SI, 400 V, 400MA, A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC, DI:SW, SI, 35V, 0. 1A, DO-7 14433 WG1518 A6CR12 152-0323-01 SEMICOND DVC, DI:SW, SI, 35V, 0. 1A, DO-7 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152)	A6C222	281-0775-00		CAP.FXD.CER DI:0.1UF.20%.50V	04222	MA205E104MAA
A6CR3 152-0066-00 SEMICOND DVC, DI:RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 SEMICOND DVC, DI:RECT, SI, 400V, 1A, DO-41 05828 GP10G-020 A6CR6 152-0107-00 SEMICOND DVC, DI:RECT, SI, 400 V, 400MA, A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC, DI:SW, SI, 35V, 0. 1A, DO-7 14433 WG1518 A6CR12 152-0323-01 SEMICOND DVC, DI:SW, SI, 35V, 0. 1A, DO-7 14453 WG1518 A6CR12 152-0323-01 SEMICOND DVC, DI:SW, SI, 50V, 25PA AT 20V, 20PF 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35 03508 DA2527 (1N4152) A6CR1				CAP.FXD.CER DI:0.01UF.10%,100V	04222	MA201C103KAA
A6CR1 152-0107-00 SEMICOND DVC,DI:RECT,SI,400 V,400MA,A1 12969 "G727" A6CR1 152-0107-00 SEMICOND DVC,DI:RECT,SI,400 V,400MA,A1 12969 "G727" A6CR11 152-0323-00 SEMICOND DVC,DI:SW,SI,35V,0.1A,D0-7 14433 WG1518 A6CR12 152-0323-01 SEMICOND DVC,DI:SW,SI,55V,25PA AT 20V,20PF 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152)		152-0066-00		SEMICOND DVC, DI:RECT, SI, 400V, 1A, DO-41	05828	
A6CR1 152-0323-00 SEMICOND DVC,DI:SW,SI,35V,0.1A,DO-7 14433 WG1518 A6CR12 152-0323-01 SEMICOND DVC,DI:SW,SI,35V,0.1A,DO-7 14522 MT5127 A6CR13 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)	A6CR5	152-0066-00				
A6CR11 152-0323-00 SEMICOND DVC,DI:SW,SI,35V,0.1A,D0-7 14433 WG1518 A6CR12 152-0323-01 SEMICOND DVC,DI:SW,SI,50V,25PA AT 20V,20PF 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,D0-35 03508 DA2527 (1N4152)	A6CR6	152-0107-00				
A6CR12 152-0323-01 SEMICOND DVC,DI:SW,SI,50V,25PA AT 20V,20PF 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)	A6CR7	152-0107-00		SEMICOND DVC, DI: RECT, SI, 400 V, 400MA, Al	12969	6/2/
A6CR12 152-0323-01 SEMICOND DVC,DI:SW,SI,50V,25PA AT 20V,20PF 14552 MT5127 A6CR13 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)	400011	150 0000 00		CENTRONO DAY DIVERS OF SEN A 14 DO-7	14433	WG1518
A6CR13 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR14 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)						
ASCR14 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)						
A6CR15 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)				SEMICOND DVC.DI:SW.SI.30V.150MA.30V.DO-35		
A6CR16 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)				SEMICOND DVC.DI:SW.SI,30V,150MA,30V,D0-35		DA2527 (1N4152)
A6CR17 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150NA,30V,DO-35 03508 DA2527 (1N4152) A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150NA,30V,DO-35 03508 DA2527 (1N4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150NA,30V,DO-35 03508 DA2527 (1N4152)				SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35	03508	DA2527 (1N4152)
A6CR18 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1M4152) A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1M4152)						D4000 (41/450)
A6CR19 152-0141-02 SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35 03508 DA2527 (1N4152)		152-0141-02				
THE PARTY AND AS ASSESSED AND ASSESSED ASSESSED AND ASSESSED ASSESSEDANCE ASSESSEDANCE ASSESSEDANCE ASSESSEDANCE ASSESSEDAT				SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35		
A6CR20 152-0141-02 SEMICUMU DVC,D1:5W,S1,3UV,15UMA,3UV,DU-35 US5US UR252/ (1M4152)						
	A6CR20	152-0141-02		SEPILUMU UVC,UI:SW,S1,3UV,I5UPA,3UV,UU-35	w505	MESEL (TM135)

C	Tektronix	Serial/Assembly No.	Norma O Decembration	Mfr. Code	Mfr. Part No.
Component No.	Part No.	Effective Dscort	Name & Description		
A6CR21	152-0141 - 02		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	DA2527 (1N4152)
A6CR22	1 52-0141-0 2		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	DA2527 (1N4152)
A6CR23	152-0141-02		SEMICOND DVC.DI:SW.SI,30V,150MA,30V,DO-35	03508	DA2527 (1N4152)
A6CR203	152-0141-02		SEMICOND DVC.DI:SW.SI.30V.150MA.30V.DO-35	03508	DA2527 (1N4152)
A6CR203	152-0323-00		SEMICOND DVC,DI:SW,SI,35V,O.1A,DO-7	14433	WG1518
A6CR211	152-0141-02		SEMICOND DVC.DI:SW.SI,30V.150MA,30V.DO-35	03508	DA2527 (1N4152)
, 20,422	102 01 12 02				•
A6CR212	152-0141-02		SEMICOND DVC.DI:SW.SI.30V.150MA.30V.DO-35	03508	DA2527 (1N4152)
A6CR240	152-0141-02		SEMICOND DVC,DI:SW,SI,30V,150MA,30V,DO-35	03508	DA2527 (1N4152)
A6CR241	152-0141-02		SEMICOND DVC, DI:SW, SI, 30V, 150MA, 30V, DO-35	03508	DA2527 (1N4152)
A6CR242	152-0141-02		SEMICOND DVC.DI:SW,SI,30V,150MA,30V,DO-35	03508	DA2527 (1N4152)
A6CR243			SEMICOND DVC.DI:SW,SI,30V,150MA,30V,DO-35	03508	DA2527 (1N4152)
	152-0141-02		FUSE, WIRE LEAD: 1.5A, 125V, 5 SEC	75915	25501.5
A6F1	159-0159-00		PUSE, WIRE LEAD: 1.5A, 125V, 5 SEC	13513	23301.5
ACCO	150 0150 00		FUSE.WIRE LEAD: 1.5A, 125V, 5 SEC	7 59 15	25501.5
A6F2	159-0159-00		·	75915	25501.5
A6F3	159-0159-00		FUSE, WIRE LEAD: 1.5A, 125V, 5 SEC		65521-136
A6J5	131-1425 -0 0		CONN, RCPT, ELEC: RTANG HEADER, 1 X 36,0.1 SP	22526	05521-130
			(2 LOCATIONS)		00001 100
A6J25	131 -1425-0 0		CONN, RCPT, ELEC: RTANG HEADER, 1 X 36, 0.1 SP	22526	65521-136
			(3 LOCATIONS)		
A6J55	131-1003-00		CONN, RCPT, ELEC: CKT BD MT, 3 PRONG	8000 9	131-1003-00
A6J105	131-0663-00		CONN, RCPT, ELEC: 3MM CKT BD MT	24931	39JR162-1
A6Q10	151-0190-00		TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A6Q20	151-0188-00		TRANSISTOR: PNP.SI, TO-92	8000 9	151-0188-00
A6Q30	151-0188-00		TRANSISTOR: PNP.SI, TO-92	80009	151-0188-00
A6Q35	151-0188-00		TRANSISTOR: PNP,SI,TO-92	80009	151-0188-00
A6040	151-0188-00		TRANSISTOR: PNP, SI, TO-92	80009	151-0188-00
A6Q45	151-0190-00		TRANSISTOR: NPN,SI,TO-92	80009	151-0190-00
nuces	131-0130-00		HOADISTON.IN MIST, TO SE	-	
A6050	151-0369-00		TRANSISTOR: PNP.SI, X-55	04713	SPS8273
A6Q58	151-0369-00		TRANSISTOR: PNP.SI, X-55	04713	SPS8273
	-		TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A6Q60	151-0190-00			80009	151-0188-00
A6Q65	151-0188-00		TRANSISTOR: PNP, SI, TO-92	04713	ST899
A6Q70	151 -0302-0 0		TRANSISTOR: NPN, SI, TO-18		151-0190-00
A6Q75	151-0190-00		TRANSISTOR: NPN, SI, TO-92	80009	151-0190-00
			TRANSFERD NOW OF TO 10	04712	ST899
A6Q80	151-0302-00		TRANSISTOR:NPN,SI,TO-18	04713	
A6Q83	151-0350-00		TRANSISTOR: PNP, SI, TO-92	80009	151-0350-00 151-0347-00
A6Q90	151 -0347-0 0		TRANSISTOR:NPN,SI,TO-92	80009	151-0547-00
A6Q100			PART NUMBER TO BE DETERMINED		454 5047 50
A6Q105	151-0347-00		TRANSISTOR: NPN, SI, TO-92	80009	151-0347-00
A5Q110	151 -0 311 -0 1		TRANSISTOR:NPN,SI,TO-126	04713	SJE908
A6Q115	151-0350-00		TRANSISTOR: PNP, SI, TO-92	80009	151-0350-00
A6Q120	151-0350-00		TRANSISTOR: PNP,SI,TO-92	80009	151-0350-00
A5Q130	151-0347-00		TRANSISTOR: NPN, SI, TO-92	80009	151-0347-00
A6Q140	151-0347-00		TRANSISTOR: NPN, SI, TO-92	80009	151-0347-00
A6Q150	151-0347 -0 0		TRANSISTOR:NPN,SI,TO-92	80009	151-0347-00
A6Q160	151-1041-00		TRANSISTOR: FET, N-CHAN, SI, TO-71	04713	SFD1041
-					
A5Q190	151-0188-00		TRANSISTOR: PNP,SI,TO-92	80009	151-0188-00
A6Q200	151-0190-00		TRANSISTOR:NPN,SI,TO-92	80009	151-0190- 0 0
A6Q201	151-0190-00		TRANSISTOR: NPN.SI, TO-92	80009	151-0190 -0 0
A60210	151-0347-00		TRANSISTOR: NPN, SI, TO-92	80009	151-0347-00
A6Q220	151-0190-00		TRANSISTOR:NPN,SI,TO-92	80009	151-0190-00
A60221	151-0190-00		TRANSISTOR: NPN.SI.TO-92	80009	151-0190-00
underr	101-0190-00				
A6Q223	151-0190-00		TRANSISTOR: NPN, SI, TO-92	80009	151-0190-00
			TRANSISTOR: FET, N-CHAN, SI, TO-71	04713	SFD1041
A6Q224	151-1041-00		RES.FXD.FILM:1.82K OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 1KB2
A6R1	322-3218-00		RES, FXD, FILM: 100 OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 100E
A6R2	322-3097-00			01121	C83365
A6R3	307-0104-00		RES, FXD, CMPSN: 3.3 OHM, 5%, 0.25W	57668	CRB20 FXE 1K82
A6R4	322-3218-00		RES, FXD, FILM: 1.82K OHM, 1%, 0.2W, TC=TO	3/000	CUDEN LYF TURE
	200 2000 55		DEC EVO ETIM-TEV OLM TV A SU TO-TA	57668	CRB20 FXE 15K0
A6R5	322-3306-00		RES, FXD, FILM: 15K OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 1K00
A6R6	322-3193-00		RES, FXD, FILM: 1K OHM, 1X, 0.2W, TC=TO	3/000	PUDEO IVE TUMO

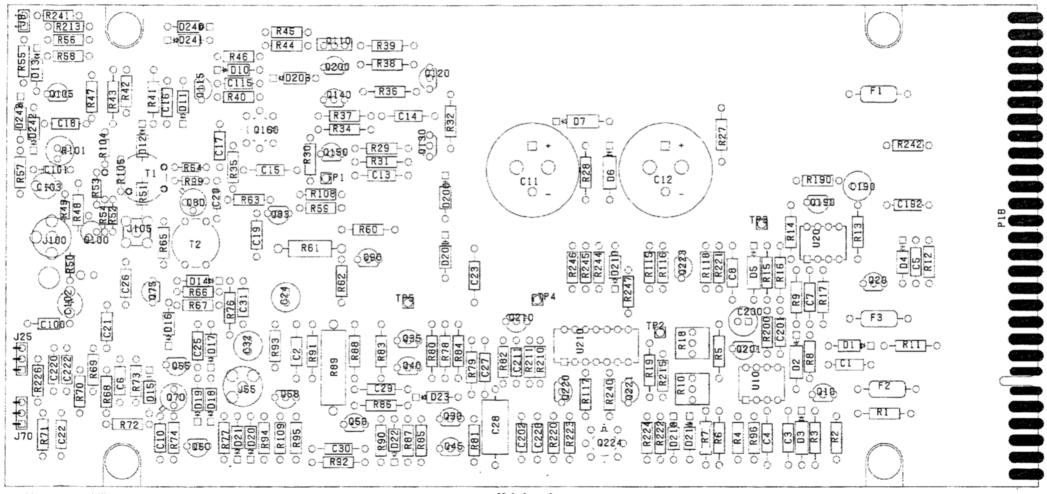
	Tektronix	Serial/Assembly No.		Mfr.	MC- Down No.
Component No.	Part No.	Effective Discount	Name & Description	Code	Mfr. Part No.
A6R7	322-3306-00		RES, FXD, FILM: 15K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 15K0
A6R8	322-3193 -0 0		RES, FXD, FILM: 1K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 1K00
A6R9	321-0603-07		RES.FXD.FILM:15K OHM.O.1%,0.125W,TC=T9	19701	5033RE15K008
A6R10	311-2236-00		RES, VAR, NONWY: TRMR, 20K OHM, 20%, 0.5W LINEAR	TK1450	
A6R11	322-3218-00		RES.FXD.FILM:1.82K OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 1K82
A6R12	322-3097-00		RES, FXD, FILM: 100 OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 100E
A6R13	307-0104-00		RES, FXD, CMPSN: 3.3 OHM, 5%, 0.25W	01121	CB33G5
A6R14	322-3218-00		RES, FXD, FILM: 1.82K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 1K82
A6R15	321-0603-07		RES,FXD,FILM:15K OHM,0.1%,0.125W,TC=T9	19701	5033RE15KD08
A6R16	321-0603-07		RES,FXD,FILM:15K OHM,0.1%,0.125W,TC=T9	19701	5033RE15K008
A6R17	321-0816-07		RES, FXD, FILM: 5K OHM, 0.1%, 0.125W, TC=T9	19701	5033RE5K000B
A6R18	311-2236-00		RES, VAR, NONWY:TRMR, 20K OHM, 20%, 0.5W LINEAR	TK1450	GF06UT 20K
A6R19	322-3481-00		RES, FXD, FILM: 1M OHN. 1%, 0.2W, TC=TO	57668	CRB20 FXE 1M00
A6R27	322-3450-00		RES, FXD, FILM: 475K OHM, 1%, 0.2W, TC=TO	91637	CCF50164753F
A6R28	322-3450-00		RES, FXD, FILM: 475K OHM, 1%, 0.2W, TC=T0	91637	CCF501G4753F
A6R29	322-3289 -0 0		RES, FXD, FILM: 10K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 10K0
A6R30	322-3289-0 0		RES, FXD, FILM: 10K OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 10K0
A6R31	322-3289-00		RES, FXD, FILM: 10K OHM, 1%, 0.2W, TC=T0	57 66 8	CRB20 FXE 10K0
A6R32	322-3450-00		RES, FXD, FILM: 475K OHM, 1%, 0.2V, TC=T0	91637	CCF501G4753F
A6R34	322-3289-00		RES, FXD, FILM: 10K OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 10K0
A6R35	322-3354-00		RES, FXD, FILM: 47.5K OHM, 1%, 0.2W, TC=TO	80009	322-3354-00
A6R36	322-3193-00		RES, FXD, FILM: 1K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 1K00
A6R37	322-3243-00		RES, FXD, FILM: 3.32K OHM, 1%, 0.2W, TC=T0	80009	322-3243-00
A6R38	322-3289-00		RES,FXD,FILM:10K OHM,1%,0.2W,TC=T0	57668	CR820 FXE 10K0
A6R39	322-3481-00		RES, FXD, FILM: 1M OHM. 1%, 0. 2W, TC=TO	57668	CRB20 FXE 1M00
A6R40	322-3354-00		RES, FXD, FILM: 47.5K OHM, 1%, 0.2W, TC=TO	80009	322-3354-00
A5R41	321-0983-00		RES, FXD, FILM: 4.5 MEG OHM, 1%, 0.125W, TC=TO	91637	CMF55116-G45003F
A6R42	322-3243-00		RES, FXD, FILM: 3.32K OHM, 1%, 0.2W, TC=TO	80009	322-3243-00
A6R43	322-3481-00		RES, FXD, FILM: 1M OHM. 1%, 0.2W, TC=TO	57668	CR820 FXE 1M00
A6R44	322-3097-00		RES,FXD,FILM:100 OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 100E
A6R45	322-3385-00		RES, FXD, FILM: 100K OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 100K
A6R46	322-3450-00		RES, FXD, FILM: 475K OHM, 1%, 0.2W, TC=T0	91637	CCF50164753F
A6R47	322-3097-00		RES, FXD, FILM: 100 OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 100E
A6R48	315-0472-03		RES, FXD, CMPSN: 4.7K OHM, 5X, 0.25W	01121	CB4725
A6R49	322-3148-00		RES, FXD, FILM: 340 OHM, 1%, 0.2W, TC=T0	80009	322-3148-00 CRB20 FXE 121E
A6R50	322-3105-00		RES,FXD,FILM:121 OHM,1%,0.2W,TC=T0	57668	CROZU FAC 121E
A6R51	317-0222-00		RES, FXD, CMPSN: 2.2K OHN, 5X, 0.125W	01121	882225 CR820 FXE 475E
A6R52	322-3162-00		RES.FXD,FILM:475 OHM,1%,0.2W,TC=T0	57668 E7668	CRB20 FXE 475E
A6R53	322-3162-00		RES, FXD, FILM: 475 OHM, 1%, 0.2W, TC=T0	57668 57668	CRB20 FXE 51E1
A6R54	322-3069-00		RES, FXD, FILM:51.1 OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 10K0
A6R55 A6R56	322-3289-00 322-3450-00		RES, FXD, FILM: 10K OHM, 1%, 0.2W, TC=T0 RES, FXD, FILM: 475K OHM, 1%, 0.2W, TC=T0	91637	CCF50164753F
			RES. FXD. FILM: 47.5K OHM, 1%, 0.2W, TC=T0	80009	322-3354-00
A6R57	322-3354-00			57668	CR820 FXE 8K25
A6R58	322-3281-00		RES.FXD,FILM:8.25K OHM,1%,0.2W,TC=T0 RES.FXD,FILM:6.81K OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 6K81
A6R59	322-3273-00			57668	CRB20 FXE 10K0
A6R60	322-3289-00		RES,FXD,FILM:10K OHM,1%,0.2W,TC=T0 RES,FXD,FILM:68K OHM,5%,0.5W	19701	5053CX68KD0J
A6R61 A6R62	301-0683-00 322-3289-00		RES,FXD,FILM:10K OHM,1X,0.2W,TC=T0	57 66 8	CRB20 FXE 10K0
			RES.FXD,CMPSN:4.7K OHM,5%,0.25W	01121	CB4725
A6R63	315-0472-03		RES.FXD,FILM:51.1 OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 51E1
A6R64	322-3069-00		RES.FXD,CMPSN:2K OHM,5%,0.25W	01121	CB2025
A6R65	315-0202-02		RES, FXD, FILM: 392 OHM, 1%, 0.2W, TC=TO	57668	RB20FX392E
A6R66	322-3154-00		RES, FXD, FILM: 47.5K OHM, 1%, 0.2W, TC=TO	80009	322-3354-00
A6R67 A6R68	322-3354-00 322-3097-00		RES, FXD, FILM: 100 OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 100E
	202_2160_00		RES.FXD.FILM:562 OHM.1%,0.2W,TC=T0	91637	CCF-50-5620-F
ASR69	322-3169-00		RES. FXD. FILM: B.25K OHM, 1X, 0.2W, TC=TO	57668	CRB20 FXE 8K25
A6R70	322-3281 -0 0 322-3193- 0 0		RES.FXD.FILM:1K OHM,1%,0.2W,TC=TO	57668	CR820 FXE 1K00
ASR71			RES, FXD, FILM: 475 OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 475E
A6R72	322-3162-00		meditanti emista assibutarputia, ia		

	T-1-4	Samial /Assambly, No.		Mfr.	
Component No.	Tektronix Part No.	Serial/Assembly No. Effective Decont	Name & Description	Code	Mfr. Part No.
A6R73	322-3243-00		RES.FXD.FILM:3.32K OHM.1%.0.2W.TC=T0	80009	322-3243-00
A6R74	322-3177-00		RES, FXD, FILM: 681 OHM, 1%, 0.2W, TC=TO	91637	CCF50-2G681R0F
A6R76	322-3177-00		RES.FXD.FILM:681 OHM,1%,0.2W,TC=TO	91637	CCF50-2G681R0F
A6R77	322-3243-00		RES.FXD, FILM: 3.32K OHM, 1%, 0.2W, TC=TO	80009	322-3243-00
A6R78	322-3281-00		RES.FXD.FILM:8.25K OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 8K25
				80009	322-3243-00
A6R79	322-3243 -0 0		RES, FXD, FILM: 3.32K OHM, 1%, 0.2W, TC=T0	80003	322-3240-00
A6R80	322-3210-00		RES, FXD, FILM: 1.5K OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 1K50
A6R81	322-3162-00		RES, FXD, FILM: 475 OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 475E
A6R82	322-3162-00		RES,FXD,FILM:475 OHM,1%,0.2W,TC=T0	5766 8	CRB20 FXE 475E
A6R83	322-3285 -0 0		RES, FXD, FILM: 9.09K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 9K09
A6R84	322 -3285-0 0		RES, FXD, FILM: 9.09K OHM, 1%, 0.2W, TC=TO	5766 8	CRB20 FXE 9K09
A6R85	322-3289-00		RES, FXD, FILM: 10K OHM, 1%, 0.2W, TC=TO	5766 8	CRB20 FXE 10K0
A6R86	322-3169-00		RES.FXD.FILM:562 OHM,1%,0.2W,TC=T0	91637	CCF-50-5620-F
A6R87	322-3097-00		RES, FXD, FILM: 100 OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 100E
A6R88	322-3273-00		RES, FXD, FILM: 6.81K OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 6K81
A6R89	303-0271-00		RES. FXD, CMPSN: 270 OHM, 5%, 1W	01121	GB2715
A6R90	322-3073-00		RES.FXD.FILM:56.2 OHM,1%,0.2W,TC=T0	80009	322-3073-00
A6R91	322-3273 -0 0		RES.FXD.FILM:6.81K OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 6K81
				00000	000 0170 00
A6R92	322-3173-00		RES, FXD, FILM: 619 OHM, 1%, 0.2W, TC=T0	80009	322-3173-00
A6R93	321-0076-0 0		RES, FXD, FILM: 60.4 OHM, 1%, 0.125W, TC=T0	91637	CMF55116GOR40F
A6R94	322-31 62-0 0		RES, FXD, FILM: 475 OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 475E
A6R95	321-0076-00		RES, FXD, FILM: 60.4 OHM, 1%, 0.125W, TC=T0	91637	CMF55116G0R40F
A6R96	322-3273-0 0		RES, FXD, FILM: 6.81K OHM, 1%, 0.2W, TC=TO	5766 8	CRB20 FXE 6K81
A6R99	322-3069-00		RES,FXD,FILM:51.1 OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 51E1
A6R101	311-0978-00		RES. VAR, NONAW: TRMR, 250 OHM, 0.5W	73138	82PR250-37C
A6R104	322-3069-00		RES.FXD.FILM:51.1 OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 51E1
A6R105	322-3069-00		RES.FXD.FILM:51.1 OHM.1%, 0.2W, TC=TO	57668	CRB20 FXE 51E1
A5R107	322-3385-00		RES, FXD, FILM: 100K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 100K
A6R108	322-3273-00		RES.FXD.FILM: 6.81K OHM. 1X. 0.2W, TC=TO	57668	CRB20 FXE 6KB1
A6R109	322-3162-00		RES.FXD, FILM: 475 OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 475E
ACDISE	222 2200 00		RES.FXD,FILM:10K OHM,1%,0.2W,TC=T0	57668	CRB20 FXE 10K0
A6R115	322-3289-00			57668	CRB20 FXE 10K0
A6R116	322-3289-00		RES, FXD, FILM: 10K 0HM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 10K0
A6R117	322-3289-00		RES, FXD, FILM: 10K OHM, 1%, 0.2W, TC=TO		CRB20 FXE 10KD
A6R118	322-3289-00		RES, FXD, FILM: 10K OHM, 1%, 0.2W, TC=T0	57668	CRB20 FXE 1K00
A6R190	322-3193-00		RES, FXD, FILM: 1K OHM, 1%, 0.2W, TC=TO	57668	
A6R210	322-3273-0 0		RES,FXD,FILM:6.81K OHH,1%,0.2W,TC=TO	57668	CRB20 FXE 6KB1
A6R211	322-3385-00		RES, FXD, FILM: 100K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 100K
A6R213	322-3289-0 0		RES,FXD,FILM:10K 0HM,1%,0.2W,TC=T0	57668	CRB20 FXE 10KD
A6R215	321-0345-00		RES, FXD, FILM: 38.3K OHM, 1%, 0.125W, TC=T0	19701	5043ED38K30F
A6R220	322-3481-00		RES, FXD, FILM: 1M OHM. 1X, 0.2W, TC=TO	57668	CRB20 FXE 1M00
A6R221	322-3289-00		RES, FXD, FILM: 10K OHM, 1X, 0.2W, TC=T0	57668	CRB20 FXE 10K0
A6R222	322-3385-00		RES, FXD, FILM: 100K OHM, 1%, 0.2W, TC=TO	57668	CRB20 FXE 100K
A6R223	322-3385-00		RES.FXD.FILM:100K 0HM,1%,0.2W,TC=T0	57668	CRB20 FXE 100K
AGR224	322-3385-00		RES. FXD. FILM: 100K OHM. 1%. 0. 2W. TC=T0	57668	CRB20 FXE 100K
A6R226	322-3450-00		RES.FXD.FILM:475K OHN,1%,0.2W,TC=TO	91637	CCF50164753F
	322-3450-00		RES.FXD.FILM:2.32K OHM,1X,0.2W,TC=T0	57668	CRB20 FXE 2K32
A6R240			RES.FXD.FILM:1K OHM,1%,0.2W,TC=TO	57668	CRB20 FXE 1K00
A6R241	322-3193-00			57668	CRB20 FXE 1K00
A6R242	322-3193-00		RES, FXD, FILM: 1K OHM, 1%, 0.2W, TC=TO	3/000	CHURCUIAL TRAC
A6R244	322-3193-00		RES, FXD, FILM: 1K OHM, 1X, 0.2W, TC=TO	57668	CRB20 FXE 1K00
A6R245	322-3450-00		RES, FXD, FILM: 475K OHM, 1%, 0:2W, TC=T0	91637	CCF50164753F
A6R246	322-3265-00		RES, FXD, FILM: 5.62K OHM, 1%, 0.2W, TC=TO	80009	322-3265-00
A6R247	322-3314-00		RES.FXD, FILM: 18.2K OHM, 1%, 0.2W, TC=TO	80009	322-3314-00
A6T1	120-0544-00		XFMR,TOROID:	80009	120-0544-00
A6T2	120-0550-00		XFMR, TOROID:	8000 9	120-0550-00
A6U10	156-0158-00		MICROCKT, LINEAR:BIPOLAR, DUAL OPNL AMPL	04713	MC1458P1/MC1458U
A6U20	156-0158-00		MICROCKT, LINEAR: BIPOLAR, DUAL OPNL AMPL	04713	MC1458P1/MC1458U
A6U210	156-1200-00		MICROCKT, LINEAR: BIFET, QUAD OPNL AMPL	01295	TL074CN
	152-0149-00		SEMICOND DVC, DI:ZEN, SI, 10V, 5X, 0.4W, DO-7	04713	1N961B
A6VR1	195-0149-00		or rough and a temptation to the talk of the temptation to	3	

	Tektronix	Serial/Assembly No.		Mfr.	
Component No.	Part No.	Effective Dscont	Name & Description	Code	Mfr. Part No.
A6VR2	152-0212-00		SEMICOND DVC.DI:ZEN.SI.9V.5%,0.5W.DO-7	04713	SZ50646RL
A6VR4	152-0149-00		SEMICOND DVC.DI:ZEN.SI.10V,5%,0.4W,DO-7	04713	1 N 961B
A6VR10	152-0580-00		SEMICOND DVC.DI:ZEN.SI.75V.2%,0.4W,DO-7	04713	SZ14358RL
A6VR200	152-0149-00		SEMICOND DVC.DI:ZEN.SI.10V.5%, 0.4W.DO-7	04713	1N961B
A6VR201	152-0149-00		SEMICOND DVC.DI:ZEN.SI.10V.5%,0.4W.DO-7	04713	1 N96 1B
A6VR210	152-0149-00		SEMICOND DVC.DI:ZEN.SI.10V.5%.0.4W.DO-7	04713	1N961B

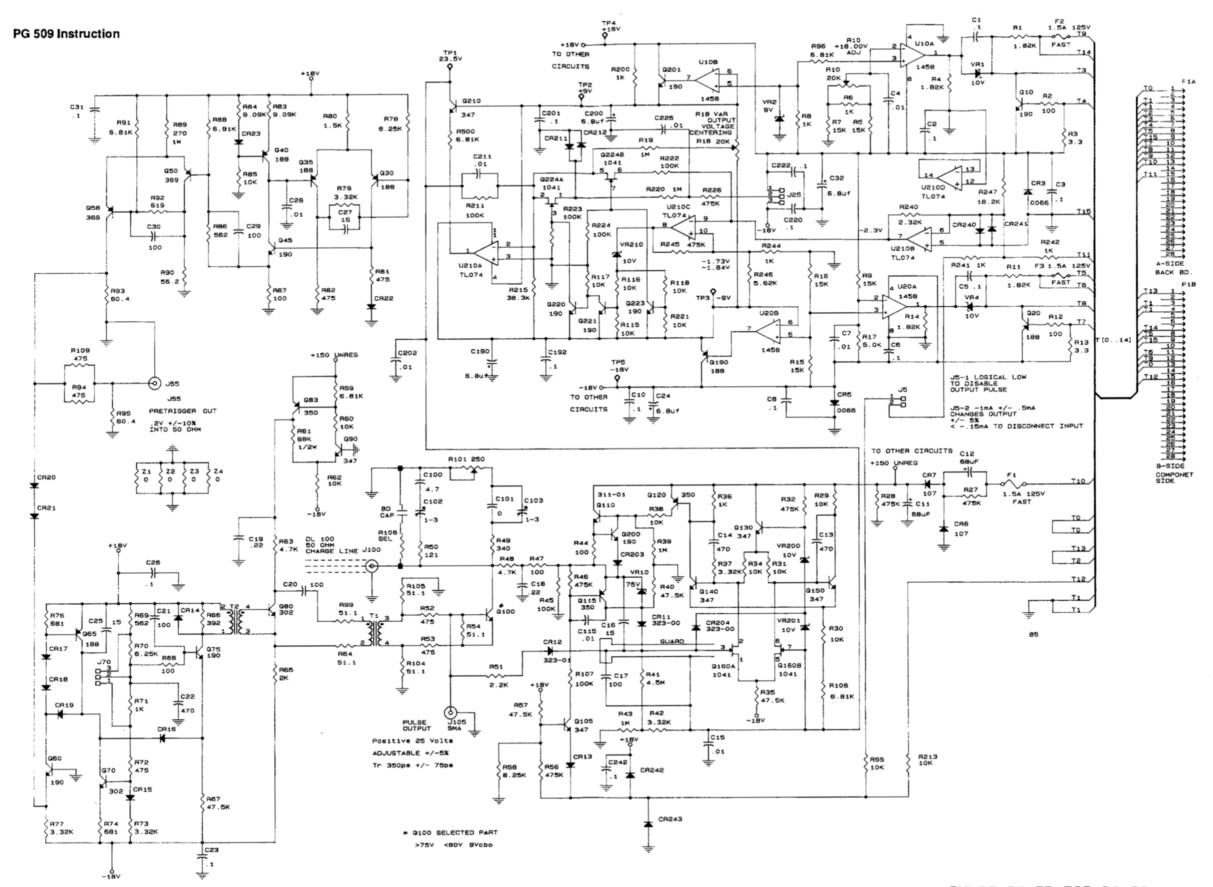
DIAGRAMS

PG 509 Instruction



http://manoman.sqhill.com

Main board.



REPLACEABLE MECHANICAL PARTS

PARTS ORDERING INFORMATION

Replacement parts are available from or through your local Tektronix, Inc. Field Office or representative.

Changes to Tektronix instruments are sometimes made to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering department. It is therefore important, when ordering parts, to include the following information in your order: Part number, instrument type or number, serial number, and modification number if applicable.

If a part you have ordered has been replaced with a new or improved part, your local Tektronix, Inc. Field Office or representative will contact you concerning any change in part number.

Change information, if any, is located at the rear of this manual.

ITEM NAME

In the Parts List, an item Name is separated from the description by a colon(:). Because of space limitations, an Item Name may sometimes appear as incomplete. For further Item Name identification, the U.S. Federal Cataloging Handbook H6-1 can be utilized where possible.

FIGURE AND INDEX NUMBERS

Items in this section are referenced by figure and index numbers to the illustrations.

INDENTATION SYSTEM

This mechanical parts list is indented to indicate item relationships. Following is an example of the indentation system used in the description column.

1 2 3 4 5

Name & Description

Assembly and/or Component Attaching parts for Assembly and/or Component

END ATTACHING PARTS

Detail Part of Assembly and/or Component Attaching parts for Detail Part

END ATTACHING PARTS

Parts of Detail Part Attaching parts for Parts of Detail Part

END ATTACHING PARTS

Attaching Parts always appear in the same indentation as the item it mounts, while the detail parts are indented to the right. Indented items are part of, and included with, the next higher indentation.

Attaching parts must be purchased separately, unless otherwise specified.

ABBREVIATIONS

Abbreviations conform to American National Standards Institute YI.I

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
12697	CLARDSTAT MFG CO INC	LOWER WASHINGTON ST	DOVER NH 03820
24931	SPECIALTY CONNECTOR CO INC	2100 EARLYWOOD DR PO BOX 547	FRANKLIN IN 46131
26805	M/A-COM OMNI SPECTRA INC MICROWAVE CONNECTOR DIV SUB OF M/A-COM INC	140 4TH AVE	WALTHAM MA 02154-7507
71279	INTERCONNECTION PRODUCTS INC	2601 S GARNSEY ST	SANTA ANA CA 92707-3338
77900	ILLINOIS TOOL WORKS SHAKEPROOF DIV	ST CHARLES RD	ELGIN IL 60120
80009	TEKTRONIX INC	14150 SW KARL BRAUN DR PO BOX 500	BEAVERTON OR 97077-0001
83385	MICRODOT MFG INC GREER-CENTRAL DIV	3221 W BIG BEAVER RD	TROY MI 48098
83486	ELCO INDUSTRIES INC	1101 SAMUELSON RD	ROCKFORD IL 61101
93907	TEXTRON INC CAMCAR DIV	600 18TH AVE	ROCKFORD IL 61108-5181
TK1326	NORTHWEST FOURSLIDE INC	18224 SW 100TH CT	TUALATIN OR 97062
TK1465	BEAVERTON PARTS MFG CO	1800 NW 216TH AVE	HILLSBORO OR 97124-6629
TK2278	COMTEK MANUFACTURING OF OREGON (METALS)	PO BOX 4200	BEAVERTON OR 97076-4200

Fig. &						Nfr.
Index	Tektronix	Serial/Asser Effective	-	Qty	12345 Name & Description	Code Mfr. Part No.
No	Part No.	Ellective	USCUIIL			
1-	105-0865-00			1	BAR, LATCH RLSE:	80009 105-0865-00 80009 105-0866-00
	105-0866-00			1	LATCH, RETAINING: SAFETY	80009 105-0932-00
	105-0932-00			1	LATCH, PANEL: SIDE	80009 119-3682-00
	119-3682-00			1	CHARGE LINE AS:PG509	80009 119-3749-00
	119-3749-00			1	CABLE, COAXIAL: SEMI RIGID, 2.5 L W/RTANG	26805 2084-5059-02
	131-0850-00			1	CONN, FEEDTHRU: 3MM FEMALE EA END	80009 131-1315-01
	131-1315-01			1	CONN, RCPT, ELEC:BNC, FEMALE	80009 131-1315-01
	131-4920-00			1	CONN, RCPT, ELEC: COPPER CHARGE LINE	
	136-0387-00			2	JACK, TIP:U/W 0.04 DIA PIN, GRAY	71279 4504352010318
	175-5 5 97 -0 0			1	CABLE ASSY, RF:50 OHM COAX, 6.5 L, 9-0	80009 175-5597-00
	175-5813-01			1	CA ASSY, SP, ELEC: 2,26 AMG, 6.5 L, RIBBON	80009 175-5813-01
	175-7571-00			1	CA ASSY, SP, ELEC: 3, 26 AMG, 4.5 L, RIBBON	80009 175-7571-00
	210-0046-00			1	WASHER, LOCK: 0.261 ID, INTL, 0.018 THK, STL	77900 1214-05-00-0541C
	211-0101-00			3	SCREW, MACHINE: 4-40 X 0.25, FLH, 100 DEG, STL	93907 ORDER BY DESCR
	211-0114-00			1	SCREW, MACHINE: 4-40 X 0.438, FLH, 100 DEG, STL	83385 ORDER BY DESCR
	213-0146-00			4	SCREW, TPG, TF: 6-20 X 0.312, TYPE B, PNH, STL	83385 ORDER BY DESCR
	213-0793-00			2	SCREW, TPG, TF:6-32 X 0.4375, TAPTITE, FILH	83486 239-006-406043
	214-3143-00			1	SPRING, HLEXT: 0.125 00 X 0.545 L, XLOOP	80009 214-3143-00
	214-3364-00			1	FASTENER, LATCH: ACETAL, SIL GRAY	80009 214-3364-00
	214-3406-00			1	SPRING, FLAT: 1.48 L X 0.125 W,CU BE	TK1326 ORDER BY DESCR
	220-0510-00			1	NUT, PLAIN, HEX: 0.25 X 0.312 HEX, AL	80009 220-0510-00
	220-0787-00			1	NUT, PLAIN, HEX: 0.25-36 X 0.312 HEX, SST	24931 HN109-10
	311-0170-00			1	RES, VAR, NONA/: PNL, 20K OHM, 0.5V	12697 381-CM26546
	333-3765-00			1	PANEL, FRONT:	8000 9 333-3765-00
	337-3039-00			2	SHIELD.ELEC:SIDE	TK2278 ORDER BY DESCR
	337-3627-00			1	SHIELD, ELEC: SUBPANEL, PG509	80009 337-3627-00
	342-0900-00			1	INSULATOR: FIBER. CHARGE LINE, PG509	80009 342-0900-00
	358-0342-00			ī	BSHG. MACH THD: 0.25-32 X 0.159 ID, AL ANDZ	80009 358-0342-00
	366-1851-00			1	KNOB, LATCH: SIL 6Y, 0.625 X 0.25 X 1.09	80009 366-1851-00
	386-3657-01			2	SUPPORT, PLUG-IN:	80009 386-3657-01
	386-4910-00			ī	SUPPORT, FRAME: REAR	80009 386-4910-00
	386-5985-00			ī	SUBPANEL FRONT:	80009 386-5985-00
	407-3905-00			2	BRACKET, MTG: 0.25 X 0.5, ALUMINUM	TK1465 ORDER BY DESCR
	426-0724-25			ī	FR SECT_PLUG-IN:BOTTOM	80009 426-0724-25
	426-0725-24			i	FR SECT. PLUG-IN: TOP	80009 426-0725-24
	720 0/23-24			•	IN ORDITION ATTITUTE	