

# POWER AMPLIFIER SERVICE MANUAL



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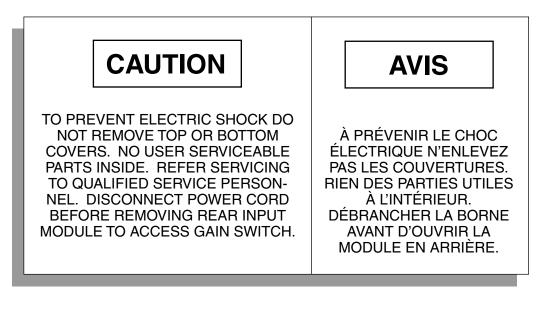
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The information furnished in this manual does not include all of the details of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during installation, operation or maintenance. If you need special assistance beyond the scope of this manual, please contact the Crown Technical Support Group.

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### WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!



The lightning bolt triangle is used to alert the user to the risk of electric shock.



The exclamation point triangle is used to alert the user to important operating or maintenance instructions.



### **Revision History**

<b>Revision Number</b>	Date	Comments
Rev. A	05-2001	Initial Printing
Rev. B	11-2002	Added missing parts list on Page 5-76. Updated area code and mailing address on Pages 1, 2 and 7. Updated sections 3.2.4, 4.3.3, 4.3.9, 4.4.5, 4.6.1, 4.6.8, 4.7.2, 4.7.3, Figure 4.16. Added notes to pages 5-39, 5-73, 5-97.



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### **1** Introduction

#### **1.1 Introduction**

This manual contains complete service information on the *Crown*<sup>®</sup> CE 4000 power amplifier. It is designed to be used in conjunction with the *CE 4000 Reference Manual*; however, some important information is duplicated in this Service Manual in case the *CE 4000 Reference Manual* is not readily available.



#### NOTE: THE INFORMATION IN THIS MANUAL IS INTENDED FOR USE BY AN EXPERIENCED TECHNICIAN ONLY!

#### 1.2 The CE 4000 Amplifier

The Crown CE 4000 is a compact audio amplifier designed for professional use, providing high-power amplification from 20 Hz–20 kHz with minimum distortion. The CE 4000 features Crown's patented, award-winning BCA® (Balanced Current Amplifier) engineering, for superior power output, increased efficiency, legendary Crown sound and extraordinary reliability. Crown's enhanced, switch-mode power supply with power factor correction allows the amplifier to be used worldwide without changing power supply components or settings. Other features include selectable on-board high-and low-pass filter sets, SST (System Solution Topologies) module compatibility, and a choice of dual output connectors: Speakon<sup>®</sup> plus 5-way barrier block, 5-way barrier block plus binding strip, or dual Speakon.

### 1.3 Scope

This Service Manual in intended to apply to all versions of the CE 4000 amplifier. The Parts Listings include parts specific for the US version and the European version. For parts specific only to other versions contact the Crown Technical Support Group for help in finding part numbers.

#### 1.4 Warranty

Each Reference Manual contains basic policies as related to the customer. In addition, it should be stated that this service documentation is meant to be used only by properly trained personnel. Because most Crown products carry a 3-Year Full Warranty (including round trip shipping within the United States), all warranty service should be referred to the Crown Factory or Authorized Warranty Service Center. See the applicable Reference Manual for warranty details. To find the location of the nearest Authorized Warranty Service Center or to obtain instructions for receiving Crown Factory Service, please contact the Crown Technical Support Group (within North America), or your Crown/Amcron Importer (outside North America). If you are an Authorized Warranty Service Center and have guestions regarding the warranty of a product, please contact the Field Service Manager or the Technical Support Group.

#### **Crown Customer Service**

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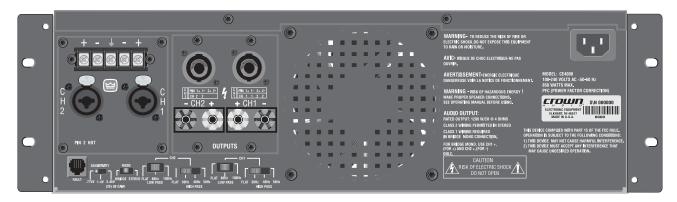


Figure 1.1 CE 4000 Front and Rear Views



### 2 Specifications

Note: All measurements are in Stereo mode with 8-ohm loads and an input sensitivity of 26-dB gain at 1-kHz rated power unless otherwise specified.

#### Power Output Power:

CE 4000 Power	Chart
Maximum power @ 1 kHz with 0.5% THD	
2 ohm Dual	1800W <sup>1</sup>
4 ohm Dual	1200W
8 ohm Dual	600W
4 ohm Bridge-Mono	3600W
8 ohm Bridge-Mono	2400W
1. ≥ 200-V line voltage.	

**Load Impedance:** Safe with all types of loads. Rated for 2, 4 and 8 ohms in Stereo mode, 4 and 8 ohms in Bridge-Mono mode.

#### Voltage Gain to 1-kHz, 8-ohm rated output:

39.0-dB gain at 0.775-volt sensitivity;

33.8-dB gain at 1.4-volt sensitivity;

26-dB gain at 3.46-volt sensitivity.

Required AC Mains: 50/60Hz,  $100-240VAC (\pm 10\%)$ .

#### AC Line Current,

100 Volts: 8.5 A; 120 Volts: 7.1 A; 230-240 Volts: 3.7 A;

At Idle: Amp draws no more than 155 watts.

AC Line Connector: 15A IEC Connector with Country

Specific Cord and Plug. Inrush Current\*: 50.86 A.

#### Performance

**Frequency Response:** ±0.25 dB from 20 Hz to 20 kHz at 1 watt (See Figure 2.1).

**Phase Response:** ±15 degrees deviation from linear phase from 20 Hz to 20 kHz at 1 watt.

**Signal to Noise Ratio, A-Weighted, 20 Hz to 20 kHz:** Better than 100 dB below rated 1-kHz power;

\* Per EN 55103-1: 1996 Annex B and Annex F. Highest reading from a sample of 10 random readings.

\*\* Measured using binding-post output connectors.

**Total Harmonic Distortion (THD):** 1-kHz rated power, 0.5% or less THD.

**Intermodulation Distortion (IMD):** (60 Hz and 7 kHz at 4:1) Less than 0.5% at rated power to 30 dB below rated power at 8 ohms.

**Damping Factor:** Greater than 700 from 10 Hz to 400 Hz.\*\*

**Crosstalk:** Better than 50 dB below rated power, 20 Hz to 20 kHz.

**Common Mode Rejection (CMR):** Better than 70 dB from 20 Hz to 1 kHz.

DC Output Offset (Shorted Input): ±10 mV.

#### **Controls & Connectors**

**Level:** A 31-step detented rotary level control for each channel located on the front panel.

**Power:** An on/off rocker switch located on the front panel.

**Mode:** Turn power off before switching. A two-position switch located on the back panel below the input connectors which, when turned to stereo, operates the amplifier as two independent channels. When "Bridge-Mono" mode is selected, the amplifier bridges the two output channels for twice the output voltage.

**Sensitivity:** A three-position switch located on the back panel next to the Mode switch. Switchable among 0.775 volts or 1.4 volts for full output into an 8-ohm load (default setting), or 3.46 volts for a fixed voltage gain of 26 dB.

**Fault Jack:** A back-panel RJ-11 jack that may be remotely monitored to signal amplifier Fault condition. An LED or other signalling device (not supplied) may be used.

#### Filter Switches:

**Low Pass:** A three-position switch for each channel located on the back panel below the input and output modules. Switchable among settings for Flat, 80 Hz and 100 Hz. Filter rolloff is 24-dB per octave.

**High Pass:** A four-position switch for each channel located on the back panel below the input and output modules. Switchable among settings for Flat, 30 Hz, 40 Hz and 50 Hz. Filter rolloff is 18-dB per octave.

#### Indicators

**Signal:** A green LED for each channel which flashes when a very low-level signal (>-40 dBm) is present at input. May be used for troubleshooting cable runs.

**Clip:** A red LED for each channel which turns on when distortion becomes audible in the amplifier output.



**Fault:** Normally off, this red indicator will blink under five different conditions:

1. When the amplifier is first powered up, until the unit is ready for operation.

2. If the heatsinks reach a temperature above normal working limits.

3. If the transformer thermal protection circuit is activated.

4. If amplifier output wires develop a short-circuit.

5. If the amplifier output stage becomes non-operational.

6. If there is a problem elsewhere in the amplifier.

This circuit may be monitored remotely by plugging a simple switching circuit using an LED or other signaling device into the back-panel RJ-11 (Fault) jack. Under some conditions, the output of the amplifier will be muted.

**Power:** A green LED that turns on when the amplifier has been turned on and has power.

#### Input/Output

**Input Connector (standard module):** One Neutrik® Combo connector for each channel which features a balanced ¼-inch (6.35-mm) phone jack and a 3-pin female XLR connector, in parallel with a barrier strip termination.

**Input Stage:** Input is electronically balanced and employs precision 1% resistors.

**Input Impedance:** Nominally 20 k ohms, balanced. Nominally 10 k ohms, unbalanced.

**Input Sensitivity:** 0.775 volts or 1.4 volts for standard 1-kHz power, or fixed 26-dB gain.

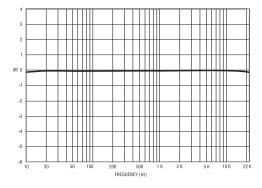


Figure 2.1 Typical Frequency Response

**Output Connectors:** Three options available: Four (4) Neutrik® Speakon® NL4MP (mates with NL4FC) output connectors; (2) 5-way binding posts in parallel with two (2) Speakon® connectors; or barrier strip outputs in parallel with two (2) 5-way binding posts.

#### Output Signal,

Stereo: Unbalanced, two-channel;

Bridge-Mono:Balanced, single-channel. Channel 1 controls are active; Channel 2 should be turned down.

Wiring Configuration: (see Figure: 2.2).

#### Protection

CE 4000 amplifiers are protected against shorted, open or mismatched loads; overloaded power supplies; excessive temperature, chain destruction phenomena, input overload damage and highfrequency blowups. They also protect loudspeakers from input/output DC, large or dangerous DC offsets and turn-on/turn-off transients.

#### Construction

Rugged steel chassis is formed into a durable package any stagehand could love. Coated with environmentally friendly powder for long life and ease of maintenance.

Cooling: Three-speed proportional speed fan.

**Dimensions:** EIA Standard 19-inch rack mount width (EIA RS-310-B), 5.25-inch (13.34-cm) height and 16.25-inch (36.56-cm) depth with additional 1-inch rear rack ears.

**Weight:** The CE 4000 net weight is 33.3 pounds (15.1 kg). Shipping weight is 39.3 pounds.

OUTPUT ASSIGNMENT				
PIN	СН		PIN	СН
1+	2		1+	1
1-	2	]	1-	1
2+			2+	2
2-		1	2-	2
CH-2 CH-1				

Figure 2.2 Output Pin Assignments



### **3 Theory of Operation**



**WARNING:** All voltages on the primary side of the flyback or bridge isolation transformers are not referenced to ground. They are referenced to the mains. When measuring these voltages with mains voltage applied, always use an isolation transformer to provide the mains voltage (and tie SMPSREF to signal ground) or use an isolated differential probe.

#### 3.1 Audio Signal Path

For the sake of simplicity, only channel one of the audio signal path is described.

#### 3.1.1 Input Stage

Signal is presented to the CE4000 through one of three connectors when using the standard input module. Each channel is outfitted with a balanced XLR / phone jack, and a barrier strip. These connectors are wired in parallel, which allows daisy chaining when needed. The incoming shield is tied to ground through an 82-Ohm resistor (R607) in parallel with a 0.1uF cap (C605) for the purpose of inhibiting ground loop circulating currents and RFI protection. The signal is then converted from balanced to unbalanced in the Balanced Input Stage where it receives further RFI protection. Input impedance is 20k Ohm balanced and 10k Ohm unbalanced. Signal then flows into the Variable Gain Stage where the front panel level controls are allowed to affect the gain.

The CE4000 amplifier comes with three input sensitivity selections: 0.775V, 1.4V, and fixed 26dB gain set by a switch on the Bridge/Fault/Gain (BFG) PWA. With the gain switch (S1) in the 0.775V position, R6 sets the gain while in the 1.4V position R5 in parallel with R6 set the gain. In the 26dB position, R4 in parallel with R6 set the gain. The signal is then put under the control of a full-time compressor circuit comprised of a symmetrical window detector, a buffer amplifier, and the gating op-amp which uses several small components to set the compressor's attack and decay characteristics. These components are found on the large main PWA. The actual compressing is accomplished by an opto-isolator (U1) on the BFG PWA that affects the gain in the signal path.

The signal then is passed through a series of switchable filters that allow the signal to be low pass and high pass filtered at various frequencies. The switches are located at the back panel. The low pass filter is a fourth-order Linkwitz-Riley type and the high pass filter is a third-order Butterworth type. These switches (S3 for the low pass and S5 for the high pass) and their necessary circuitry are found on the BFG PWA.

Inherent in all PWM amplifiers is a rise in gain at higher frequencies. Because of this, a 32 kHz 7thorder Gaussian low pass filter has been included in the input stage of the CE4000 (on the main PWA). The Gaussian filter-type is unique in that it has minimal ringing and excellent phase response so even a high-order filter such as this one does not adversely affect the sonic excellence of the product. U111-A, -B, -C and –D comprise this filter while U110-B and R178 form the gain calibration stage for this 7th order filter.

#### 3.1.2 Error Amplifier

The signal next enters the main amplifier error amp (U100-C) where it is mixed with a small portion of the output voltage and current in such a way as to control the amplifier's overall output performance. From the error amplifier, the signal is divided and fed to the modulator. Since the modulator circuit is balanced, the drive signal for the positive modulator is inverted by U100-D.

#### 3.1.3 Modulator

U101 and U103 are high-speed differential comparators. U101 is the positive comparator and U103 is the negative comparator. The comparator section has two outputs: inverting and non-inverting. The output is therefore balanced. The audio signal is applied to the inverting input of both differential comparators (with the positive modulator receiving the audio 180 degrees out of phase from the negative modulator). The 250 kHz triangle wave (described below) is applied to the non-inverting input of both differential comparators. With no audio signal, the bipolar triangle wave is therefore compared to a zero-volt signal and this results in a 250 kHz square wave pulse train that is passed to the NAND gate section of the differential comparator.

Each NAND gate has two inputs: the modulated signal from the high speed comparator section and the current limiter detect signal from U106-A. In the event of over-current, the current limiter signal is shut off disabling the NAND gates. This results in no



pulses exiting the comparators long enough to keep the current at an acceptable level.

If there is no current-limiting action, the balanced output of U101 forms the positive portion of the output waveform (Vp). The output of U103 is also balanced and forms the negative portion of the output waveform (Vn). These two balanced signal lines are routed to the output stage drivers, U119 and U123. If an audio signal is present at the inputs of the modulators, the triangle wave will be compared to a varying signal at the comparators and the outputs of the NAND gates will be a 250 kHz pulse train in which the widths of the pulses vary with the audio amplitude.

This operation is described as Pulse Width Modulation (PWM), as used in the BCA amplifier.

#### 3.1.4 Triangle Generator

The 250 kHz triangle wave has its origins from the 4MHz generator (clock generation is described in the power supply section). After U224-A divides the 500kHz square wave down to 250 kHz, U105 converts the signal from a 0V-5V square wave to a -5V to +5V triangle wave that is extremely accurate. R171, C159, C153, C154, R168, and R169 provide the feedback loop to the linear IC U105. The potentiometer R170 allows the triangle wave to be DC offset in order to change the overlap/underlap characteristics of the output stage. Overlap/underlap is analogous to the bias adjustment made in linear output stages but it does not require a temperature sense to prevent thermal runaway. The output of U105 is routed to the non-inverting inputs of the modulators.

A note on the triangle generator for channel two: Before the frequency is divided down by two, the 500 kHz clock is inverted by U106-B. This effectively shifts the channel two triangle wave 90 degrees from that of channel one.

#### 3.1.5 Output

The PWM modulated 250 kHz signals exit the modulators and enter the output stage via optocouplers U119 (Vp) and U123 (Vn). These optocouplers give electrical isolation from the low voltage circuitry to the high voltage output circuitry. The output of U119 and U123 are then sent to the output MOSFET drivers. U120 and U121 are dual inverting high-speed drivers designed to interface low current digital circuitry (U119 and U123) with power MOSFETs (also abbreviated FETs). U120 and U121 are used to drive the gates of the output FETs (Q106-Q113).

In order to produce gate drive power to the drivers, a floating supply is generated for the Vp side. This supply uses U124-A and U124-B to divide the 500kHz clock down to 125 kHz. The half-bridge driver U22 uses this 125 kHz clock to control the high-side and low-side FETs in the dual FET IC U23 so that the output of U23 is alternately connected to +15VPS and ground. The rate of current rise is kept in control by the inductance of transformer T101. The end result is that the output of U23 is a square wave of 15V amplitude and approximately 50% duty cycle that is used as the primary excitation for the transformers. The transformer provides the required isolation and the secondary AC is converted back to DC by diodes D131 and D132 and filter capacitors C316-C319. The Vn side receives gate driver power from the flyback PWA (see below) and this power is referenced to the -Vcc rail.

We pause now for a qualitative description of output stage operation (refer to Figure 4.1). All parts to the left of "lout" are positive or "p" side parts and all parts to the right of "lout" are negative or "n" side parts. The switches Swp and Swn are analogous to the FETs. Quiescent operation will be considered first. At the start of a switching cycle Swp and Swn are both turned on. Current flows from +Vcc, through Swp, through Lp, through Ln, through Swn, and down to -Vcc. The current rises at a controlled rate in the Lp and Ln inductors (see the current diagram to the right in Figure 4.1). Halfway through the cycle, the switches turn off but the inductors have reached a certain current flow (the peaks on the diagram) and now must continue pushing current in the same direction. The current continues to flow in the same direction through the inductors but comes through the diodes because the switches are open. Specifically, current flows from -Vcc through D1, through Lp, through Ln, through D2, and to +Vcc while ramping down. At quiescent, the Lp and Ln currents cancel so the net voltage developed at lout across the capacitor is zero. For positive voltage output, Swp is left on longer than Swn and for a negative output voltage, the opposite occurs. Note that for any output voltage, the "on" time of both switches will overlap, even if one is on longer than the other.



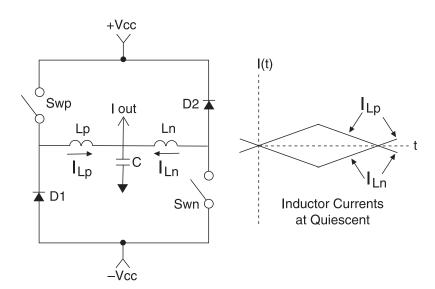


Figure 4.1 BCA Operation

Now back to the description of output circuit flow: after the FETs, the signal is then routed to the BCA filter inductors (Lp and Ln) and the current sense resistors (R383/R361 and R384/R362). The combining point (B1) is then sent to the Output Filter.

With no audio modulation, the PWM pulse train that is sent to the gates of each set of FETs is the same and the duty cycle is approximately 50%. This means that for no audio input, the positive FETs (Q106, Q107, Q110 and Q111) turn on and off at the same time as the negative FETs (Q108, Q109, Q112, Q113. As mentioned before, the Lp and Ln inductors control the rate of rise of the current during this time so that this does not act like a short during the couple of microseconds that they are on. The time that the FETs are on ramps current up in the inductors which stores energy in them. This energy is released through the diodes (D140-D143) when the FETs are turned off. The Vp and Vn nodes swing between –Vcc and +Vcc with a duty cycle of approximately 50%.

Operating the output stage in this way causes the current in the Lp and Ln inductors to completely cancel at the B1 node. This drastically reduces the filtering requirements necessary after the output stage.

If an audio signal is present at the input of the amplifier, the widths of the pulses at Vp and Vn change but the amplitude of the pulses stays at 2 \* Vcc. Positive audio signals will cause the positive side of the output stage to be on more than 50%

of the time while the negative side will be on less than 50% of the time. The total "on-time" will add to approximately 100%. Also, the on-time of the two polarities will overlap so that when the negative side is on, the positive side is also. For negative-going signals, the action is reversed (swap positive and negative). The result at the summing junction B1 is an amplified version of the input signal, with some noise superimposed on it. The B1 signal is then routed to the Output Filter.

#### 3.1.6 Output Filter

The output filter is made up of three individual filters: a 250 kHz filter (L101/C128), a 500 kHz filter (L102/C131/C397), and a final 250 kHz filter (L104/C136-C139). The signal passes through these three filters to eliminate both residual 500 kHz and 250 kHz signals. The audio signal is then connected to the output PWA through buss bars.

# **3.2 Protection and Control Circuitry** 3.2.1 Current Monitor

Audio output current levels are monitored by the use of transformer T100. A small primary winding is in series with the output current and the secondary develops a voltage across R140 proportional to the output current of the amplifier. This output current information is used for two purposes:

- 1. Negative feedback
- 2. Current feedback information for the modulators.



#### 3.2.2 Current Limiter

To prevent excessive output current, the CE4000 amplifier incorporates a current limiting protection circuit. The current sense resistors (R383/R361 and R384/R362) in series with the Lp and Ln inductors sense the output current. The voltage dropped across these two resistors is sent back to U108-A and U108-B. D109, R163, and R165 set the voltage reference for U108-B. D109, R164, and R167 set the voltage reference for U108-A. Due to the circuit configuration, only the reference at U108-5 will show a voltage and it is set to 0.48VDC referenced to node B1 with no signal input.

The outputs of the comparators are normally open but since these two outputs are connected together and to U107-2 and through R161 to B1+15V, the level sits at one diode drop above B1 or +0.6VDC. Pin 3 of U107 is tied to B1. The output of U107 is inverting so normally the output is low. U106-A inverts the output and is used to turn the modulators on and off. Overall, if the outputs of U108 go low, the output of U106-A goes low to turn off the modulatorsU101 and U103.

The second input to U106-A is from the protection circuitry and is used to turn off the modulators (U101 and U103) for various reasons (see Section 4.2.4).

#### 3.2.3 Display Circuitry

Just after the input signal is converted from balanced to unbalanced, it is routed to the signal detection circuit. With a signal approximately 45-dB below that required for full output, the Signal LED will illuminate. Note that this LED will indicate whether signal is present at the amplifier but not whether it is being output from the amplifier.

The compressor circuit is initiated by either the Input-Output Comparator (IOC) circuit or by the Thermal Limit Control (TLC) circuit. The IOC circuit, composed of Q100, Q101, R121-R126, and D105-D106, uses the error signal from the error amplifier (U100-C). If the error amplifier is unable to correct for non-linear behavior in the amplifier, the error amplifier (U100-C) will generate a voltage spike of approximately  $\pm$ 7V. The IOC circuit clamps that voltage to the  $\pm$ 7V limit (normally it would go to the op-amp's rails) and also generates a voltage greater than the window of  $\pm$ 0.3V that is detected by U117-C and U117-B. Depending on the polarity, U117-C or U117-B will go low during an IOC event. If this happens, U125-D goes high and Q103 turns on. Q103 turns on the compressor opto (located on the BFG PWA) which compresses the input signal and reduces the peak voltage the amplifier is required to produce. U125-D going high will activate the "Clip" LED, but only if the IOC condition occurs long enough to be audible. C312 and R413 set the conditions at which the "Clip" LED illuminates. Details of the generation of the TLC signal are discussed in the next section.

The "Fault" LED indicates any condition when there is a reason for the modulators to be turned off. When activated, the Fault LED will flash at approximately 3Hz.

The "Enable" LED is turned on by the presence of the +15V supply (see Section 4.3.3).

#### 3.2.4 Control Circuitry

After the low and high voltage rails are powered up and stable, the C354 timing capacitor, along with U114-C and associated circuitry holds the enable line (the net is called "Timing Cap 1") low for approximately four seconds. If Timing Cap 1 is low, U115-A stays low which causes Q115 to be high. This is input to U106-A that is inverted on the output and holds the modulators off.

Several detectors affect the status of Timing Cap 1. U114-A, along with scaling resistors R309 and R310 pull the line low if +Vcc rises beyond a safe limit. In a like fashion, U213-A, R315, and R316 look at the -Vcc rail. U213-B with scaling resistors R320 and R319 determine if the high voltage rails are high enough to ensure proper operation. If a large amount of high frequency energy is being produced by the output stage (such as during a shorted load condition), U114-B with scaling resistors R311 and R312 and time delay cap C176 will pull Timing Cap 1 low. If the airflow is blocked or severely clogged and even the fan on high speed can not keep the amplifier cool, U115-D will pull Timing Cap 1 low. If Timing Cap 1 goes low, it also turns on Q1 on the BFG PWA, which causes U5's transistor to not conduct. U5 is connected to pins 2 and 5 of the modular jack J3 that allows for remote sensing of the amplifier's operating condition.

Special Negative Temperature Coefficient (NTC) resistors are attached to three heatsinks and the power transformer to tell the amplifier if action needs to be taken to reduce the temperature. RT1 and RT2



are attached to the amplifier output heatsinks (one per channel). R711 is attached to the primary side power supply heatsink and R713 is attached to the power transformer. The NTC sensors feed the fan control circuit. Normally, the fan runs at very low speed and R325, R42, R508, R509, R333, R334, and R86 limit the voltage applied to the fan. For medium speed, Q105 conducts, shorting out R333, R334, and R86. For high speed, Q104 also conducts which shorts out the other dropping resistors.

"TLC" is a feature that allows the amplifier to decrease the amount of power it is dissipating if the power devices or transformer are climbing towards an unsafe temperature. This circuit uses the NTC-derived voltage to control a varying power limiter. This circuit only comes into play if forcing the fan into high speed is not enough to keep the unit at a safe temperature. The TEMP IN signal is delivered to U125-A's noninverting input while a reference voltage is sent to its inverting input. U125-A scales and inverts the temperature signal while U125-B inverts this new signal. U112-B and U112-C compare the temperature information to the input signal amplitude. Normally, the output of U112-B&C is open collector but if limiting is required, this output is forced low and is sent to the compressor circuit as TLC 1.

The NTC voltages controlled by R339, R74, R712, and R714 respectively are diode-OR'd to U115-D. U115-D compares this voltage to a reference formed by R337 and R336 to determine if, as a last line of defense, Timing Cap 1 should be pulled low until the amplifier cools off.

In the rare event that DC is produced by the output stage, U113-C and U113-D form a window detector whose output goes low in that condition. This signal is latched on permanently by U113-A and U113-B and R304. This signal, which is high for a fault condition, is sent to U115-4 and will also turn off the modulators. To reset this latch, the power must by cycled to the amplifier.

#### **3.3 Power Supply Operation** 3.3.1 Power Entry and Filtering

AC power enters the amplifier through a power cord equipped with an IEC (unplugable) connector. It then passes through the EMI filter to remove switching noise caused by the amplifier and power supply. The parts on the primary side of the power distribution circuitry (including those on the EMI PWA) have all met stringent regulatory safety requirements and, if they fail, must be replaced by the correct part as called out in the PWA documentation.

#### 3.3.2 Fuse

In the rare event that a power supply failure draws excessive current from the mains and the power supply itself cannot reduce the current by shutting down the controllers, a fuse will blow on the EMI filter PWA. This fuse is accessible through a slot in the filter shield and is the same value regardless of the mains voltage that the amplifier is used with. Always replace the fuse with the same type and rating!

#### 3.3.3 Low-Voltage Supplies (Flyback)

Several things happen in parallel when the power switch is first turned on. The line current flows through PTCs R1 and R2 to prevent high inrush currents. The current is then rectified by D1 and flows through L1 and D2 to charge energy reserve caps C1 and C6. As soon as sufficient voltage is detected at the "Vbulk" node, the low voltage "flyback PWA" supply starts running. It is a buck supply that self-starts by free running (not synchronized to any clock) at about 80 kHz. This supply produces all of the required low voltage supplies except the Vp gate drive power mentioned above in the "Output" section. All of the secondary supplies are isolated from the primary by a transformer. After the low voltage supplies are up and running, the clock circuitry runs and generates a synchronizing signal for the flyback PWA that overrides the free-running circuit and forces the flyback to run at 125 kHz.

#### 3.3.4 Turn-On Control Circuitry

As mentioned in the previous section, while C1 and C6 are being charged through the PTCs, Q11 is held off and C47 charges up in approximately two seconds. U10-A's output then goes high which turns Q8 on forcing U13-B's output high which turns on the relay via Q9 and shorts out the PTCs and allows full line voltage to get to C1 and C6. As Q8 is turning on, Q3 turns off causesing C24 to discharge through R9 and, after about 15mS, forces U13-A's output low which turns Q14 and Q15 off. When Q14 and Q15 are on, they ground the soft-start pins of controllers U2 and U4 and this prevents them from running.

Three conditions can prevent the node at U10-A's output from going high. U24-A will hold this node low through D45 if there is a fault detected by the audio output stage or if the power supply detects an



overcurrent condition. The circuit of U24-A and U24-B will latch if either of these conditions is detected. U11-B will hold the node low if U11-A detects a low line voltage condition (about 60VAC) such as a brownout.

#### 3.3.5 PFC Boost Stage

After the relay closes and the soft-start pins are opened, the PFC controller, U2, starts to run. The GDRV pin (20) on U2 controls gate drivers U9 and U26 which drive the gates of Q1 and Q2 in a boost mode configuration. Several inputs to the controller affect its operation. The controller uses feedback from the "V BULK" node, compensated by R24, C314, and C14 and fed into U2-13 and U2-14 to maintain approximately 400VDC at this node. The feedback loop is quite slow, in the "10's of Hz" range, unlike that of a power amplifier, and so depends on the large energy reserve capacitors to supply impulsive power but overall, the voltage is regulated to 400VDC regardless of the line voltage or the load current. Note that 400VDC is higher than the highest expected peak line voltage so the PFC stage is always boosting to a known voltage. The PFC controller also looks at the incoming "RECT AC+" voltage and makes sure that the current the boost stage draws is in phase and shaped like the voltage. This makes the amplifier look like a resistor to the AC mains, and allows it to pass certain regulatory requirements. Pin U2-3 looks at the incoming line voltage to make sure it is within safe limits and if not, shuts down the FETs. R36 sets the current limit of the PFC stage to approximately 47Amps peak. Using all of these inputs, U2 causes the boost stage to take small amounts of current from the line 62,500 times each second.

#### 3.3.6 Bridge Isolation Stage

The 400VDC is then "bucked" down to the ground referenced rails (+Vcc and -Vcc) needed by the audio amplifier. Controller U4, through gate drivers U17, U31, U29, and U32 and transformers T2 and T3. turns Q4 and Q7 on at the same time, then turns Q4 and Q7 off and Q5 and Q6 on at the same time, causing T1 to convert voltage and current to its secondary. This process is repeated so that any two of the four FETs are on about 85% of the time. U4 runs at 125kHz (the 250kHz sync signal is divided down within the IC). Diodes D3-D6 and capacitors C7-C8 rectify the secondary AC to DC. Transformer T1 provides isolation between primary (mains) and secondary (ground referenced) power for safety. Controller U4 is called a "Phase-Shifted Bridge Controller" because as its soft-start pin is released and U4-19 climbs in voltage (U4-19 is a current source), the controller slowly allows the power transfer to ramp up by phase-shifting the power FETs properly. This stage is referred to as a "buck" stage (as mentioned previously), an "isolation" stage for its transformer action, and a "bridge" stage since the four FETs form a full bridge topology.

The AC primary current travelling through the transformer is also passed through a small current transformer in order to sense the current. This AC signal is passed through diodes D9-D10 and D12-D13 and cap C26 to convert it to DC. If the bridge current is high and remains high for several seconds (such as when the amplifier is producing high voltage, high current sine waves), the average power limiter will tell the audio amplifier to invoke the compressor and slowly reduce the power output. The DC signal from C26 is also compared to a reference in the Over Current Detect Circuit and will latch both U2 and U4 off if currents above 50-55 Amps are detected in the bridge primary. The power to the amplifier must be cycled to reset this latch.



### 4 Maintenance

#### 4.1 Where to Begin

Effective repair involves three basic steps:

- 1) Determine the symptom(s) of the problem
- 2) Identify the cause(s) of the symptom(s)
- 3) Repair the unit to eliminate the cause(s).

To determine the symptoms, you will want to get as much information from the user as possible. Get as much information as you can about the system and how the amplifier is used. There is always the possibility that the problem will show up only if used in a specific way.

Once you have all the information about the symptom(s), it is time to inspect the amplifier. A careful visual inspection is valuable for most problems, which you may encounter. To inspect the inside of the amplifier remove the cover as described in Section 4.3.1.

Begin the inspection by looking for anything, which appears abnormal, like loose connectors, broken wires and burnt or visibly damaged components. Inspect the printed circuit assemblies for broken traces and loose connections. Be thorough. The time you spend visually inspecting the amp is time well spent.

#### 4.2 Surface Mount Technology

CE Series amplifiers use surface mount technology in their design. There are several advantages to using surface mount technology (SMT), including; (1) surface mount devices (SMDs) are much smaller, and are mounted to the surface of the board, so more components can be placed on the board. (2) Components can be attached to both sides of the board, allowing the board size to be reduced. (3) SMT boards are lighter and provide better electrical performance and signal speed.



Of course, there are also things to watch out for with SMT. (1) The placement of the components on the board, not through a hole, makes the components and the solder joint more susceptible to damage. (2) Rework of SMDs can often require specialized tools, equipment, or training. (3) SMDs are very small and can be difficult to handle, see, and identify.

Remember that on the CE-Series amplifiers, the SMDs on the bottom side of the main module are GLUED. Take care not to damage components while trying to remove them from the surface of the module.

#### 4.3 Disassembly for Inspection & Service

The extent of disassembly required will depend upon the extent of inspection and service required.

Note: To avoid the risk of electric shock, turn off and unplug the amplifier from the ac power outlet before disassembly or reassembly is attempted. 4.3.1 Top Cover Removal

To remove the cover of the amplifier you will need a #15 torx bit (TX15). After the cover is removed, and before any internal cables are disconnected, **discharge the supplies**. See Section 4.3.2.

1. Turn the amplifier on its bottom on your workbench. The only access to the inside of the amplifier is the top cover.

2. Using the TX15 bit, Loosen the 8 screws around the perimeter of the cover.

3. The cover lifts up and back after the screws are removed.

#### 4.3.2 Power Supply Discharge

Before any connectors and PWAs (<u>Printed Wire</u> <u>A</u>ssemblies, or circuit boards) are removed, the Power Supplies need to be discharged. Follow these simple steps.

1. Make sure the amplifier is unplugged from the AC power source.

2. Locate L6 and L9 on the Main PWA (see Figure 4.3).



#### WARNING

Before unplugging or plugging in any connectors or wires in the amplifier, discharge the power supplies. See section 4.3.2 for instructions. Failure to do so will result in circuit failure.



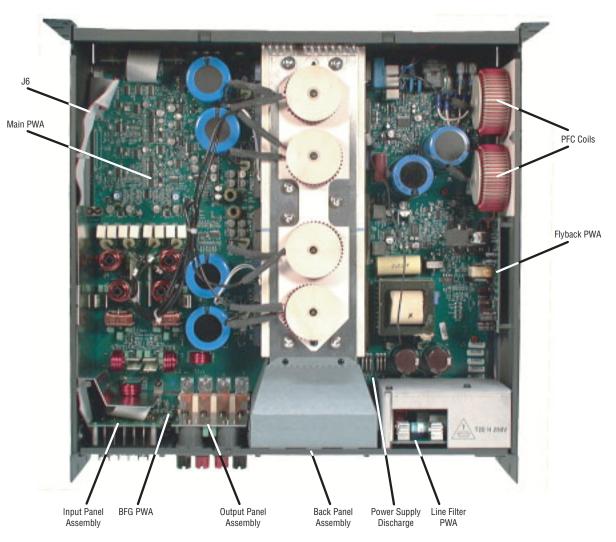


Figure 4.1 CE 4000 Top View A

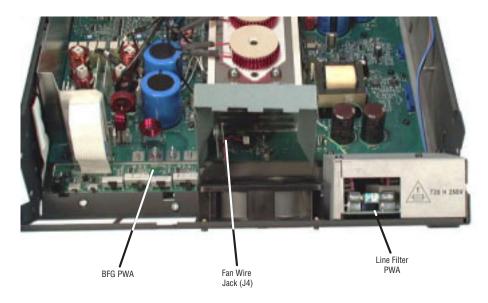


Figure 4.2 CE 4000 Top View B



3. Connect a 600 Ohm 10 watt resistor from L6 to L9. Be careful not to touch the leads with your fingers, as  $\pm 100V$  could be present at this point.

4. Wait 30 seconds before removing the resistor.

Caution: the ten-watt resistor will become hot as the power supplies discharge.



Figure 4.3 Power Supply Discharge

# 4.3.3 Flyback Supply PWA Removal 1. Follow the instructions in Section 4.3.2. Supply discharge is necessary to avoid circuit damage.

2. Remove the two screws and two plastic washers securing the Flyback PWA to the Chassis (see Figure 4.4).

3. Release the retention latches on the connectors located at the bottom of the Flyback PWA.

4. Lift the Flyback PWA straight up and out of the chassis.

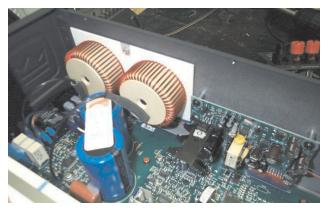


Figure 4.4 Flyback PWA and PFC Coils

#### 4.3.4 Input Module (SST) Removal

1. Remove the four Phillips-head screws that secure the SST to the chassis.

2. Gently slide the SST out to expose the ribbon cable connector.

3. Release the retention latch and disconnect the ribbon cable from the SST Module and finish by removing the SST from the chassis.

#### 4.3.5 Output Panel Removal

1. Remove the four nuts on the Main PWA that hold the output buss bars to the Main PWA (see Figure 4.5).

2. Remove the four T15 screws that secure the output panel to the back panel.

3. Slide the output panel up and out of the back of the amplifier.



Figure 4.5 Output Bus Bars

#### 4.3.6 Back Panel Assembly Removal

The back panel assembly is removed to access the BFG, Main and Filter PWAs.

# 1. Follow the instructions in Section 4.3.2. Supply discharge is necessary to avoid circuit damage.

- 2. Remove the SST module (Section 4.3.4).
- 3. Remove the output panel (Section 4.3.5).

4. Disconnect the Brown and Blue primary wires from the Main PWA. Slide both wires out from underneath Flyback PWA.

5. Remove the 8 Flathead T15 screws on the side and bottom of chassis that secure the back panel to the chassis. Slide the back panel partially out and away from the amplifier, then unplug the fan wires from the Main PWA at J4 (see Figure 4.3).



6. Disconnect the safety ground wire attaching the back panel to the chassis.

7. Pull the back panel assembly the rest of the way out of the back of the amplifier.

#### 4.3.7 Line Filter PWA Removal

1. Remove the back panel assembly (see Section 4.3.6).

2. Remove the four T15 screws that secure the shield.

3. Disconnect the faston connectors before removing the PWA.

4. Remove the four standoffs that hold the Line Filter PWA to the back panel assembly.

5. Remove the Line Filter PWA.

#### 4.3.8 BFG PWA Removal

1. Remove the back panel assembly (see Section 4.3.6).

2. Remove the T15 flathead screw that holds the metal cable shield to the chassis.

3. Remove the two T15 screws that hold the shield to the Main PWA.

4. Remove the metal shield out of the chassis.

5. Disconnect the ribbon cable from the Main PWA at J6. (see Figure 4.2)

6. Remove the tie-wraps securing the ribbon cables.

7. Remove the two T15 screws securing the BFG PWA to the chassis.

8. Lift the BFG PWA straight up from the chassis.

#### 4.3.9 Main PWA Removal

1. Remove the FlyBack PWA (see Section 4.3.3).

2. Remove the back panel assembly (see Section 4.3.6).

3. Disconnect the PFC coils and remove them from the side panel of the chassis.

4. Remove the T15 flathead screw that holds the metal cable shield to the chassis.

5. Remove the two T15 screws that hold the shield to the Main PWA.

6. Remove the metal shield out of the chassis.

7. Remove the knobs from the front panel.

8. Remove the nuts that secure the level controls to the front panel.

9. Slide the level controls into the chassis.

10. Remove the air shroud from the Main PWA heatsink.

11. Unplug the power switch wires at J26, J27, J28 and J29 on the Main PWA.

12. Remove the seven screws that secure the heatsink assembly and coil assembly to the chassis.

13. Remove the seven orange- or blue-painted screws that secure the Main PWA assembly to the chassis.

14. Holding the heatsinks, lift and slide the Main PWA straight up and backwards out of the chassis.

#### 4.4 Troubleshooting

As mentioned earlier, the three steps to effective repair are: Determine the symptoms; identify the cause of the symptoms; repair the unit to eliminate the cause.

Please troubleshoot based on the order listed below.

#### 4.4.1 Troubleshooting Flyback Power Supply.

1. Nulls off the error amplifier output of channel 1 by placing a jumper between TP100 and TP104 (Jumper 1 in Figure 4.6).

2. Nulls off the error amplifier output of channel 2 by placing a jumper between TP200 and TP204 (Jumper 2 in Figure 4.6).

3. Defeat Undervoltage protection circuitry on BCA side by pulling TP248 to +15V (TP254) (Jumper 3

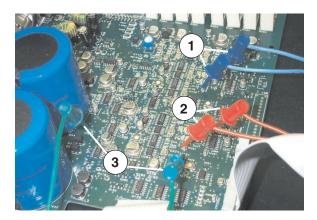


Figure 4.6 Shorting Jumpers

in Figure 4.6).

4. Defeat Brown-out effect protection circuitry by pulling TP249 to +15V (TP-6) with a jumper, as shown

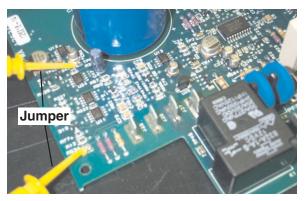
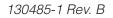


Figure 4.7 Brown-Out Jumper



5. Connect half wave rectified AC power flyback and power it up **through an isolation transformer** as shown in Figure 4.



Warning: NOT using an isolation transformer in Step 5 can result in test equipment damage.

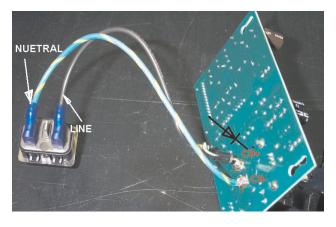


Figure 4.8 Half-Wave Rectified Flyback

6. Using a multimeter check DC supplies on power supply side. Confirm TP6, TP7 and TP8 = +15V, TP46 = +7.5V, TP252 = 19.0V, U2 pin 11 = 5.1V, and TP256 and U14 pin 1 = 5.0V. All measurements should be made with respect to SMPS reference (TP2).

7. Using a multimeter check DC supplies on audio side. Confirm TP254 is +15V, TP255 is -15V and TP257 is 5.0V. All measurements should be made with respect to AGND (TP-105).

# 4.4.2 Troubleshooting Trianglewave Generator and BCA Output Stage.

1. Using an oscilloscope check audio side triangle waveforms at TP102 with respect to TP105 (see Figure 4.9).

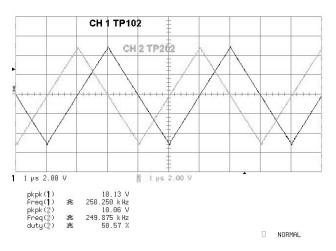


Figure 4.9 Output Signal of Triangle-Wave Generator

2. Using an oscilloscope check audio side triangle waveforms at TP202 with respect to TP205 (see Figure 4.9).

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3. Using an oscilloscope check BCA output stage gate switching (see Figure 4.10). Probe at each gate drive resistor.

R360 for Q107 and Q110 (Figure 4.10) while R357 for Q108 and Q111 (Figure 4.11) of Vp Channel 1.

R365 for Q108 and Q112 (Figure 4.10) while R368 for Q109 and Q113 (Figure 4.11) of Vn Channel 1.

R460 for Q207 and Q210 (Figure 4.10) while R457 for Q208 and Q211 (Figure 4.11) of Vp Channel 2.

R465 for Q208 and Q212 (Figure 4.10) while R468 for Q209 and Q213 (Figure 4.11) of Vn Channel 2.

A total of four measurements for each channel, 2 for each Vp and Vn sides.

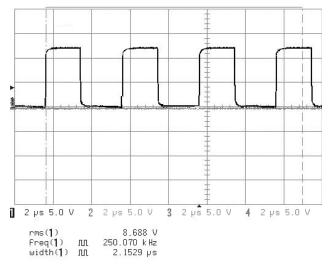


Figure 4.10 Gate Switching, View A

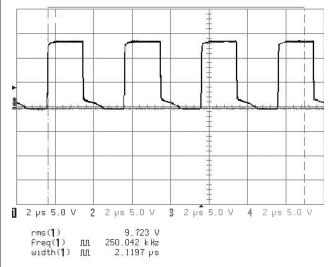


Figure 4.11 Gate Switching, View B



# 4.4.3 Troubleshooting Power Supply, PFC PWA and Full Bridge DC to DC Converter

1. Using an oscilloscope check power supply clocks at TP-253 and TP-12, as shown in Figure 4.12. All measurements are with respect to SMPS reference.

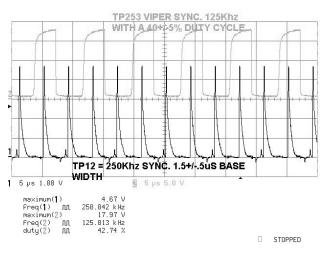


Figure 4.12 Power Supply Clock

2. Place jumper between J28 and J29 to simulate front panel switch on.

3. Remove/ bypass boost inductor L1 and using an external power supply apply 4VDC at J23.

4. Using an oscilloscope check PFC gate switching at TP-5 with respect to TP-2, as shown in Figure 4.13.

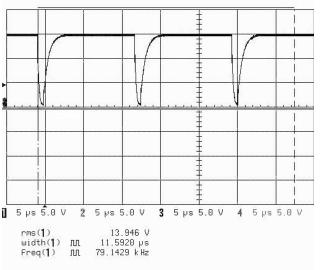


Figure 4.13 PFC Gate Switching at 4VDC

5. Using an external power supply apply 60VDC to J23 and verify that the frequency changes, as shown in Figure 4.14.

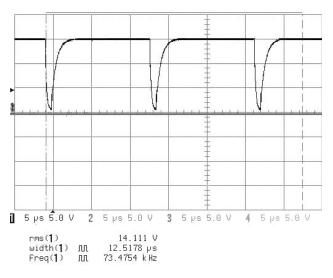


Figure 4.14 PFC Gate Switching at 60VDC

6. Using an oscilloscope check gate switching of the Full Bridge DC to DC Converter, as shown in Figure 4.15. Verify the phase shift at startup. Probe at TP-27, TP-29, TP-30 and TP-31. All measurements are with respect to SMPS reference.

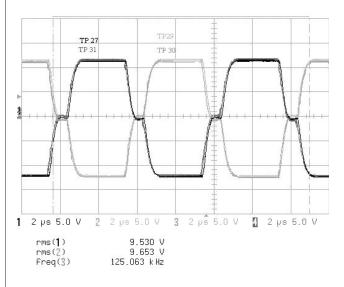


Figure 4.15 Full-Bridge DC to DC Converter Gate Switching

#### 4.4.4 Identifying Symptoms

Why was the amplifier brought in for repair? Can you get it to malfunction again? Some problems can be intermittent and difficult to find.

Once you have identified and verified the symptoms, you can look for helpful information in Section 4.4.5 as to where the cause of the problem is located.



If you don't observe anything wrong with the amplifier, tactfully inquire how the owner used it and try to determine if it was misused or some other component in their system could have been at fault. Remember that the protection circuits in this amplifier will protect loudspeakers from problems caused upstream from the amplifier (DC protect).

If you lack sufficient information about the problem, and there aren't any obvious problems with the amplifier, skip to Section 4.6, the Electrical Checkout Procedures.

#### 4.4.5 Identifying and Repairing the Cause

The first step in identifying the cause of the problem is always a visual inspection. Once the top cover is removed, and the supplies are discharged, look for loose connectors, broken wires, loose hardware, burnt components, or bad solder joints on the PC boards. Check both sides of the board.

Once the visual inspection is complete you may power up the unit. The best way to positively locate which PWA is at fault is to have a working PWA of each type on hand and plug them into the amplifier one at a time to see when the problem goes away.

The following Symptoms and Causes may help you determine which corrective action to take. We realize that this list is limited. Please read through the Theory chapter in this manual to better understand the function of each PWA. This will help you come to your own conclusion as to the location of the problem.

### Amp does not appear to power up. No Enable LED.

First, check the power supply fuse (located on the Line Filter PWA). Check for faulty switch or faulty inductor connection in the EMI and Filter module. Also, make sure the AC line voltage is correct for the amplifier you are working on. Severely low AC line voltage could cause the amp to not power up. If both check out, then the amplifier is in a fault mode. Viper could be dead. The most likely trouble area is the Flyback PWA.

### The Fault LEDs on one or both channels are flashing.

1. The Fault LEDs normally flash during turn-on delay. Wait for six seconds to see if the LED stops flashing.

2. One or more of the power supplies are out of tolerance or missing. Replace or troubleshoot the Flyback PWA. If this does not correct the problem, check for the 400 V Vboost by measuring from TP251 to TP50. If it is low, then troubleshoot the PFC boost stage. If 400 V is o.k., check the ±Vccs at L6 and L9. They should measure approximately 105 VDC to

ground. If Vcc is low or missing, troubleshoot the Full Bridge DC to DC converter stage.

3. ±15 V supply is too low. Check the Flyback PWA.

4. DC is present on the Channel 1 or Channel 2 output terminals, usually caused by a bad MOSFET or diode in the amplifier's output stage.

5. The channel one heatsink is too hot. Verify the heatsink temperature is less than 80°C. The output heatsinks should be at earth ground. The SMPS reference heatsink is above ground, so **do not touch amplifier ground and the SMPS reference heatsink at the same time.** 

6. The overvoltage sensor has been tripped. Measure the  $\pm$ Vccs at L6 and L9. They should read less than 120 VDC referenced to ground.

7. Transformer T1 has exceeded its thermal limit. Replace T1. Replace R713.

# Signal LED is off and the Clip LED is on for either channel.

1. Troubleshoot the appropriate channel. A Clip LED on generally means an output stage failure.

### Signal LED is on and the Clip LED is on for either channel.

1. The amplifier channel is clipping. Reduce the input signal level

2. A short is present at the output. Check the output wiring.

#### Output sounds distorted. Clip LED is off.

1. The input stage is being overdriven. Reduce the input signal level.

2. There is a problem in the Input PWA. Replace or troubleshoot the Input PWA.

#### Amplifier does not meet Output Power specification.

1. The amplifier has reached thermal limits. Check for proper fan operation.

2. PFC boost stage is not functioning properly. Check for 400 VDC at TP-251 with respect to TP-50. Troubleshoot PFC boost stage if measurement is nonconforming.

### Amplifier does not meet Frequency Response specification.

1. Make sure the output voltage does not exceed 45Vrms.

2. Check back panel filter switch positions.

3. Check BFG PWA highpass and lowpass circuitry.

4. Possible problem in the 32-kHz 7th-order Gaussian filter. Readjust R178 and R278 for channel 1 and 2



filter. Readjust R178 and R278 for channel 1 and 2 respectively to get the frequency response in spec. Troubleshoot and repair filter as necessary.

#### Amplifier does not meet Voltage Gain specification.

1. The gain of the amplifier is determined by the BFG PWA. Check the optocoupler for proper operation or replace the BFG PWA.

2. Check residual resistance of gain level potentiometers.

# Amplifier does not meet DC Output Offset specification.

1. Possible problem on the Main PWA, and is likely

a faulty U100/200 or a faulty MOSFET or diode in the output stage. Troubleshoot and repair as necessary.

2. Input PWA might be passing input signal DC components. Check for short capacitors in the Input PWA.

#### 4.5 Required Test Equipment

Due to the complex circuitry utilized the CE 4000 amplifier, special calibration procedures and the correct test equipment are necessary to insure original factory specifications are achieved.

Figure 4.16 is list of test equipment needed to successfully service the amplifier. Recommended models are those used by Crown.

Device	Requirements	Recommended Model
Oscilloscope	500 MHz or greater	LeCroy 9354A
Distortion Analyzer	THD and IM measurements	Audio Precision ATS-1
DC Power Suppies	105 VDC with I-Limiting and 12-15 VDC with I-Limiting	Leader 760-3D (Qty. 2) Leader 18-3D
Function Generator		Hewlett-Packard HP 33120A
AC/DC volt meter	dB reading capability	Hewlett-Packard HP 34401A
Dummy Loads	8 ohm, 600 watt, 4 ohm, 1,200 watt, and 2 ohm, 1,800 watt	
Isolation Transformer	1:1 Primary to Secondary Turn Ratio	

# Alternate oscilloscope choices: Tektronix TDS360 and HP HP54610B. The latter is a 500 MHz scope, which is needed to test newer BCA power supplies.

Figure 4.16 Required Test Equipment



#### **4.6 Electrical Checkout Procedures**

The test procedures in this section are used to verify the operation of the amplifier. You may, however, find these tests helpful in troubleshooting a problem if the problem is not easily identified.

All tests assume that AC power is from 100-240 VAC  $\pm 10\%$ .

During each test, it is assumed that the following conditions are set on the amplifier unless otherwise noted:

- Level controls fully clockwise.
- Bridge Output switch off.
- Input Sensitivity of both channels set at 26 dB.
- Filter settings in the back panel are set to FLAT.

#### 4.6.1 Quiescent AC Power Draw

Spec: 130 watts maximum quiescent.

**Procedure:** With no load connected to the amplifier, turn on the amplifier. Measure AC power draw. It should be less than 130 watts.

#### 4.6.2 Gain Switches

**Spec:** 0.775V, 1.4 V, 26 dB

**Procedure:** No Load. With the level controls at full gain and the input sensitivity switches set to 1.4 V, inject a 1 kHz, 0.775 Vrms, into each channel. At the output of each channel measure 38.3 Vrms,  $\pm$ 3.8 Vrms. Switch the Input Sensitivity switches to 26 dB. At the output of each channel measure 15.5 Vrms,  $\pm$ 0.5 Vrms. Switch the Input Sensitivity switches to 0.775 V, At the output of each channel measure 69.3 Vrms,  $\pm$ 6.9 Vrms.

#### 4.6.3 Bridge Mono Operation

**Spec:** Same voltage out both channels, channel 2 out of phase.

**Procedure:** No load. Switch the Bridge Mono switch on and inject a 1 kHz sine wave into channel 1 only. Monitor both outputs of the amplifier. They should be the same voltage and 180 degrees out of phase with each other. Remove the signal and turn the Bridge Mono switch off.

#### 4.6.4 Frequency Response

**Spec:** ±0.25 dB from 20 Hz to 20 kHz.

**Procedure:** Load the channel under test to 4 ohms. Inject a 0.1Vrms, 1kHz sine wave into the input. Measure the output voltage. It should be 2.0 Vrms. This is now your 1 kHz reference voltage. Switch the frequency to 20 Hz and verify that the input voltage is still 0.1 Vrms. Measure the output voltage. It should be the same as the 1 kHz reference voltage  $\pm 0.25$ dB. Switch the frequency to 20 kHz and verify that the input voltage is still 0.1 Vrms. Measure the output voltage and compare it to the 1 kHz reference voltage. Tolerance is  $\pm 0.25$  dB. Remove the load and signal. Note: Many oscillators need a frequency check at 20 kHz.

#### 4.6.5 Short Circuit Test

Spec: Amplifier will protect itself

**Procedure:** Inject a 1kHz, 1Vrms sine wave into the input of channel 1. Short the output of channel 1 to ground for 10 seconds. The amplifier should cycle into fault mode. Every four to six seconds the Clip LEDs will flash, indicating that it is checking to see if the short is still there. Remove the short and perform the test on channel 2.

#### 4.6.6 Output Power

Spec: Each channel

600 watts into 8 ohms

1,200 watts into 4 ohms

1,800 watts into 2 ohms (at  $\geq$ 200V line voltage).

Spec: less than 0.5% THD.

**Procedure 8 ohm:** Load the channel under test to 8 ohms. Inject a 1kHz sine wave and bring the level up until the output reaches 0.5% THD. Measure at least 69.3 Vrms at the output.

**Procedure 4 ohm:** Load the channel under test to 4 ohms. Inject a 1kHz sine wave and bring the level up until the output reaches 0.5% THD. Measure at least 69.3 Vrms at the output.

**Procedure 2 ohm:** When testing 2-ohm power at line voltages under 200 VAC, test one channel at a time. Load the channel under test to 2 ohms. Inject a 1kHz sine wave and bring the level up until the output reaches 0.5% THD. Measure at least 60.0 Vrms at the output.

#### 4.6.7 Intermodulation Distortion

Spec: Less than 0.5% from 0 dB to -30 dB.

**Procedure:** Load the channel under test to 8 ohms. Inject a SMPTE standard IM signal (60 Hz and 7 kHz mixed at 4:1). Adjust the output voltage for a peak equivalent voltage of 69.3 volts. This is your 0-dB reference. Measure less than 0.5% IMD from 0 dB to -30 dB in 5- dB steps.

#### 4.6.8 Signal to Noise Ratio

**Spec:** Greater than 100 dB below rated 8 ohm power, A weighted.

**Procedure:** Load the channel under test to 8 ohms. Terminate the input with 600 ohms. Verify that the gain switch is set at 26 dB and level control is at full volume. Measure less than 550  $\mu$ Vrms at the output using an A-weighted filter.



#### 4.6.9 Crosstalk at 20 kHz

Spec: Greater that 50 dB.

**Procedure:** Load each channel to 8 ohms. Verify that both gain switches are set at 26 dB and both level controls are at full volume. Inject a 2.0 Vrms, 20 kHz, sine wave into channel 1 and terminate channel 2 with 600 ohms. Measure less than 126.5 mV at the output of channel 2. Now remove the signal from channel one and inject it into channel 2. Terminate channel 1 with 600 ohms. Measure less than 126.5 mV at the output of channel 1.

#### 4.6.10 Post Test Settings

After completion of testing, if all tests are satisfactory, the amplifier controls should be returned to the positions required by the customer. If the conditions are unknown or unspecified, the factory settings are as follows:

- Gain switches set to 1.4 V
- Bridge Mono switch turned off
- Level controls set fully counterclockwise
- Power switch turned off
- All filter switches set to the flat position

#### 4.7 Calibrations

#### 4.7.1 Gaussian Filter Calibration

**Procedure 1:** Obtain a multimeter with decibel measurement capabilities. Set the multimeter to dB measurement mode. Insert a 1 kHz signal into the input and measure at pin 14 of U111D. Reset the meter to 0 dB using the 1 kHz signal as a reference signal. Increase the signal generator frequency to 20 kHz, leaving the output level unchanged. While measuring pin 14 of U111D adjust R178 for a reduction of level by 2.6 dB (readout should be –2.6 dB).

**Procedure 2:** Obtain a multimeter with decibel measurement capabilities. Set the meter to dB measurement mode. Insert a 1 kHz signal into the input and measure at the speaker output (no load). Reset the meter to 0 dB using the 1 kHz signal as a reference signal. Increase the signal generator frequency to 12.5 kHz, leaving the output level unchanged. Adjust R178 for a meter reading of 0 db. This second test method is an alternative to the first and should give the desired results: a flat frequency response throughout the audio bandwidth.

# 4.7.2 Overlap Correction and Adjustment Conditions:

- Amplifier output assembly MUST be room temperature (72 degrees F/21 degrees C)
- No input signal
- No load

**Procedure:** Monitor TP37 found on the Main PWA. Center oscilloscope to view lower right portion of waveform (see Figure 4.17). Adjust R170 for the sharpest-possible squarewave rising edges, with a transition curve less than 10.0V. Figure 4.18 shows a correct transition curve, Figure 4.19 shows "underlap" (under adjustment), where the transition curve exceeds 10.0V. Figure 4.20 shows "overlap" (over adjustment), where the transition curve is not "smooth."

Repeat for channel 2, monitoring TP244 and adjusting R270.

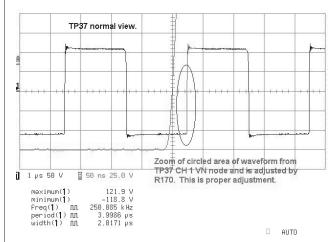


Figure 4.17 Overlap Adjustment

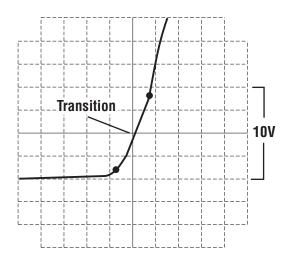


Figure 4.18 Correct Overlap Adjustment (Less than 10V)



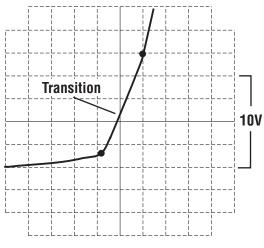


Figure 4.19 Underlap (Greater than 10V)

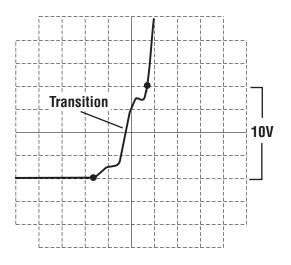


Figure 4.20 Excessive Overlap (No Smooth Transition)

#### 4.7.3 Current Sensing Calibration

Drive and test one channel at a time.

1. Connect output to 8 Ohms load and apply 1kHz Sinewave input signal.

2. Adjust output gain level until output voltage measures 40Vrms on one channel.

3. Adjust R160 while observing TP-10 for channel 1 in order to achieve 1.0Vrms +/-10mVrms (see Figure 4.21).

4. Repeat the adjustment on R260 while observing TP-245 for channel 2.

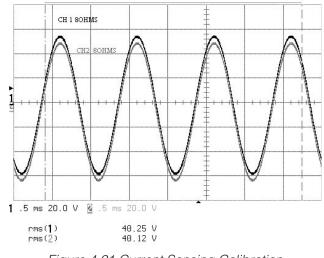


Figure 4.21 Current Sensing Calibration

#### 4.7.4 Output Filter Calibration

Output Filter Calibration is **NOT** field adjustable and should not need adjustment. If you suspect the slugs (L101, L102 for Channel 1 while L201 and L201 for Channel 2) have been moved, the amplifier should be sent to CROWN Factory Service for proper adjustment.





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### 5 Parts

#### **5.1 General Information**

Replacement parts for this Crown amplifier can be ordered from the Crown Parts Department.

#### PART PRICES AND AVAILABILITY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

#### 5.2 Ordering and Receiving Parts

When ordering parts, be sure to give the product model, and include a description and part number from the parts listing. Price quotes are available on request.

#### 5.2.1 Terms

Normal terms are prepaid. Net-30 Days applies to only those having pre-established accounts with Crown. The Crown Parts Department does accept Visa or Master Card. If prepaying, the order must be packed and weighed before a total bill can be established, after which an amount due will be issued and shipment made upon receipt of payment. New parts returned for credit are subject to a restocking fee, and authorization from the Crown Parts Department must be obtained before returning parts for credit.

#### 5.2.2 Shipment

Shipment will normally be made via UPS, or best other method unless you specify otherwise. Shipments are made to and from Elkhart, Indiana USA, only. Established accounts with Crown will receive shipment freight prepaid and will be billed. All others will receive shipment on a C.O.D. or prepayment (check or credit card) basis.

#### **5.3 Mechanical Parts**

This section includes a mechanical part list for this product. All serviceable parts and assemblies will have a Crown Part Number (CPN) listed in this chapter. The parts listed are current as of the date printed. Crown reserves the right to modify and improve its products for the benefit of its customers.

#### **Crown Customer Service**

Technical Support Group Factory Service Parts Department

Mailing Address: P.O. Box 1000, Elkhart IN 46515 Shipping Address: Plant 2 S. W. 1718 W. Mishawaka Rd., Elkhart IN 46517 Phone: (219) 294-8200 Toll Free: (800) 342-6939 Fax: (219) 294-8301 http://www.crownaudio.com



#### 5.3.1 CE4000 Amplifier Assembly

Refer to Figure 5.1 for Exploded View

Item	Quantity	Description	Part # (CPN)
28	1	ASM, CE4000 BACK PANEL	See section 5.2.2
27	1	ASM, CE4000 POWER SWITCH	See section 5.2.8
26	1	COVER, CE4000 TOP PC	126223-4
25	3	4" CABLE TIE	C 1811-1-6
24	1	8-32 HEX NUT W/BELLE	A11056-2
23	2	TIE, 5.625" CABLE	127330-1
22	1	SUB-FRONT, CE4000 FP PC	130526-1
21	7	CAP, CE400 PEM STANDOFF	128119-2
20	1	PWA, CE4000 MAIN	See section 5.4
19	1	INDUCTOR,PFC	127399-6
18	1	PWA, CE4000 FLYBACK	See section 5.4
17	2	RIVET, CE4000 INS RET PLASTIC	128130-1
16	2	INSULATOR, CE4000 HS NOMEX	126923-4
15	1	COILS, CE4000 L/PLN MATCHED	127401-3
14	7	WASHER, CE4000 HEATSINK SHLDR	128120-1
13	7	#10 BELLVILLE WASHER SS	A10098-4
12	7	MSCREW, 10-32 X 3.50 TORX PNHD Z	128345-1
11	2	RIVET, CE4000 FAN PLENUM SNAP	127777-1
10	1	PLENUM, CE4000 FAN	127473-3
9	4	6-32 HEX NUT W/BELLE	A11056-1
8	16	SCREW, #6 X .250 MACH TORX PNHD	103436-70604
7	2	.5 X .136 X .02 NYLON WASHER	A10101-5
6	1	SHEILD, CE4000 MAIN BD RBN AP	128218-7
5	1	PWA, CE4000 BFG	See section 5.4
4	16	SEMS, 6-32 X .31 TORX PNHD STAR	103433-70605
3	10	8-32 X .31 SERR FLTHD T15 BZ	102156-1
2	2	KNOB, D350	D 8959-5
1	1	CHASSIS, CE4000 WELD/AP/PC	126222-11 ASM, NUMBER: 127390-4

#### NOTES:

1) THESE 8 SCREWS ARE USED TO FASTEN INPUT AND OUTPUT MODULES TO BACK PANEL.

2) THESE 4 NUTS ARE USED TO FASTEN OUTPUT MODULE BUSS BARS TO MAIN PWA.

3) SLIDE CABLE TIES (ITEM 25) THRU LANCES IN CHASSIS, PLACE RIBBON CABLE (PART OF ITEM 5) AGAINST CHASSIS SIDE PANEL BETWEEN LANCES, THEN SECURE CABLE TIES AROUND RIBBON CABLE.

#### **RECOMMENDED ASSEMBLY TORQUES**

ITEM NO.	C.P.N.	TORQUE SETTINGS
3	102156-1	12-14 IN LBS.
4	103433-70605	16-18 IN LBS.
8	103436-70604	10-12 IN LBS.
9	A11056-1	10-12 IN LBS.
12	128345-1	16-18 IN LBS
24	A11056-2	10-12 INLBS



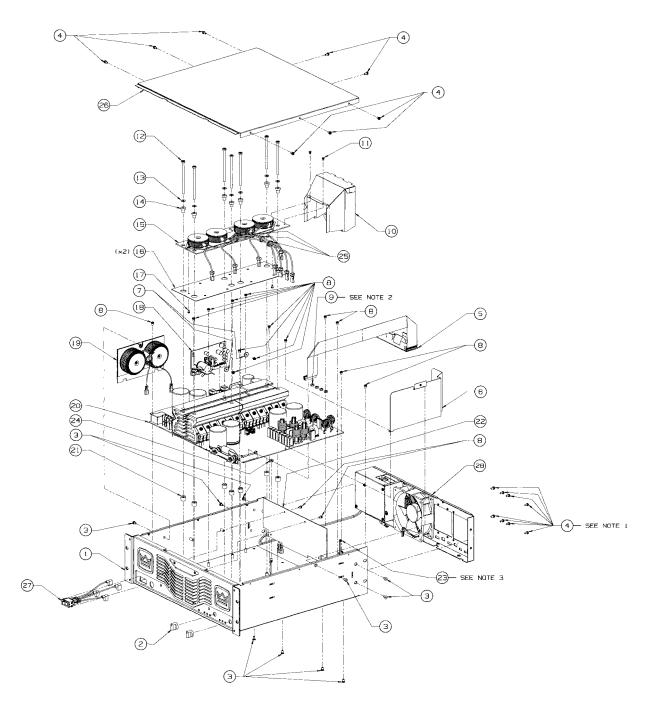


Figure 5.1 Amplifier Assembly (Exploded View)



#### 5.3.2 Back Panel Assembly

Refer to Figure 5.2 for Exploded View

Item	Quantity	Description	Part # (CPN)
13	1	LABEL, VDE EARTH GROUND	D 7037-1
12	2	8-32 HEX NUT W/BELLE	A11056-2
11	1	WIRE, 14 GRN/YEL RING X 6.0 X RING	A11544-G060G
10	1	SHIELD, CE400EMI FILTER	128229-7
9	1	WIRE, 14 BLU FAST X 21 X FLAG	A11386-HZ10M
8	1	WIRE, 14 BRN FAST X 21 X FLAG	103448-A21OM
7	4	STAND, 6-32 X 1.9375 HEX MALE/FEM	A12095-12
6	1	PWA, CE EMI FILTER	See section 5.4
5	1	WIRE, 14 GRN/YEL RING X 6.0 X FLAG	A11544-GO60M
4	1	IEC SNAP IN 15A UL/10A VDE	102650-1
3	8	SCREW, 6-32 X .250 MACH TORX PNHD	103436-70604
2	1	FAN, 120 X 120 X 38mm 12VDC 140CFM	126992-2
1	1	PANEL, CE4000 BACK AP/PC/PP	127227-12
			ASM. NUMBER:
			130251-2

#### NOTES:

1) CONNECT ITEM 8 TO "J9" & ITEM 9 TO "J10" ON ITEM 6 PWA PRIOR TO ASSEMBLING ITEM 10.

#### RECOMMENDED ASSEMBLY TORQUES

ITEM NO.	C.P.N.	<b>TORQUE SETTINGS</b>
3	103436-70604	13-15 IN LBS.
12	A11056-2	10-12 IN LBS.

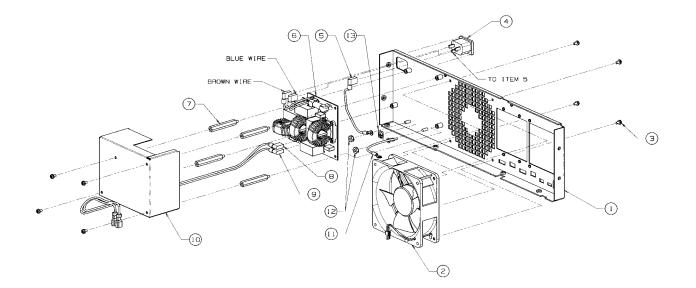


Figure 5.2 CE4000 Back Panel Assembly (Exploded View)

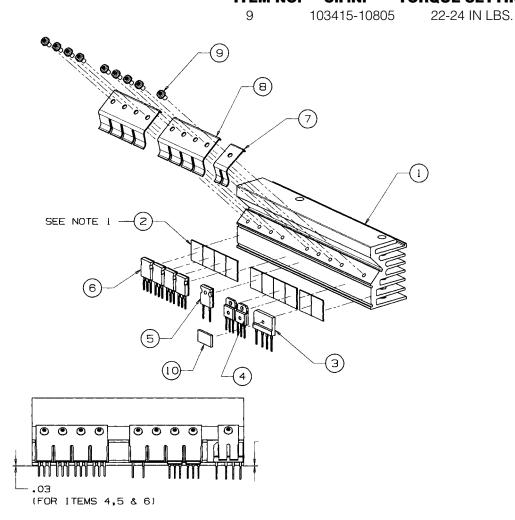


#### 5.3.3 CE4000 PS Primary Heatsink Assembly

Refer to Figure 5.3 for Exploded View

Item	Quantity	Description	Part # (CPN)
11	Х	TYPE 340HEATSINK COMPOUND	S2162-6
10	1	SHIM, CE4000 BRIDGE RECTIFIER	128246-1
9	9	8-32 X .312 TORX PNPH SEM	103415-10805
8	2	CLIP, CE40002 FINGER	127182-1
7	1	CLIP, CE4000 2 FINGER	127552-1
6	4	MOSFET, 0.11 OHM 500V	126738-1
5	1	DIODE, 30A 600V HYPERFAST	127457-1
4	2	MOSFET, 0.08 OHM 500V TO-247	127456-1
3	1	RECT, 50A 600V PC MNT BRIDGE	125427-1
2	2.5	WAFER, 3.000 X .90X.04 CERAMIC	127204-1
1	1	EXTRU, CE4000L-FR HS MACHINED	127976-3 ASM. NUMBER:
			128009-1

RECOMMENDED ASSEMBLY TORQUES ITEM NO. C.P.N. TORQUE SETTINGS







#### 5.3.4 CE4000 PS Diode Heatsink Assembly

Refer to Figure 5.4 for Exploded View

Item	Quantity	Description	Part # (CPN)
6	Х	TYPE 340HEATSINK COMPOUND	S2162-6
5	4	8-32 X .312 TORX PNPH SEM	103415-10805
4	1	CLIP, CE4000 4 FINGER SS .040	127182-1
3	4	DIODE, 30A 600V HYPERFAST	127457-1
2	1	WAFER, 3.00 X.90 X .04 CERAMIC	127204-1
1	1	EXTRU,CE4000 L-RR HS MACHINED	127977-3 ASM. NUMBER: 128010-1

#### RECOMMENDED ASSEMBLY TORQUES TEM NO. C.P.N. TORQUE SETTINGS

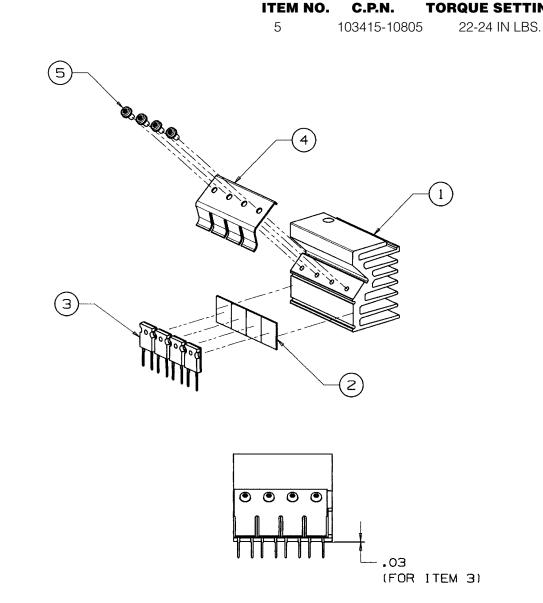


Figure 5.4 CE4000 PS Diode Heatsink Assembly (Exploded View)

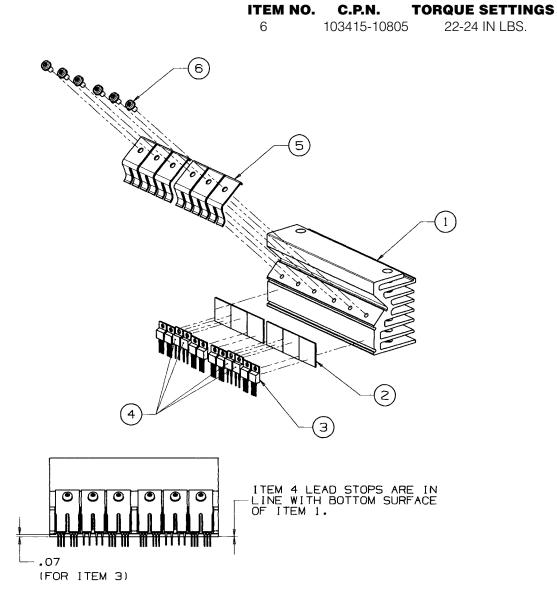


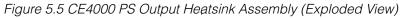
#### 5.3.5 CE4000 PS Output Heatsink Assembly

Refer to Figure 5.5 for Exploded View

ltem	Quantity	Description	Part # (CPN)
7	Х	TYPE 340HEATSINK COMPOUND	S2162-6
6	6	8-32 X .312 TORX PNPH SEM	103415-10805
5	6	CLIP, CE4000 2 FINGER	127552-1
4	4	DIODE, 300V ULTRAFAST APT15D30K	D9053-6
3	8	MOSFET, 250V 16A MTP16N25E	C10207-6
2	2	WAFER, 2.7000 X .90 X .04 CERAMIC	127564-1
1	1	EXTRU, CE4000 R-HALF HS MACHINED	127978-3 ASM. NUMBER: 128011-3

#### RECOMMENDED ASSEMBLY TORQUES







# 5.3.6 CE4000 Standard Input Assembly Refer to Figure 5.6 for Exploded View

Item	Quantity	Description	Part # (CPN)
3	4	SCREW, #4 X .5 PNHD PH AB BZ	A10111-70408
2	1	PWA, CE INPUT EC	See section 5.4
1	1	PANEL, CE INPUT CHARCOAL	126787-5
			ASM. NUMBER: 127049-1

#### **RECOMMENDED ASSEMBLY TORQUES**

ITEM NO.	C.P.N.	TORQUE SETTINGS
3	A10111-70408	4-5 IN LBS.
2 (REF)	103435-70608	13-15 IN LBS.

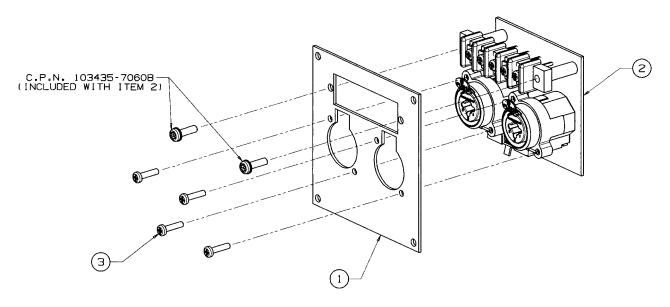


Figure 5.6 CE4000 Standard Input Assembly (Exploded View)



# 5.3.7 CE4000 Standard Domestic Ouput Assembly Refer to Figure 5.7 for Exploded View

ltem	Quantity	Description	Part # (CPN)
5	4	SCREW, 6-32 X .250 MACH TORX PNHD	103436-70604
4	1	SHEILD, CE4000 OTPT BUSS BAR	128203-1
3	1	INSULATOR, CE4000 OTPTBUSS BAR	128202-1
2	4	BAR, CE4000 OUTPUT BUSS AP	127672-2
1	1	PWA, CE4000 SPEAKON/BDG POST OTPT	See section 5.4
			ASM. NUMBER: 127831-1

# **RECOMMENDED ASSEMBLY TORQUES**

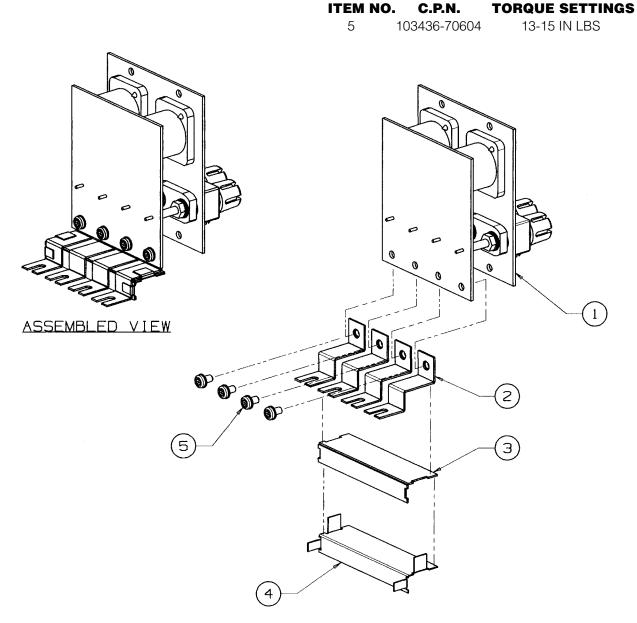


Figure 5.7 CE4000 Standard Domestic Output Assembly (Exploded View)



# 5.3.8 CE4000 Power Switch Assembly Refer to Figure 5.8 for Exploded View

Item	Quantity	Description	Part # (CPN)
3	2	WIRE, 16 WHT FAST X 4 X FLAG	A11518-K040P
2	2	WIRE, 16 BLK FAST X 4 X FLAG	A11608-EO30R
1	1	SWITCH, ROCKER PNL MNT DPST 16A	127455-1
			ASM. NUMBER: 128425-1

## **NOTES:**

1) MARKINGS 1, ID, 2, 2D ARE IDENTIFIED ON SWITCH HOUSING. 2) J26, J27, J28, J29 ARE CORRESPONDING LOCA-

TIONS ON PWA.

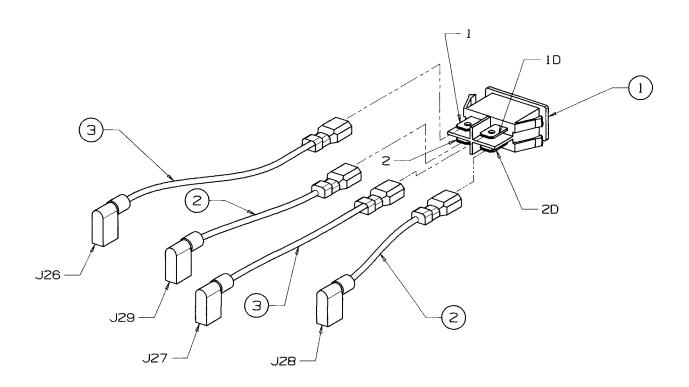


Figure 5.8 CE4000 Power Switch Assembly (Exploded View)



# **5.4 Circuit Board Parts**

This section includes electrical parts lists for this product. All serviceable parts and assemblies will have a Crown Part Number (CPN) listed in this section. The parts listed are current as of the date printed. Crown reserves the right to modify and improve its products for the benefit of its customers. Please note: where reference designations are listed as "installed on next assembly," the CPN (Crown Part Number) for the associated part may be found in Section 6.2, Mechanical Parts.

#### 5.4.1 Circuit Board and Schematic Part Numbers

The schematics referenced and provided are representative only. There may be slight variations between amplifier to amplifier. These schematics are intended to be used for troubleshooting purposes only.

Note on circuit board designations: Crown circuit boards are referenced with a PWA and/or PWB part number. PWA stands for <u>Printed Wire Assembly</u>. This is the completed circuit board with all components assembled. PWB stands for <u>Printed Wire Board</u>. This is the circuit board only, without components.

#### **CE4000 MAIN**

PWA NUMBER: 126218-13 Drawing Sheet: 41 42

PWA NUMBER: 126218-14 Drawing Sheet: 41

42

#### CE4000 BFG

PWA NUMBER: 126828-7

PWA NUMBER: 126828-12 (REV.2)

PWA NUMBER: 126828-12 (REV.A)

#### CE4000 INPUT CE

PWA NUMBER: 126883-4 Drawing Sheet: 4

### CE4000 FLYBACK

PWA NUMBER: 127027-6

#### CE4000 POT BOARD

PWA NUMBER: 127563-3

# CE 4K SPEAKON/BDG POST OTPT

PWA NUMBER: 127820-3 Drawing Sheet: 5

#### CE4000 EMI FILTER

PWA NUMBER: 128243-6



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8	C R C	OMPONI 325,R: DNTAC	ENTS: C 363,R36 T AREA	2,C700 4,R463 OF 1/4	,R42,R1 , AND R	42,R1 464. '' DN	43,R1 ADHES BOTH	49,R1! IVE MI THE DI	PORT TO 50,R242, JST HAVE ESIGNATE DNENT.	R243.R2 A MINI	49,F MUM	[NG 7250,	
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TOLERA			PE	TAS	6-19-00	1	PW	Α,	CE400	90 MA	١١	١	
	90 - ±	. ØZ "				SIZE	DWG ND.		1000	1 0 1 7			REV
	00 - ± .5 - ±					А			1262	18-13	<u>ح</u>		A
DO NOT 9	SCALE 1	RAWING				SCALE	NONE	PROJN	ID. MD425D0	SHEET	SHE	ET 1 OF	4 B



		DESCRIPTION	MAP LOC.
	C.P.N.	CAP, 940UF 450V HIGH RIPPLE	D 6
21	127046-1	1.5UF 630V 5% RADIAL POLY CAP	E 5
.2	C10094-8	2.2UF 50V 5.5MM HIGH SMD	DВ
3	126542-1	2.2UF 50V 5.5MM HIGH SMD	E 4
.4	126542-1		B 10
:5			B 4
.6	127046-1	CAP, 940UF 450V HIGH RIPPLE	D 13
.7	127047-1	CAP, 820UF 150V HIGH RIPPLE	C 13
.8	127047-1	CAP. BZØUF 150V HIGH RIPPLE	E 3
:9		.33UF 50V 5% CHIP X7R 1210	D 4
210	A11427-334J6	.33UF 50V 5% CHIP X7R 1210	D 4*
<u> </u>		.1UF 50V CHIP CAP 10% 0805 X7R	D 3*
.12	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 3
213		.1UF 50V 5% X7R 0805 T/R	D 3
C1 <u>4</u>		.01 UF 50V 10% X7R MLC 0805	M 6*
215		220PF 50V 5% NPO 1206 SMD	
C1 <u>6</u>	126551-1	100UF 25V 5.5MM HIGH SMD	
217	C10090-6	4.7UF 400V 10% AXIAL FILM	<u>D9</u>
C1 8	126551-1	100UF 25V 5.5MM HIGH SMD	D 7
219	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 3
20		.1UF 50V CHIP CAP 10% 0805 X7R	D 3*
221		560PF 50V 1% NPO MLC 0805	D 4
222	A11369-152J2	1500PF 50V 5% NPD MLC 0805 T/R	<u>D3</u>
223	126539-1	10UF 16V 5.5MM HIGH SMD	DЗ
224	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u> </u>
225	C 7091-9	.33 UF 50V Z5U CHIP CAP	D 4*
26	A11427-102K2	.001UF 50V 10% X7R CER CHIP	СВ
227	C 4253-B	4.7UF 63V 20% VERT ELECT T/R	E 4
28	C 8268-2	220UF 35V 20% VERT	88
229	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 8*
230	126551-1	100UF 25V 5.5MM HIGH SMD	M 7
231	126551-1	100UF 25V 5.5MM HIGH SMD	N 7
232	126551-1	100UF 25V 5.5MM HIGH SMD	07
233	A11369-222K5	2200PF 50V 10% CHIP NPO 1206	C 8*
234	A11427-103K2	.01 LF 50V 10% X7R MLC 0805	В 3
235	A11369-471K2	470PF 50V 10% NPO 0805 T/R	СВ
C36	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	DB
C37	126551-1	100UF 25V 5.5MM HIGH SMD	DB
C38	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 8
C39	126539-1	10UF 16V 5.5MM HIGH SMD	DB
C40		OPEN	A 7
C41	126551-1	100UF 25V 5.5MM HIGH SMD	P 7
C42		100 PF 50V 5% NPO MLC 0805 T/R	М Б*
C43		.001UF 50V 5% NPO MLC 0805 T/R	C 9*
C44	A11369-102J2		AB
C45	126551-1	100UF 25V 5.5MM HIGH SMD	E 4
C45 C46	A11427-104K2		E 9*
C47	C 9465-3	10UF 50V 20% VERT ELECT T/A	В 4
LT/			
<u>.</u>			
ITROLLED LUDING A	UNCONTROLLE RWISE MARKED IN R COPY, COPIES DF T SSOCIATED ELECTRO ERENCE ONLY.	ED INK BY CM AS A INACIIVE HESE DOCUMENTS For Reference Use Only	
OPERTY D	INGS AND SPECIFIC	ATIONS ARE THE SIZE DWG ND. DNAL, INC. AND A 126218-	-13



		PARTS LIST		
REF DES	C. P. N.	DESCRIPTION	MAP LOC.	
	C 7091-9	.33 UF 50V Z5U CHIP CAP	A 3	
C49	103191-1	0,47UF 50V Z5U 1210 T/R	В 3	
	126542-1	2.2UF 50V 5.5MM HIGH SMD	A 4	
C50	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 8*	
<u>C51</u>	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 8*	
C52		.01 UF 50V 10% X7R MLC 0805	мв	
<u>C53</u>	A11427-103K2	CAP, 470UF 25V RAD ELECT	I 13	
<u>C54</u>	126630-1	.1UF 50V CHIP CAP 10% 0805 X7R	D 1*	_
C56	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0 1*	
<u>C57</u>	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 1*	
C58	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 1*	
C59	A11427-104K2	.10F 50V CHIP CAP 10% 0805 X7R	0 1	
C60	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0 1	
C61	A11427-104K2	10F 50V CHIP CAP 10% 8085 X7R	С В*	_
C62		.10F 50V CHIP CAP 10% 0805 X7R	H 14	
C63		.33UF 50V 5% CHIP X7R 1210	G 14	
C64	125508-1	10UF 50V 20% SMT AL ELECT T/R	G 14	
C65		.1UF 50V CHIP CAP 10% 0805 X7R	H 14	
C66	102438-560K2	56PF 200V 10% NPO 0805 T/R	Н 13	
C67	102438-560K2	56PF 200V 10% NPO 0805 T/R	H 14	
C68	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 5	
C69		.1UF 50V CHIP CAP 10% 0805 X7R		
C70	126542-1	2.2UF 50V 5.5MM HIGH SMD	8.9*	
C71	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 3	
C72	103191-1	0.47UF 50V Z5U 1210 T/R		
C73	126551-1	100UF 25V 5.5MM HIGH SMD	A 4 E 7*	
C74		.1UF 50V CHIP CAP 10% 0805 X7R	-	
C75	A11427-473K5	.047UF 50V CHIP CAPACITOR X7R	<u> </u>	
C76	126542-1	2.2UF 50V 5.5MM HIGH SMD	<u> </u>	
C78	A11427-102K2	.001UF 50V 10% X7R CER CHIP	<u> </u>	
C79	126551-1	100UF 25V 5.5MM HIGH SMD	<u>E 7</u>	
C80	126551-1	100UF 25V 5.5MM HIGH SMD	E 8	
C81	126551-1	100UF 25V 5.5MM HIGH SMD		
C82	126551-1	100UF 25V 5.5MM HIGH SMD	M 5	
СВЭ	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	L 6*	
C84	A11427-104K2		<u> </u>	
C85	126551-1	100UF 25V 5.5MM HIGH SMD	L 5	
C86	126551-1	100UF 25V 5.5MM HIGH SMD	L 6	
C87	C10516-0	470.UF 10V 20% LOW ESR RDL T/R	L 6	
CBB	C10516-0	470.UF 10V 20% LOW ESR RDL T/R	L 7	
C89	A11427-103K2		<u> </u>	
C90	103191-1	0.47UF 50V Z5U 1210 T/R	N 3*	
C91	A11427-104K2		N 5	
C92	A11427-104K2		N 3*	
C93	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	С 3*	
C94	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 3*	
C95	A11427-104K2		A 3*	
C96	A11427-104K2		E 3*	
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RE FOR REF	ERENCE ONLY.			Ī
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		PARTS LIST	
REF DES	<u>C P N</u>	DESCRIPTION	MAP LOC.
C97		.1UF 50V CHIP CAP 10% 0805 X7R	E 12
C98		.1UF 50V CHIP CAP 10% 0805 X7R	D 12
C99		.1UF 50V CHIP CAP 10% 0805 X7R	C 7*
		.001UF 50V 5% NPO MLC 0805 T/R	N 13
C100	A11305-10232	OPEN	P 5*
C101	482404 1	0.47UF 50V Z5U 1210 T/R	P 5
C102	103191-1		0.6
C103		100PF 200V NPO 0805 T/R	06
C104		220PF 200V 1% NPD 0805	0.6*
C105		1000PF 200V 5% 1210 NPO	0 6*
C106		330PF 250V 10% NPO 0805 T/R	P 6
C107		220PF 200V 1% NPO 0805	
C10B		.047UF 50V CHIP CAPACITOR X7R	06
C109		0.01UF 500V 5% X7R 1206 T/R	06
C110		12PF 50V 10% NPO 0805 T/R	P 5*
C111		12PF 50V 10% NPO 0805 T/R	05*
C112	A11369-471F2	470.PF 50V 1% NPO MLC 0805	05*
C113		100 PF 50V 5% NPO MLC 0805 T/R	0 5*
C114	A11369-332F5	3300.PF 50V 1% NPO MLC 1206	05
C115	A11369-332F5	3300.PF 50V 1% NPO MLC 1206	P 6*
C116	A11369-120K2	12PF 50V 10% NPO 0805 T/R	P 6*
C117	A11369-120K2	12PF 50V 10% NPO 0805 T/R	P 6*
C118	A11369-470K2	47PF 50V 10% NPO 0805 T/R	N 5*
C119	A11369-470K2	47PF 50V 10% NPO 0805 T/R	N 6*
C120		.1UF 50V CHIP CAP 10% 0805 X7R	05
C121	A11427-104K2		05
C122	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 5*
C123	103191-1	0.47UF 50V Z5U 1210 T/R	05
C124		.1UF 50V CHIP CAP 10% 0805 X7R	06
C125		.1UF 50V CHIP CAP 10% 0805 X7R	06
C126		.1UF 50V CHIP CAP 10% 0805 X7R	N 6*
C127	103191-1	0.47UF 50V Z5U 1210 T/R	06
C128	C10466-B	.22UF 50V 5% MTL FILM RDL T/A	М 9
C129		.1UF 250V 5% MTL POLY FILM T/A	M 10
C120		0.01UF 50V 10% X7R SMD 1206	N 7
C131		, 1UF 250V 5% MTL POLY FILM T/A	M 10
	A10434-104JD		N 12
C132		.047UF 250VDC 5% MET POLY T/A	N 12
C133			M 12
C134		0.22UF 50V 5% X7R 1206 T/R	M 12
C135		.047UF 250VDC 5% MET POLY T/A	
C136		.1UF 250V 5% MTL POLY FILM T/A	N 13
C137		. 1UF 250V 5% MTL POLY FILM T/A	N 13
C138		. 1UF 250V 5% MTL POLY FILM T/A	N 13
C139	A10434-104JD		N 13
C140	· · · · · · · · · · · · · · · · · · ·	.1UF 250V 5% MTL POLY FILM T/A	<u> </u>
C141		12PF 50V 10% NPO 0805 T/R	E 4
C142	103191-1	0.47UF 50V Z5U 1210 T/R	A 9
C143	A11369-221J5	220PF 50V 5% NPD 1206 SMD	В 9
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NTROLLED C CLUDING AS	UNCONTROLLE WISE MARKED IN RE OPY, COPIES OF TH SOCIATED ELECTROM RENCE ONLY.	ID INK BY CM AS A For Reference Use Only	
HESE DRAWI	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP S FOR THE MANUFAC	INAL, INC. AND A 126218-	13 「



			MAP LOC.
	C.P.N.	DESCRIPTION	A 4*
<u>C144</u>	A11427-473K5	.047UF 50V CHIP CAPACITOR X7R	N B
C145	A11427-33435	.33UF 50V 5% CHIP X7R 1210	N B
C146	A11427-103K5	0.01UF 50V 10% X7R SMD 1206	мб
<u>C147</u>		.1UF 50V CHIP CAP 10% 0805 X7R	M 7*
_148	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 7
2149	130561-1	10UF 25V 20% ALUM ELEC SMT T/R	N 7*
2150		1UF 50V CHIP CAP 10% 0805 X7R	M 7*
C151		1000PF 50V 10% NPO 1206 SMD	N 7*
C152	A11369-102K5	1000PF 50V 10% NPO 1206 SMD	N 6*
C153	C 6995-2	022UF 100V CHIP CAPACITOR X7R	N 5*
C154	A11369-221J5	220PF 50V 5% NPO 1206 SMD	
C155	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u>N 6*</u>
C156	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u>N 6*</u>
C157	126539-1	10UF 16V 5.5MM HIGH SMD	N 6
C158	126539-1	10UF 16V 5.5MM HIGH SMD	NB
C159	A11369-221K2	220.PF 50V 10% NPO MLC 0805	<u>N 6</u>
C160	127684-1	.0047UF 5% 16V 0805 FILM SMT	0 4*
C161	127684-1	.0047UF 5% 16V 0805 FILM SMT	0 4*
C162		.1UF 50V 5% X7R 0805 T/R	0 5*
C163	A11369-221J5	220PF 50V 5% NPO 1206 SMD	0 5*
C164	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	05*
C165		220PF 50V 5% NPO 1206 SMD	0.5*
C166		.001UF 50V 5% NPO MLC 0805 T/R	0 5*
C167		.001UF 50V 5% NPO MLC 0805 T/R	N 5*
C168		220PF 50V 5% NPO 1206 SMD	0 5*
C169	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	N 5*
C170	126623-1	47UF 16V 6.3X5.5MM 20% SMT	05
C171		1000PF 50V 10% NPO 1206 SMD	L 3*
C172	126539-1	10UF 16V 5.5MM HIGH SMD	МБ
C173	126539-1	10UF 16V 5.5MM HIGH SMD	P 5
C174	126539-1	10UF 16V 5.5MM HIGH 5MD	05
C175	126543-1	2.2UF 50V 5.5MM HIGH NP SMD	N 5
C175	103191-1	0.47UF 50V Z5U 1210 T/R	M 4*
C177		.1UF 50V CHIP CAP 10% 0805 X7R	L 3*
C178	ATT 427 104K2	0PEN	L 8
	1 1 1 4 27 - 1 84 15	0.18UF 50V 5% X7R 1206 T/R	N 2*
<u>C179</u>		100UF 25V 5.5MM HIGH SMD	N 3
<u>C180</u>	126551-1	100UF 25V 5.5MM HIGH SMD	М 5
<u>C181</u>	126551-1	.1UF 50V CHIP CAP 10% 0805 X7R	L8
C182	ATT42/-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	LB
<u>C183</u>	A1142/-104K2	116 50V CHIP CAP 10% 0805 X/H	L 11*
C1B4		.1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R	
C185	A11427-104K2		КВ
C186	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	К 8
C187	A11427-104K2		К В*
C188		150PF 250V 10% NPO 0805 T/R	К В*
C189		150PF 250V 10% NPO 0805 T/R	N 9
C190	A10434-473JD	.047UF 250VDC 5% MET POLY T/A	<u><u> </u></u>
NTROLLED CLUDING /	UNCONTROLL ERWISE MARKED IN R COPY, COPIES OF T ASSOCIATED ELECTRO	ED INK BY CM AS A INACTIVE HESE DOCUMENTS	
E FOR RE	ERENCE DNLY.		
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REF DES	C. P. N.	DESCRIPTION	MAP LOC.
2191		.1UF 250V 5% MTL POLY FILM T/A	в и
2192		.047UF 250VDC 5% MET POLY T/A	е и
2193		150PF 250V 10% NPO 0805 T/R	К 11*
2194		150PF 250V 10% NPO 0805 T/R	К 11*
2195	126551-1	100UF 25V 5.5MM HIGH SMD	К 12
196		.1UF 50V CHIP CAP 10% 0805 X7R	К 11
C197		.1UF 50V CHIP CAP 10% 0805 X7R	К 12
198		.1UF 50V CHIP CAP 10% 0805 X7R	M 6*
199		470PF 50V 10% CHIP NPO 1206	P 6*
200	A11369-102J2	.001UF 50V 5% NPD MLC 0805 T/R	D 13
201		DPEN	P 3*
202	103191-1	0.47UF 50V Z5U 1210 T/R	РЗ
203	102438-101K2	100PF 200V NPO 0805 T/R	04
204	102438-221F2	220PF 200V 1% NPO 0805	04
205	102438-10215	1000PF 200V 5% 1210 NPO	0 4*
206		330PF 250V 10% NPO 0805 T/R	04*
207		220PF 200V 1% NPO 0805	P 4
208		.047UF 50V CHIP CAPACITOR X7R	04
209	130536-103J5	0.01UF 500V 5% X7R 1206 T/R	04
210	A11369-120K2	12PF 50V 10% NPO 0805 T/R	Р 3*
211	A11369-120K2	12PF 50V 10% NPO 0805 T/R	0 4*
212	A11369-471F2	470.PF 50V 1% NPO MLC 0805	0 4*
213	A11369-101J2	100 PF 50V 5% NPO MLC 0805 T/R	0 4*
214	A11369-332F5	3300.PF 50V 1% NPO MLC 1206	04
215	A11369-332F5	3300.PF 50V 1% NPO MLC 1206	P 4*
216	A11369-120K2	12PF 50V 10% NPO 0805 T/R	P 4*
217	A11369-120K2	12PF 50V 10% NPO 0805 T/R	P 4*
21B	A11369-470K2	47PF 50V 10% NPO 0805 T/R	N 4*
219	A11369-470K2	47PF 50V 10% NPO 0805 T/R	N 3*
220	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	04
221	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	04
222	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 4*
223	103191-1	0.47UF 50V Z5U 1210 T/R	04
224		.1UF 50V CHIP CAP 10% 0805 X7R	03
225	A11427-104K2		04
226		.1UF 50V CHIP CAP 10% 0805 X7R	N 3*
227	103191-1	0.47UF 50V Z5U 1210 T/R	03
228	C10466-8	. 22UF 50V 5% MTL FILM RDL T/A	P 9
229		. 1UF 250V 5% MTL POLY FILM T/A	P 10
230		0.01UF 50V 10% X7R SMD 1205	07
231	A10434-104JD		P 10
232		.1UF 250V 5% MTL POLY FILM T/A	P 12
233	A10434-473JD		P 12
234		0.22UF 50V 5% X7R 1206 T/R	
235		.047UF 250VDC 5% MET POLY T/A	0 12
236		.1UF 250V 5% MTL POLY FILM T/A	
237	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	0 13
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PERTY OF	NGS AND SPECIFICA CROWN INTERNATIO REPRODUCED, COP	NAL, INC. AND $ \Delta $ 126218-	13



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C238	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	P 13
C239	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	P 13
C240	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	0 13
C241	126542-1	2.2UF 50V 5.5MM HIGH SMD	<u>C 8</u>
C242	126542-1	2.2UF 50V 5.5MM HIGH 5MD	DB
C245	A11427-334J5	.33UF 50V 5% CHIP X7R 1210	0.6
C246	A11427-103K5	0.01UF 50V 10% X7R SMD 1206	0.6
C247	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	М 5
C248	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	07*
C249	130561-1	10UF 25V 20% ALUM ELEC SMT T/R	07
C250	A11427-104K2	1UF 50V CHIP CAP 10% 0805 X7R	P 7*
C251	A11369-102K5	1000PF 50V 10% NPO 1206 SMD	0 7 *
C252		1000PF 50V 10% NPD 1206 SMD	P 7*
C253	C 6995-2	022UF 100V CHIP CAPACITOR X7R	N 4*
C255		220PF 50V 5% NPO 1206 SMD	N 4*
C255	A11477-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 4*
C255	A11477-104K2	1UF 50V CHIP CAP 10% 0805 X7R	N 4*
C250 C257	126539-1	10UF 16V 5.5MM HIGH SMD	N 4
C258		10UF 16V 5.5MM HIGH SMD	N 4
		220.PF 50V 10% NPO MLC 0805	N 4
C259	127684-1	0047UF 5% 16V 0805 FILM SMT	03*
C260	127684-1	.0047UF 5% 16V 0805 FILM SMT	03*
C261		.1UF 50V 5% X7R 0805 T/R	0 3*
C262	A11427-10432	220PF 50V 5% NPD 1206 SMD	0 3*
C263	A11369-22133	.001UF 50V 5% NPD MLC 0805 T/R	0 3*
C264	A11369-10232	220PF 50V 5% NPO 1206 SMD	0.3*
C265	A11369-22135	.001UF 50V 5% NPO MLC 0805 T/R	0.3*
C266		.001UF 50V 5% NPO MLC 0805 T/R	N 3*
C267		220PF 50V 5% NPO 1206 SMD	0.3*
C268	A11369-22135	.001UF 50V 5% NPO MLC 0805 T/R	N 3*
C269	······································	47UF 16V 6.3X5.5MM 20% 5MT	03
C270	126623-1	470P 18V 8.3X5.3MM 28% 3M1 470PF 50V 10% CHIP NPO 1206	P 4*
C271		10UF 16V 5.5MM HIGH SMD	N 5
C272	126539-1	10UF 16V 5.5MM HIGH SMD	P 4
C273	126539-1	10UF 16V 5.5MM HIGH SMD	0.4
C274	126539-1	2.2UF 50V 5.5MM HIGH NP SMD	N 4
C275	126543-1		M 2*
C276	103191-1	0.47UF 50V Z5U 1210 T/R	E 3*
C277	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 3*
C27B		OPEN	N 2*
C279		0.18UF 50V 5% X7R 1206 T/R	B 7
C281	126623-1	47UF 16V 6.3X5.5MM 20% SMT	0 4
C282		470PF 50V 10% CHIP NPO 1206	E 8*
C283		.1UF 50V CHIP CAP 10% 0805 X7R	B 7*
C2B4	A11427-104K2		
C285	126551-1	100UF 25V 5.5MM HIGH SMD	N 3
C286	A11427-104K2		<u>К4</u> К5
C287	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u> </u>
NTROLLED	UNCONTROLLI RWISE MARKED IN R COPY, COPIES DF T SSOCIATED ELECTRO ERENCE ONLY.	ED INK BY CM AS A HESE DOCUMENTS For Reference Use Only	
HESE DRAW	INGS AND SPECIFIC.		-13
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UALL NOT	BE REPRODUCED, CO	PIED, DB USEN VI	



		PARTS LIST	1
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
C288		150PF 250V 10% NPO 0805 T/R	К 5*
C289	103430-151K2	150PF 250V 10% NPO 0805 T/R	K 5*
C290	A10434-473JD	.047UF 250VDC 5% MET POLY T/A	09
C291	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	09
C292	A10434-473JD	.047UF 250VDC 5% MET POLY T/A	0 9
C293		150PF 250V 10% NPO 0805 T/R	K 2*
C294	103430-151K2	150PF 250V 10% NPO 0805 T/R	K 2*
C295	126551-1	100UF 25V 5.5MM HIGH SMD	K 2
C296	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	К 2
C290	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	K 2
	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 7
C298 C299	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 4*
		1000PF 50V 10% NPO 1205 SMD	L 3*
<u>C300</u>	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 7*
C301	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 4*
<u>C302</u>		.1UF 50V CHIP CAP 10% 0805 X7R	A 4*
<u>C303</u>	A11427-104K2	OPEN	A 10
<u>C304</u>		OPEN	В 10
C305		.1UF 50V CHIP CAP 10% 0805 X7R	A 7
C306	· · · · · · · · · · · · · · · · · · ·	.10F 50V CHIP CAP 10% 0805 X7R	H 14
C307	A11427-104K2	.10F 50V CHIP CAP 10% 0805 X7R	в в
C30B	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 8
C309	A11427-104K2		М 3
C310	125508-1	10UF 50V 20% SMT AL ELECT T/R	M 9
C313	126542-1	2.2UF 50V 5.5MM HIGH SMD	D 3*
C314		0.01UF 50V 10% X7R SMD 1206	0 5
C315		470PF 50V 10% CHIP NPO 1206	к 8
C316	126551-1	100UF 25V 5.5MM HIGH SMD	КВ
C317	126551-1	100UF 25V 5.5MM HIGH SMD	КВ
C318	126551-1	100UF 25V 5.5MM HIGH SMD	КВ
C319	126551-1	100UF 25V 5.5MM HIGH SMD	<u>рз</u>
C320	126539-1	10UF 16V 5.5MM HIGH SMD	K 7
C321	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	
C322	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u>кв</u> 05*
C323	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	
C324	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	05
C325	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	P 5*
C326	A11427-104K2		<u>P 5*</u>
C327	A11427-104K2		P_5*
C328	A11427-104K2		P 5*
C329	A11427-104K2		0 2*
C330	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0 2*
C332	126539-1	10UF 16V 5.5MM HIGH SMD	D 8
C333	A11427-103K2		C 3*
C334	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	<u> </u>
C335	A11427-103K2		С 3*
C336	126539-1	10UF 16V 5.5MM HIGH SMD	м 5
C337	A11427-103K2		A 10
<u> </u>			
<u> </u>			
NTROLLED   NCLUDING A	COPY. COPIES OF T	ED INK BY CM AS A HESE DOCUMENTS NIC REPRODUCTIONS For Reference Use Only	
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	IS FOR THE MANUFA		



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
C338		.1UF 50V CHIP CAP 10% 0805 X7R	A 9
C339		0.22UF 50V 5% X7R 1206 T/R	N 2*
C340		.1UF 50V CHIP CAP 10% 0805 X7R	M 4*
C341		.1UF 50V CHIP CAP 10% 0805 X7R	M 4*
C342		.1UF 50V CHIP CAP 10% 0805 X7R	M 5*
C343		1UF 50V CHIP CAP 10% 0805 X7R	M 5*
C344		.1UF 50V CHIP CAP 10% 0805 X7R	0 2*
		1UF 50V CHIP CAP 10% 0805 X7R	0 2*
C345		.1UF 50V CHIP CAP 10% 0805 X7R	L 8
C346		1UF 50V CHIP CAP 10% 0805 X7R	L B
C347			C 11
C34B	C10325-6	2200.PF 250VAC 20% FILM Y2	M 4
C349	126539-1	10UF 16V 5.5MM HIGH SMD	
C350	and the second	.1UF 50V CHIP CAP 10% 0805 X7R	<u> </u>
C351		.1UF 50V CHIP CAP 10% 0805 X7R	0 6*
C352	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u> </u>
C353	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0 2*
C354	126551-1	100UF 25V 5.5MM HIGH SMD	<u>N 4</u>
C355	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 2*
C356	A11427-104KZ	.1UF 50V CHIP CAP 10% 0805 X7R	м 5
C357	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	м 5
C358	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 9*
C360	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	I 9*
C361	130636-103J5	0.01UF 500V 5% X7R 1206 T/R	I 9*
C363	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	H 7*
C365	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	I 7*
C366	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	I 12*
C367	130636-10315	0.01UF 500V 5% X7R 1206 T/R	I 12*
C369		0.1UF 500V 10% X7R 1210 T/R	I 10*
C371	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	0.1UF 500V 10% X7R 1210 T/R	I 10*
C372	127483-1	6300UF 125V 9A LOW ESL 5 PIN	L 10
C373	127483-1	6300UF 125V 9A LOW ESL 5 PIN	L 12
C374		0.1UF 500V 10% X7R 1210 T/R	I 9*
C375		0.01UF 500V 5% X7R 1206 T/R	I 7*
		0.1UF 500V 10% X7R 1210 T/R	H 12*
C377		0.01UF 500V 5% X7R 1206 T/R	I 10*
C378			I 8*
C380		0.1UF 500V 10% X7R 1210 T/R	I 9*
C382		0.1UF 500V 10% X7R 1210 T/R	<u> </u>
C384		0.1UF 500V 10% X7R 1210 T/R	
C386		0.10F 500V 10% X7R 1210 T/R	I 12*
C3B7		.1UF 50V 5% X7R 0805 T/R	19
C388		.1UF 50V 5% X7R 0805 T/R	J 9
C390			J 11
C391		.1UF 50V 5% X7R 0805 T/R	J 11
C397		.01UF 250V 5%MTL POLY FILM T/A	N 10
C398		.1UF 50V 5% X7R 0805 T/R	0 5*
C400	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	I 5*
C401	130636-103J5	0.01UF 500V 5% X7R 1206 T/R	I 4*
		and and a second a s	
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			MAP LOC.
REF DES	C.P.N.	DESCRIPTION	I 6*
C403	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	н 6*
C4Ø4	130636-104Kb		I 2*
C407			 I 1*
C408		8.818, 868, 67, 74, 74, 74, 74, 74, 74, 74, 74, 74, 7	I 3*
C409			I 3*
C410	130636-104K6		I_3 I_4*
C413	130636-104K6		I 6*
C414	<u>130636-103J5</u>	0.01UF 500V 5% X7R 1206 T/R	к б
C416	126551-1	100UF 25V 5.5MM HIGH SMD	<u>к в</u>
C417	126551-1	100UF 25V 5.5MM HIGH SMD	<u> </u>
C418	126551-1	100UF 25V 5.5MM HIGH SMD	<u> </u>
C419	126551-1	100UF 25V 5.5MM HIGH SMD	
C421	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	Кб
C422	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u> </u>
C423	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	P 4*
C424	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	P 4*
C425	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	03*
C426	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	03
C427	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	P 3*
C428	A11427-104KZ	.1UF 50V CHIP CAP 10% 0805 X7R	P 3*
C429	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	М 3*
C430	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	М 3*
C431	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 4*
C432	A11427-104K2	,1UF 50V CHIP CAP 10% 0805 X7R	M 4*
C435	130636-104K6		H 2*
C436	130636-103J5	0.01UF 500V 5% X7R 1206 T/R	I 3*
C437	130636-104K6		I 4*
C438		0.1UF 500V 10% X7R 1210 T/R	I 5*
C440		0.1UF 500V 10% X7R 1210 T/R	I 1*
C441	130636-1046	0.1UF 500V 10% X7R 1210 T/R	I 3*
C446	127483-1	6300UF 125V 9A LOW ESL 5 PIN	L 4
	127483-1	6300UF 125V 9A LOW ESL 5 PIN	L 2
	A11427-104J2	1UF 50V 5% X7R 0805 T/R	J 5
C449	A11427-104J2	.1UF 50V 5% X7R 0805 T/R	J 5
C453	A11427-104J2	.1UF 50V 5% X7R 0805 T/R	J 3
C454		1 UF 50V 5% X7R 0805 T/R	J3
C455	A11427-104J2		0 10
C497	A10434-103JD		0.3*
C498	A11427-104J2		N 1
C500	103191-1	0.47UF 50V Z5U 1210 T/R	
C501	103191-1	0.47UF 50V Z5U 1210 T/R	N 1
C502		220.PF 50V 10% NPO MLC 0805	N 1
C600	103191-1	0.47UF 50V Z5U 1210 T/R	
C601	103191-1	0.47UF 50V Z5U 1210 T/R	
C602		220.PF 50V 10% NPO MLC 0805	N 1
C700	C 7099-2	0.47UF 250VAC 50-400HZ RFI CAP	E 1
C7Ø1	A11427-102K2	.001UF 50V 10% X7R CER CHIP	<u> </u>
C702		OPEN	<u> </u>
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
D1		INSTALLED ON PREVIOUS ASSEMBLY	F 1
D2		INSTALLED ON PREVIOUS ASSEMBLY	F 5
D3		INSTALLED ON PREVIOUS ASSEMBLY	F 11
D4		INSTALLED ON PREVIOUS ASSEMBLY	F 10
D5		INSTALLED ON PREVIOUS ASSEMBLY	F 12
D6		INSTALLED ON PREVIOUS ASSEMBLY	F 12
D7	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	D 4
	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	DЗ
D8	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	B 9
D9		DIODE, 30V 200MA SCHOTTKY SOT23	B 9
D10	126549-1	DIODE, MMBD4148/914 SOT-23 SMT	E 4
D11	C 9283-0	DIODE, 30V 200MA SCHOTTKY SOT23	89
D12	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	в 9
D13	126549-1		L 3*
D14	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	B 8
D15	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	B 11
D16		OPEN	A 8
D17		OPEN	
D1B	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	A 4
D19	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	A 3
D22	125255-1	DIODE, ULTRAFAST 200V 1A SMA	<u>H 14</u>
D24	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	0 1
D25	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	01
D26	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	89
D27	C 9283-0	DIODE, MMBD414B/914 SOT-23 SMT	89
D33	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	C 2
D34	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	L G
D35	125593-1	DIODE, SCHOTTKY 40V 1A SMA	L 6
D36	125593-1	DIODE, SCHOTTKY 40V 1A SMA	L 7
D30 D37	C 9929-B	TL431ACLP ADJ PREC RENC T/A	мз
D37	С 9929-8	TL431ACLP ADJ PREC RENC T/A	МЗ
D30 D43	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	B 10
D43	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	87
	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	A 4
D45		DIODE, MMBD4148/914 SOT-23 SMT	N 13
D100	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 13
D101	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 12
D102	C 9283-0		N 12
D103	C 9283-0	DIDDE, MMBD4148/914 SDT-23 SMT	P 5
D104	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	P 6
D105	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	P 6
D106	C 9283-0	DIODE, MMBD414B/914 SOT-23 SMT	N 5*
D107	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	
D109	C 9929-8	TL431ACLP ADJ PREC RENC T/A	N 7
D110	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	P 5
D120	C 9283-0	DIODE. MMBD4148/914 SDT-23 SMT	M 5
D121	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	М 5
D122	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 2
D123	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 7
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BOBERTY DE	CROWN INTERNAT	IDNAL, INC. AND A 126218-	13
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		PARTS LIST	MAP LOC.
REF DES	C.P.N.	DESCRIPTION	
D124	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	LB
D125	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT DIODE, MMBD4148/914 SOT-23 SMT	мв
D126	C 9283-0		мв
D127	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT DIODE, MMBD4148/914 SOT-23 SMT	М 5
D128	C 9283-0	THE PERSON ARRY 1A	N 10
D129	125620-1	ENT STATES AND	LB
D130	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT DIODE, SCHOTTKY 40V 1A SMA	К 7
D131	125593-1	DIODE, SCHOTTKY 40V 1A SMA	К 7
D132	125593-1	DIODE, MMBD4148/914 SOT-23 SMT	М 5
D133	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 11
D134	C 9283-0	OPEN	ЪВ
D138 D139	<u> </u>	OPEN	19
D139	+	INSTALLED ON PREVIOUS ASSEMBLY	J 9
D140		INSTALLED ON PREVIOUS ASSEMBLY	JB
D141 D142	<u> </u>	INSTALLED ON PREVIOUS ASSEMBLY	<u> </u>
D143	<u>+</u>	INSTALLED ON PREVIOUS ASSEMBLY	<u> </u>
D144		OPEN	<u> </u>
D145		OPEN	J 11
D146	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	<u>M 4</u>
D200	C 9283-Ø	DIODE, MMBD4148/914 SOT-23 SMT	0 13
D201	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	0 13
D202	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	0 12
D203	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	P 3
D204	126549-1	DIODE.30V 200MA SCHOTTKY SOT23	P 4
D205	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	P 4
D206	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 4*
D207	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23 TL431ACLP ADJ PREC RFNC T/A	P 7
D209	C 9929-8	DIODE, MMBD4148/914 SOT-23 SMT	P 3
D210	<u>C 9283-0</u>	DIODE, MMBD4148/914 SOT-23 SMT	N 2
D222	C 9283-0	DIDDE, MMBD4148/914 SOT-23 SMT	L 7
D223	<u> </u>	DIODE, FAST RECOVERY 400V 1A	P 10
D229	125593-1	DIODE, SCHOTTKY 40V 1A SMA	КБ
D231 D232	125593-1	DIODE, SCHOTTKY 40V 1A SMA	Кб
	123333 1	OPEN	J 6
D238 D239		OPEN	J 5
D239		INSTALLED ON PREVIOUS ASSEMBLY	J 5
D240 D241		INSTALLED ON PREVIOUS ASSEMBLY	J 5
D241 D242		INSTALLED ON PREVIOUS ASSEMBLY	J 2
D243		INSTALLED ON PREVIOUS ASSEMBLY	J <u>3</u>
D244		OPEN	<u>J 2</u>
D245		OPEN	<u> </u>
D246	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	<u>M 3</u>
D500		OPEN	N 1
D600		OPEN	<u>01</u> BB
D700	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	_ <u></u>
	CODY CODIES D	N RED INK BY CM AS A For Reference Use Only	
NCLUDING	ASSOCIATED ELEC	TRONIC REPRODUCTIONS	
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		PARTS LIST	
REF DES	CPN	DESCRIPTION	MAP LOC.
	126616-1	XSISTOR, 100V 2A DRLNGTN DPAK	I 13
		XSISTOR, 100V 2A DRLNGTN DPAK	I 14
0105	126616-1	INSTALLED ON PREVIOUS ASSEMBLY	19
0106		INSTALLED ON PREVIOUS ASSEMBLY	J B
Q107			J 12
Q108		INSTALLED ON PREVIOUS ASSEMBLY	
Q109		INSTALLED ON PREVIOUS ASSEMBLY	J 11
Q110		INSTALLED ON PREVIOUS ASSEMBLY	J 7
Q111		INSTALLED ON PREVIOUS ASSEMBLY	J 9
Q112		INSTALLED ON PREVIOUS ASSEMBLY	J 12
Q113		INSTALLED ON PREVIOUS ASSEMBLY	J 10
0115	C 7448-1	MMBT3904 CHIP NPN	M 4
0200	C 7448-1	MMBT3904 CHIP NPN	P 4
		TRANSISTOR, MMBT3906LTI PNP SMT	P 4
0201	125798-1		N 2
Q2Ø3	C 7448-1	MMBT3904 CHIP NPN	
Q206		INSTALLED ON PREVIOUS ASSEMBLY	J 5
0207		INSTALLED ON PREVIOUS ASSEMBLY	JG
Q2ØB		INSTALLED ON PREVIOUS ASSEMBLY	J 2
Q2Ø9		INSTALLED ON PREVIOUS ASSEMBLY	J3
Q210		INSTALLED ON PREVIOUS ASSEMBLY	J 6
0211		INSTALLED ON PREVIOUS ASSEMBLY	J 4
0212		INSTALLED ON PREVIOUS ASSEMBLY	J 1
Q213		INSTALLED ON PREVIOUS ASSEMBLY	JЭ
	C 7448-1	MMBT3904 CHIP NPN	МЭ
0215			L 1
0500	C 7448-1	MMBT3904 CHIP NPN	
Q5Ø1	C 7448-1	MMBT3904 CHIP NPN	
0600	C 7448-1	MMBT3904 CHIP NPN	N 1
Q601	C 7448-1	MMBT3904 CHIP NPN	0 1
0700	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	B 9
Q7Ø1	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	A 9
0702	C 9258-2	BS170RLRM N-MOSFET 60V T/A	В 9
0703	125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	D 4
R1	101103-1	PTC, 6,0 OHM 265V	D 2
R2	101103-1	PTC, 6.0 DHM 265V	C 2
R3	C10450-2	.04 OHM 5W 3% WW VERT MNT	E 1
		.04 DHM 5W 3% WW VERT MNT	E 2
R4	C10450-2		
R5	C10450-2	.04 OHM 5W 3% WW VERT MNT	E 2
R6		10K 1/10W 1% SMD 0805 T/R	СЗ
R7	A11368-10521	10.5K .10W 1% MF 0805	E 3*
R8	A11368-10521	10.5K .10W 1% MF 0805	E 4*
R9	A11368-27432	274K .125W 1% CHIP RES T/R	СЗ
	A11368-10521	10.5K .10W 1% MF 0805	E 7*
R11		10.5K .10W 1% MF 0805	E 7*
R12		243KDHM .125W 1% CHIP RES T/R	A 3
		10.5K .10W 1% MF 0805	E 9*
R13			E 8*
R14		10.5K .10W 1% MF 0805	h
R15	A11368-30112	3.01KOHM .125W 1% CHIP RES T/R	88
R16		OPEN	B 10
	UNCONTROLLE		
NTROLLED C	OPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.		
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
D701	C 8369-8	1N747A 3.6V 5% ZENER .5W T/A	<u> </u>
E1	102476-1	LED, SMT R/A GREEN	
E2	102477-1	LED, SMT R/A RED	<u> </u>
E3	102477-1	LED, SMT R/A RED	<u>M 1</u>
E4	102476-1	LED. SMT R/A GREEN	<u>K 1</u>
E5	102476-1	LED, SMT R/A GREEN	N 1
E6	102477-1	LED, SMT R/A RED	0_1
E7	102477-1	LED, SMT R/A RED	0 1
FB1	100868-1	FERRITE, 70 OHM 25% 1206 SMT	D 7*
FB2	100868-1	FERRITE, 70 OHM 25% 1206 SMT	E_4*
FB3	100868-1	FERRITE, 70 OHM 25% 1206 SMT	A 4*
HS1	C 9918-1	TO220 VERT CLIP-ON HEATSINK	D 7
HS2	128009-1	ASM, CE3000 PS PRIMARY HS	F 1
H53	128010-1	ASM, CE3000 PS DIODE HS	F 10
H54	128011-1	ASM, CE3000 BCA OUTPUT HS	Н7
HS5	128011-1	ASM, CE3000 BCA OUTPUT HS	H 1
J1	101031-1	.250 FASTON, AUTO INSERTABLE	D 1
J2	101031-1	.250 FASTON, AUTO INSERTABLE	D 1
J3	101031-1	.250 FASTON, AUTO INSERTABLE	КВ
 	101571-1	HDR, 2 PO5 .1 CTR MTA SHRD	H 14
	127563-3	PWA, CE4000 POT BOARD	0 2
J6	130640-1	HEADER, 3M LATCH 26 PIN .1X.1	0 2
	1300401	OPEN	0.6
J7		OPEN	K 14
1B	A10020-34	6-32 X .375 PCB CAPTIVE STUD	K 14
<u></u>		.250 FASTON, AUTO INSERTABLE	MB
J11	101031-1	.250 FASTON, AUTO INSERTABLE	N B
J12	101031-1	.250 FASTON, AUTO INSERTABLE	K 11
<u>J13</u>	101031-1	.250 FASTON, AUTO INSERTABLE	К 5
J14	101031-1	.250 FASTON, AUTO INSERTABLE	0.8
J15	101031-1	.250 FASTON, AUTO INSERTABLE	P 8
J16	101031-1	.250 FASTON, AUTO INSERTABLE	K Z
J17	101031-1		
J18		OPEN 6-32 X .375 PCB CAPTIVE STUD	L 14
J19	A10020-34		
J20	· · · · · · · · · · · · · · · · · · ·		0 1
J21			E 4
J22	101031-1	.250 FASTON, AUTO INSERTABLE	D 2
J23	101031-1	.250 FASTON, AUTO INSERTABLE	A 7
J24	127030-1	CONN, 7 PIN RECEPTACLE	A 10
J25	127031-1	CONN, 15 PIN RECEPTACLE	
J26	101031-1	.250 FASTON, AUTO INSERTABLE	
J27	101031-1	. 250 FASTON, AUTO INSERTABLE	<u> B 2</u>
J28	101031-1	.250 FASTON, AUTO INSERTABLE	<u> </u>
J29	101031-1	.250 FASTON, AUTO INSERTABLE	B 2
J30		OPEN	0.5
К1	128135-1	RELAY, 30A 250V 12VCOIL PCB MT	<u> </u>
L1	127988-1	CHDKE,10UH <0.10HM SMT .3" DIA	I 13
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R17		5.10HM 0.125W 5% 1206 T/R	E 7*
R18		24.9K 1/10W 1% SMD 0805 T/R	D 4
	A10266-5141	510. KDHM .25W 5% CF T/R	D 2
R19	C 8982-8	TO-220 XSISTOR HOLDER, PLASTIC	D 2
R1X		510. KOHM . 25W 5% CF T/R	E 3
R20	A10266-5141	158KOHM . 1W 1% 0805 T/R	E 3
R21			D 2
R22	A10265-45331		E 3
R23	A10265-45331	121KOHM .125W 1% CHIP RES T/R	D 3*
R24	A11368-12132	FREEDOM . TZSW 17 ME T/P	 D 4
R25		581KOHM . 25W 1% MF T/R	D 4
R26		681K0HM . 25W 1% MF T/R	C 4
R27	A10265-39231		<u> </u>
R28	A10265-39231		<u> </u>
R29		33.2 OHM 1% 0805 RES T/R	C 2
R2X	C 8982-8	TO-220 XSISTOR HOLDER, PLASTIC	<u>D_4*</u>
R30		16.2KOHM .1W 1% 0805 T/R	<u>D 4*</u>
R31		10K 1/10W 1% SMD 0805 T/R	<u>L_4*</u> E_4
R32		10 OHM 0.25W 1% 1210 T/R	
R33		1 DHM 0.5W 1% 2010 T/R	E 3*
R34		1 OHM 0.5W 1% 2010 T/R	E 4*
R35		274K .125W 1% CHIP RES T/R	<u> </u>
R36		374. OHM 1/10W 1% SMD 0805 T/R	D 4*
R37		10.0HM 1/BW 5% SMD 1206 T/R	D 4
R3B		4.02KOHM .125W 1% CHIP RES T/R	D 4*
R39		57.6KOHM 0.1W 1% 0805 T/R	D 4*
R4Ø		4.02KOHM .125W 1% CHIP RES T/R	D 4
R41	A11368-20021	20.KOHM .1W 1% CHIP 0805	D 3
R42	126564-1	300HM 10W 5% VERT THICK FILM	I 14
R43	A11368-10001	100 OHM 1% 0805 RES T/R	M 6*
R44	A11371-5R12	5.10HM 0.125W 5% 1206 T/R	E 7*
R45	A11371-5R12	5.10HM 0.125W 5% 1206 T/R	E B*
R46	A11371-5R12	5.10HM 0.125W 5% 1206 T/R	E 9*
R47	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 8
R48	A11371-3005	30 OHM 1W 5% 2512 T/R	B 9
R49	A11368-82511	B.25KOHM .1W 1% CHIP 0805	B 8
R50	A11368-12131	121KOHM, 0.10W 1% CHIP 0805	C 8*
R51		90.9K, 0.10W 1% MF 0805	СВ
R52		15.4K 1/10W 1% SMD 0805 T/R	С 8
R53		15.4K 1/10W 1% SMD 0805 T/R	C 7
R54	A11371-3005	30 DHM 1W 5% 2512 T/R	C B
R55	A11368-33821	33.2 OHM 1% 0805 RES T/R	В 3
R56	A11368-10021	10K 1/10W 1% SMD 0805 T/R	B 3*
R57		274K .125W 1% CHIP RES T/R	B 4
R58		33.2 OHM 1% 0805 RES T/R	ВЗ
R59		100 OHM 1% 0805 RES T/R	D8
		1 DHM .1W 1% 0805 T/R	DB
R60	A11368-33R21	33.2 OHM 1% 0805 RES T/R	B 3*
R61	A11300-33R21	33.2 0,101 17. 2003 NEG 1771	<u> </u>
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	S FOR THE MANUFA	TURE OR SALE	



		·····	ARTS LIST	MAP LDC.
EF DES	C.P.N.	DESCRIPTION 200K 0.1W 1% 9		A 8
862		100 OHM 1% 08		M 2*
163		681KOHM . 1W 12		B 7
165		1.KOHM .1W 1%		B 7
866			MF . 125W 1206	M 7*
R67	A11368-39212	3.92 KOHM, 1%		N 7*
168				0.7*
169		3.92 KOHM, 1%		P 7*
70		3.92 KOHM, 1%		M 6*
71	A11368-10001	100 OHM 1% 080		0 4
172	A11368-10031	100.KOHM .1W		A 3
373	A11368-10041	1M OHM . 1W 1%		L 3*
374	A11368-60411	6.04KOHM .1W	17. 0003 17 h	A 11
175		OPEN		вэ
776		10K 1/10W 1%		A 3
777		10K 1/10W 1% 9		A 2
78		127 KOHM .25W		A 2
779		127 KOHM .25W		D 4
80	A11371-8211	820 OHM . 1W 5		B 7
181		182 OHM . 125W		83
RB2			% SMD 0805 T/R	
783	A10266-3902		5% CF T/R	
784		715K Ø.1W 1%		B 8
785			% SMD 0805 T/R	I 14*
186	A11371-3905	39 OHM 1W 5%		Н 13
787	A11371-1052		5% CHIP RES T/R	н 13
188		5.11KDHM .1W		
<u>90</u>		392 KOHM .1W		B 10
<u>191</u>		1.KOHM .1W 1%		B 7
<del>1</del> 92		499 OHM . 1W 1		B/
793		10K 1/10W 1%		C 7*
394		1.KOHM .1W 1%		A 7
795		10K 1/10W 1%		A 4*
798 <u></u>	A11368-30101	301 OHM . 1W 1		B 4
299		49.9KOHM .1W		N 13
100		39.2K 0.5W 1%		P 5*
R101		1.78K Ø.1W 1%		P 5*
R102		1.KOHM .1W 1%		P 5*
R103		11K 0.1W 1% 0		P 5*
R104	A11368-10021	10K 1/10W 1%	SMD 0805 1/H	<u> </u>
R1 <u>05</u>		10K 1/10W 1%		
R106		2.0K, 0.10W 1		P 5*
R107	A11368-23221	23.2KOHM .1W	1% 0805 T/R	
R108		24.9K 1/10W 1	% SMD 0805 T/R	P 6
R109	A11368-75011			06
R110	A11368-23201			<u>N 7</u>
R111	127681-1		06 THIN FILM T/R	0.6*
R112	A11368-10011	1.KOHM .1W 17	CHIP 0805	0.6
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		PARTS LIST	
DEE DEE	C. P. N.	DESCRIPTION	MAP LOC.
	L.F.N.	200K 0.1W 1% SMD CHIP 0805	A 8
R62		100 OHM 1% 0805 RES T/R	M 2*
R63		681KOHM .1W 1% 0805 T/R	В 7
R65		1.KOHM .1W 1% CHIP 0805	B 7
R66		3.92 KOHM, 1% MF .125W 1206	M 7*
R67			N 7*
R68	A11368-39212 A11368-39212		0.7*
R69	A11368-39212	3.92 KOHM, 1% MF .125W 1206	P 7*
R7Ø			M 6*
R71	A11368-10001	100 OHM 1% 0805 RES T/R	0.4
R72		100.KOHM .1W 1% CHIP 0805	A 3
R73		1M OHM .1W 1% CHIP 0805	L 3*
R74	A11368-60411	6.04KOHM .1W 1% 0805 T/R	A 11
R75		OPEN	в Э
R76		10K 1/10W 1% SMD 0805 T/R	A 3
R77		10K 1/10W 1% SMD 0805 T/R	A 2
R78		127 KOHM . 25W 1 MF T/R	A 2
R79		127 KOHM . 25W 1 MF T/R	
R80	A11371-8211	820 OHM . 1W 5% 0805 T/R	D 4
R81		182 OHM .125W 1% 1206 T/R	B 7
RB2		24.9K 1/10W 1% SMD 0805 T/R	83
R83	A10266-3902	39.0 OHM .5W 5% CF T/R	
R84		715K 0.1W 1% 0805 T/R	LB
R85	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	<u> </u>
R86	A11371-3905	39 OHM 1W 5% 2512 T/R	I 14*
R87	A11371-1052	1. MOHM .125W 5% CHIP RES T/R	<u>H 13</u>
R88		5.11KDHM .1W 1% 0805 T/R	<u>H 13</u>
R90		392 KOHM .1W 1% 0805 T/R	0 1*
R91	A11368-10011	1.KOHM .1W 1% CHIP 0805	B 10
R92		499 OHM .1W 1% 0805 T/R	87
R93		10K 1/10W 1% SMD 0805 T/R	D 1*
R94		1.KOHM .1W 1% CHIP 0805	C 7*
R95	A11368-10021	10K 1/10W 1% SMD 0805 T/R	<u>A 7</u>
R98		301 OHM .1W 1% 0805 T/R	A 4*
R99	A11368-49921	49,9KOHM .1W 1% CHIP 0805	84
R100	A11368-39224	39.2K 0.5W 1% 2010 T/R	N 13
R101	A11368-17811	1.78K 0.1W 1% 0805 SMD T/R	P 5*
R102		1.KOHM .1W 1% CHIP 0805	P 5*
R103		11K 0.1W 1% 0805 T/R	P 5*
R104		10K 1/10W 1% SMD 0805 T/R	P 5*
R105		10K 1/10W 1% SMD 0805 T/R	P 5*
R106	A11368-20011	2.0K, 0.10W 1% MF 0805	P 5*
R107	A11368-23221	23.2KOHM .1W 1% 0805 T/R	06*
R108	A11368-24921	24.9K 1/10W 1% SMD 0805 T/R	P 6
R109	A11368-75011		06
	A11368-23201		N 7
R110	127681-1	24.9K 0.5% 1206 THIN FILM T/R	0.6*
R111	A11368-10011		06
R112			
<u> </u>			
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RE FOR REF	ERENCE DNLY.		
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HALL NOT E	E REPRODUCED, CO	FIED, OR USED	



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R113		1.KOHM .1W 1% CHIP 0805	05
R114		2.0K, 0.10W 1% MF 0805	N 6
R115	127682-1	4.99K 0.1% 1206 THIN FILM T/R	P 5*
R116	127682-1	4.99K 0.1% 1206 THIN FILM T/R	P 5*
R117	127682-1	4.99K 0.1% 1206 THIN FILM T/R	0.6*
R118		4.87K OHM .10W 1% 0805	0.5*
R119		8.45K 0.1W 1% 0805 T/R	0.5*
R120		8.45K 0.1W 1% 0805 T/R	0.5*
R121		1.KOHM .1W 1% CHIP 0805	P 6*
R121		1.KOHM .1W 1% CHIP 0805	P 6*
R123		1.KOHM .1W 1% CHIP 0805	P 6*
		1.KOHM .1W 1% CHIP 0805	P 6*
R124			P 6*
R125		10K 1/10W 1% SMD 0805 T/R	· · · · · · · · · · · · · · · · · · ·
R126		10K 1/10W 1% SMD 0805 T/R	P 6*
R127		10K 1/10W 1% SMD 0805 T/R	P 6*
R128		100.KOHM .1W 1% CHIP 0805	
R129		RES, 1.1KOHM .1W 1% 0805	0.6*
R130		RES, 1.1KOHM .1W 1% 0805	0 5*
R131		2.0K, 0.10W 1% MF 0805	0.5*
R132		RES, 1.1KOHM .1W 1% 0805	0.5*
R133		RES, 1.1KOHM .1W 1% 0805	0.6*
R134	A11368-20011	2.0K, 0.10W 1% MF 0805	0.6*
R135	A11368-10001	100 OHM 1% 0805 RES T/R	05
R136	A11368-10001	100 DHM 1% 0805 RES T/R	05
R137	A11368-10001	100 OHM 1% 0805 RES T/R	06
R13B	A11368-10001	100 OHM 1% 0805 RES T/R	06
R139	A11368-33R21	33.2 OHM 1% 0805 RES T/R	N 7
R140	A11368-1R004	1 OHM 0.5W 1% 2010 T/R	N 7
R141	A11368-10711	1.07KOHM .1W 1% 0805 T/R	N 6
R142	126538-1	18 OHM 5W5% VERT THICK FILM	M 11
R143	126538-1	18 OHM 5W5% VERT THICK FILM	M 11
R144	A11371-1105	11 OHM 1W 5% 2512 T/R	M 12*
R145	A11371-1105	11 OHM 1W 5% 2512 T/R	M 13*
R146	A11371-1105	11 OHM 1W 5% 2512 T/R	N 13*
R147	A11371-1105	11 OHM 1W 5% 2512 T/R	N 12*
R14B	A11368-10013	1K 0.25W 1% 1210 T/R	M 12
R149	126538-1	18 OHM 5W5% VERT THICK FILM	N 13
R150	126538-1	18 OHM 5W5% VERT THICK FILM	N 13
R151		100.KOHM .1W 1% CHIP 0805	0 2*
R152		OPEN	N 12
R153		DPEN	N 12
R154	A11368-15031	150K 1/10W 1% SMD 0805 T/R	N 6
R154		100 OHM 1% 0805 RES T/R	N 6
		200K 0.1W 1% SMD CHIP 0805	N 6
R156			N B
R157	A11368-20021		N 6
R158		1.27MOHM .1W 1% 0805 T/R	N B
R159	A11368-51111	5.11K 1/10W 1% SMD 0805 T/R	<u> </u>
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		PARTS_LIST	
REF DES		DESCRIPTION	MAP LOC. M 6
R160		10.KOHM TOP ADJUST TRIMMER T/R	M_B M_7*
R161	A11368-20011	2.0K, 0.10W 1% MF 0805	M 7*
R162	A11368-30111	3.01K 1/10W 1% SMD 0805 T/R	M 7*
R163	A11368-47511	4.75KOHM 0.10W 1% CHIP 0805	<u> </u>
R164	A11368-56211	5.62KOHM .1W 1% 0805 T/R	<u> </u>
R165	A11368-10011	1.KOHM .1W 1% CHIP 0805	M 7*
R166	A11368-10011	1.KOHM .1W 1% CHIP 0805	<u> </u>
R167		1.KOHM .1W 1% CHIP 0805	N 6*
R168	A11368-44221	44.2K 0.1W 1% 0805 T/R	N 6*
R169		2.61K 0.1W 1% 0805 T/R	N 5
R170		100KOHM 4MM CERMET TRIM SMT TR	N 6*
R171	A11368-10031	100.KOHM .1W 1% CHIP 0805	N 6*
R172	A11368-10001	100 DHM 1% 0805 RES T/R	N 6*
R173	A11368-10001	100 OHM 1% 0805 RES T/R	0 4*
R174		105KOHM . 1W 1% 0805 T/R	0 4*
R175	A11368-19111	1.91KOHM .1W 1% 0805 T/R	0 5*
R176	A11368-19111	1.91KOHM .1W 1% 0805 T/R	0 5*
R177	A11368-10031	100.KOHM .1W 1% CHIP 0805	0 5
R178		1 KOHM 4MM CERMET TRIM SMT T/R	05
R179	A11368-13011	1.3KOHM .1W 1% 0805 T/R	0.5*
R180	A11368-25511	2.55KOHM .1W 1% 0805 T/R	0.5*
R181	A11368-15011	1.5K 1/10W 1% SMD 0805 T/R	0.5*
R182	A11368-16221	16.2KOHM .1W 1% 0805 T/R 2.21KOHM .1W 1% CHIP 0805	0.5*
R183	A11368-22111	8.25KOHM .1W 1% CHIP 0805	0 5*
R184	A11368-82511	4.22KOHM .1W 1% 0805 T/R	0 5*
R185	A11368-42211	2.55KOHM .1W 1% 0805 T/R	0 5*
R186		6.04KOHM .1W 1% 0805 T/R	0 5*
R187		10K 1/10W 1% SMD 0805 T/R	P 6*
R188	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 6*
R189 R190	A11371-1842	180.KOHM .125W 5% CHIP RES T/R	N 2*
R191		392 KOHM .1W 1% 0805 T/R	N 2*
R192		10K 1/10W 1% SMD 0805 T/R	N 2
R193		10K 1/10W 1% SMD 0805 T/R	02
R194	A11368-20021	20.KOHM .1W 1% CHIP 0805	P 5*
R195	127681-1	24.9K 0.5% 1206 THIN FILM T/R	0.6*
R196	127681-1	24.9K Ø.5% 1206 THIN FILM T/R	0 6*
R197	127681-1	24.9K 0.5% 1206 THIN FILM T/R	D 6*
R198		715K 0.1W 1% 0805 T/R	N 12
R199		100.KOHM .1W 1% CHIP 0805	M 5*
R200	A11368-39224	39.2K 0.5W 1% 2010 T/R	0 13
R201	A11368-17811	1.78K 0.1W 1% 0805 SMD T/R	P 3*
R202	A11368-10011	1.KOHM .1W 1% CHIP 0805	P 3*
R203	A11368-11021	11K 0.1W 1% 0805 T/R	<u>P3*</u>
R204	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 3*
R205	A11368-10021		P 3*
R206	A11368-20011	2.0K, 0.10W 1% MF 0805	P 3*
			L
NTROLLED	UNCONTROLLI RWISE MARKED IN R COPY. COPIES OF T SSOCIATED ELECTRO	ED INK BY CM AS A INACTIVE	
RE FOR REF	ERENCE ONLY.		1.0
PROPERTY D	INGS AND SPECIFIC F CROWN INTERNATI	DNAL, INC. AND $\Lambda$ 126218-	13
	BE REPRODUCED, CD IS FOR THE MANUFA		T 28 OF 48
	US OR DEVICES WIT	SCALE NONE PROJ NO. MD425DØ SHEE	1 20 05 70



	PARTS LIST	MAP LDC.
REF DES	C.P.N. DESCRIPTION	0.3*
R207	A11368-23221 23.2KOHM .1W 1% 0805 T/R	P 4
R208	A11368-24921 24.9K 1/10W 1% SMD 0805 T/R	O 4
R209	A11368-75011 7.50K .10W 1% CHIP 0805	0.7
R210	A11368-23201 2320HM . 1W 1% 0805 T/R	0.4*
R211	127681-1 24.9K 0.5% 1206 THIN FILM T/R	0.4
R212	A11368-10011 1.KOHM .1W 1% CHIP 0805	0.4
R213	A11368-10011 1.KOHM .1W 1% CHIP 0805	N 5
R214	A11368-20011 2.0K. 0.10W 1% MF 0805	P 3*
R215	127682-1 4.99K 0.1% 1206 THIN FILM T/R	P 3*
R216	127682-1 4.99K Ø.1% 1206 THIN FILM T/R	0.4*
R217	127682-1 4.99K 0.1% 1206 THIN FILM T/R	O 4*
R218	A11368-48711 4.87K OHM .10W 1% 0805	D_4*
R219	A11368-84511 8.45K 0.1W 1% 0805 T/R	0.3*
R220	A11368-84511 8.45K 0.1W 1% 0805 T/R	P 4*
R221	A11368-10011 1.KOHM .1W 1% CHIP 0805	P 4*
R222	A11368-10011 1.KOHM .1W 1% CHIP 0805	P_4*
R223	A11368-10011 1.KOHM .1W 1% CHIP 0805	P 4*
R224	A11368-10011 1.KOHM .1W 1% CHIP 0805	P 4*
R225	A11368-10021 10K 1/10W 1% SMD 0805 T/R	P 4*
R226	A11368-10021 10K 1/10W 1% SMD 0805 T/R	P 4*
R227	A1136B-10021 10K 1/10W 1% SMD 0805 T/R	0.4*
R229	A11368-11011 RES, 1.1KOHM .1W 1% 0805	0.4*
R230	A11368-11011 RES, 1.1KOHM .1W 1% 0805	0.4*
R231	A11368-20011 2.0K, 0.10W 1% MF 0805	0.4*
R232	A1136B-11011 RES, 1.1KOHM .1W 1% 0805	0.3*
R233	A11368-11011 RES, 1.1KOHM .1W 1% 0805	0.3*
R234	A11368-20011 2.0K. 0.10W 1% MF 0805	0 4
R235	A11368-10001 100 OHM 1% 0805 RES T/R	0 4
R236	A11368-10001 100 OHM 1% 0805 RES T/R	03
R237	A11368-10001 100 DHM 1% 0805 RES T/R	03
R238	A11368-10001 100 DHM 1% 0805 RES T/R	0 7
R239	A11368-33R21 33.2 OHM 1% 0805 RES T/R	07
R240	A11368-1R004 1 OHM 0.5W 1% 2010 T/R A11368-10711 1.07KOHM .1W 1% 0805 T/R	0.6
R241		P 11
R242	THICK FILM	P 11
R243	LOLD THE THE OF A T (B	D 12*
R244		0 13*
R245	THE PROPERTY AND A TABLE	P 13*
R246		P 12*
R247	A11371-1105 11 DHM 1W 5% 2512 T/R A11368-10013 1K 0.25W 1% 1210 T/R	0 12
R24B		D 13
R249	THICK FILM	0 13
R250	126538-1 18 UHM 5W5% VERT THICK TIEM	0 12
R252	OPEN	D 12
R253	A11368-15031 150K 1/10W 1% SMD 0805 T/R	06
R254		06
R255	A11368-10001 100 OHM 1% 0805 RES 17R	
NCLUDING	ASSOCIATED ELECTRONIC REPRODUCTIONS	
RE FOR RE	EFERENCE ONLY.	
	WINDS AND SPELIFICATIONAL INC. AND A	26218-13
	ASIS FOR THE MANUFACTURE OR SALE SCALE NONE PROJ NO. N	MD425D0 SHEET 29 OF 48



		P	ARTS LIST					
REF DES	C. P. N.	DESCRIPTION	<u>AIII3 E131</u>			1	MAP LOC.	
R256		200K 0.1W 1% 5	MD CHIP 08	05	<b>_</b> w		06	
R257		20.KOHM .1W 12			1.30707		06	
R258	A11368-12741	1.27 MOHM .1W 1	% 0805 T/R				0.6	
R259		5.11K 1/10W 1%					07	-
R260		10.KOHM TOP AI					P 6	
R261		2.0K, 0.10W 17					P 7*	
R262		3.01K 1/10W 1%		T/R			0 7*	
R263		4.75KOHM 0.10V					0.7*	
R264		5.62KOHM .1W 1					P 7*	
R265		1.KOHM .1W 1%					P 7*	
R265		1.KOHM .1W 1%					0.7*	
R267		1.KOHM .1W 1%					P 7*	_
		44.2K Ø.1W 1%					N 4*	
R268		2.61K Ø.1W 1%				-	N 4*	
R269		100KOHM 4MM CE		SMT TR			N 3	
R270	C 9779-7	100.KOHM .1W 1					N 4*	
R271		100 DHM 1% 080		<u> </u>	··		N 4*	
R272		100 OHM 1% 080					N 4*	
R273		105KOHM . 1W 17					0 3*	
R274							0.3*	
R275		1.91KOHM .1W 1					03*	
R276		1.91KOHM .1W 1					03*	
R277		100.KOHM .1W 1					03	
R278	C 9777-1	1 KOHM 4MM CEF					03	
R279		1,3KOHM .1W 17		····			<u>0 3</u> *	
R280		2.55KOHM .1W					03*	
R281		1.5K 1/10W 1%					0 3*	
R282		16.2KOHM .1W				<u> </u>	0.3*	
R283		2.21KDHM .1W					<u> </u>	
R284		B.25KOHM .1W					0 3*	
R285		4.22KOHM .1W					03*	
R286		2.55KOHM .1W					03*	
R2B7		6.04KOHM .1W					P 4*	
R288		10K 1/10W 1% 9					P_4*	
R289		10K 1/10W 1% 9					0 1	
R290		49.9KOHM .1W					0 1*	
R291		10K 1/10W 1% 9		· H			M 1	
R292	A11371-6814	680 OHM . 5W 5		·			0 1*	
R293		10K 1/10W 1%					 P 3*	
R294		20.KOHM .1W 1					<u> </u>	
R295	127681-1	24.9K 0.5% 12				ł	0 4*	
R296	127681-1	24.9K 0.5% 12				<u> </u>	0 4*	
R297	127681-1	24.9K Ø.5% 12		M 1/H	······································			
R298	A11368-71531	715K Ø.1W 1%					D 12	
R299	A11368-10031	100.KOHM .1W					<u>N 3*</u>	
R300	A11368-49911	4.99K 1/10W 1.	% SMD 0805	1/R			<u> </u>	
R301		OPEN					<u> </u>	
R302	A11368-49911	4.99K 1/10W 1	% SMD 0805	1/R			L 3*	
L						<del>_</del>		
						<u></u>		
	1							
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ROPERTY OF	NGS AND SPECIFICA CROWN INTERNATION REPRODUCED, COP	NAL, INC. AND FIED, DR USED	SIZE DWG NO.	1	2621	8 - 1	13	F
5 THE BASI	S FOR THE MANUFAC	OUT PERMISSION.	SCALE NONE	PROJ ND.	MD425D0	SHEET	30 OF 48	



		PARTS LIST	MAP LOC.
REF DES	C.P.N.	DESCRIPTION	MAP LUL. M 5*
R303		619 OHM .125W 1% CHIP RES T/R	M 5*
R304	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	M 5*
R305	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	
R307	A11368-49921	49.9KOHM .1W 1% CHIP 0805	0 1*
R308		10K 1/10W 1% SMD 0805 T/R	M 4*
R309	A11368-75023	75K OHM . 25W 1% 1210	M 4*
R31Ø	A11368-13011	1.3KOHM .1W 1% 0805 T/R	M 4*
R311		33.2KOHM 0.25W 1% 1210 T/R	M 4*
R312		82.5K 0.10W 1%CHIP 0805	
R313	A11368-39231	392 KOHM .1W 1% 0805 T/R	M 4
R314	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	M 3*
R315		75K DHM . 25W 1% 1210	M 3*
R316	A11368-13011	1.3KOHM .1W 1% 0805 T/R	
R317	A11371-3041	300.KOHM .1W 5% CHIP 0805	
R318		30.1K, 0.10W 1% MF 0805	
R319		6.34K 0.10W 1% CHIP 0805	M 3*
R320	A11368-75023	75K OHM .25W 1% 1210	M 4*
R321		10K 1/10W 1% SMD 0805 T/R	
R322		11K 0.1W 1% 0805 T/R	
R323		200K 0.1W 1% SMD CHIP 0805	
R324	A1136B-56211	5.62KOHM .1W 1% 0805 T/R	<u>I 13</u>
R325	126564-1	300HM 10W 5% VERT THICK FILM	I 14
R326	A11368-10021	10K 1/10W 1% SMD 0805 T/R	<u>A 4</u>
R327	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 3
R328		OPEN	мв
R329	A11368-10021	10K 1/10W 1% SMD 0805 T/R	<u> </u>
R330	A11368-20031	200K 0.1W 1% 5MD CHIP 0805	LB
R331	A11368-84511	8.45K 0.1W 1% 0805 T/R	LB
R332	A11368-56211	5.62KOHM .1W 1% 0805 T/R	I 13
R333	A11371-3905	39 OHM 1W 5% 2512 T/R	I 14*
R334	A11371-3905	39 DHM 1W 5% 2512 T/R	I 14*
R335	A11368-20031	200K 0.1W 1% SMD CHIP 0805	L B
R336	A11368-19621	19.6K DHM .1W 1% 0805 T/R	LB
R337		10K 1/10W 1% SMD 0805 T/R	LB
R338		7.50K .10W 1% CHIP 0805	B 8
R339		6.04KDHM .1W 1% 0805 T/R	L 11*
R340		100.KOHM .1W 1% CHIP 0805	M 4*
R341		1.KOHM .1W 1% CHIP 0805	N 4*
R342		20.KOHM .1W 1% CHIP 0805	N 4*
R343		619.0HM 1/10W 1% 5MD 0805 T/R	N 2*
R344		1M DHM .1W 1% CHIP 0805	N 2*
R345	A11368-90921		N 2*
R345 R346	A11371-5141	510.KOHM .1W 5% CHIP 0805	N 2*
		332K 0.1W 1% 0805 T/R	D 2*
R347	A11368-33231		P 2
R34B		140KOHM .1W 1% 0805 T/R	P 2
R349	A11368-14031		P 2
R350	A11308-22111	2.21NUHWI, IW 17 CHAI 5055	-
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HESE DRAWI	NGS AND SPECIFIC		13
HALL NOT E	RE REPRODUCED, CO	PIED, OR USED	
S THE BAS1	BE REPRODUCED. CO IS FOR THE MANUFA JS OR DEVICES WIT	CTURE OR SALE	T 31 OF 48



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R351		140KOHM .1W 1% 0805 T/R	P 2
R352	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	К 9
R353	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	КЭ
R354	A11368-10011	1.KOHM .1W 1% CHIP 0805	КЭ
R355	A11371-3005	30 DHM 1W 5% 2512 T/R	К В*
R355	A11371-3005	30 OHM 1W 5% 2512 T/R	К В*
R355	A11371-1104	RES 11.0 OHM .5W SMT	J 9
		30 OHM 1W 5% 2512 T/R	К 9*
R358	A11371-3005	30 OHM 1W 5% 2512 T/R	К 9*
R359	A11371-3005		<u> </u>
R360	A11371-1104	RES 11.0 OHM .5W SMT	м в
R361	126901-1	RES, .02 DHM 5W 3% VERTICAL	
R362	126901-1	RES, .02 DHM 5W 3% VERTICAL	N B
R363	126564-1	300HM 10W 5% VERT THICK FILM	N 10
R364	126564-1	300HM 10W 5% VERT THICK FILM	<u>N9</u>
R365	A11371-1104	RES 11.0 OHM .5W SMT	J 12
R366	A11371-3005	30 OHM 1W 5% 2512 T/R	K 12*
R367	A11371-3005	30 DHM 1W 5% 2512 T/R	К 12*
R368	A11371-1104	RES 11.0 DHM .5W SMT	J 10
R369	A11371-3005	30 OHM 1W 5% 2512 T/R	K 11*
R37Ø	A11371-3005	30 OHM 1W 5% 2512 T/R	K 11*
R371	A11368-10011	1.KOHM .1W 1% CHIP 0805	K 11
R372	A11371-1104	RES 11.0 DHM .5W SMT	K 12
R373	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	K 11
R374	A11368-75RØ1	75.0HM 1/10W 1% SMD 0805 T/R	K 11
R375	125539-1	1 OHM 0.25W 5% 1206	Н 9*
R376	125539-1	1 OHM 0.25W 5% 1206	H 7*
R377	125539-1	1 DHM Ø.25W 5% 1206	H 12*
R378	125539-1	1 OHM 0.25W 5% 1206	H 10*
R379	125539-1	1 OHM 0.25W 5% 1206	н э*
R380	125539-1	1 OHM 0.25W 5% 1206	H 12*
R381	125539-1	1 OHM 0.25W 5% 1206	Н В*
	125539~1	1 DHM 0.25W 5% 1206	H 11*
R382	126901-1	RES, .02 OHM 5W 3% VERTICAL	мв
R383		RES, .02 OHM 5W 3% VERTICAL	N B
R384	126901-1		N 6*
R385		1M OHM .1W 1% CHIP 0805	N 6*
R386		100.KOHM .1W 1% CHIP 0805	
R3B7	A11371-1104	RES 11.0 OHM .5W SMT	
R388		OPEN	P 5*
R389		75.0HM 1/10W 1% SMD 0805 T/R	N 6*
R390		75.0HM 1/10W 1% SMD 0805 T/R	N 6*
R391		75.0HM 1/10W 1% 5MD 0805 T/R	N 5*
R392	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	N 5*
R393	A11371-1104	RES 11.0 OHM .5W SMT	M 7
R394	A11371-1104	RES 11.0 DHM .5W SMT	M 7
R395	A11368-10021	10K 1/10W 1% SMD 0805 T/R	N 6*
R396	A11368-44221	44.2K 0.1W 1% 0805 T/R	P 5*
R397	A11368-10021	10K 1/10W 1% 5MD 0805 T/R	P 6*
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NTROLLED C CLUDING AS	OPY, COPIES OF TH	D INK BY CM AS A	- and a series
HESE DRAWI	NGS AND SPECIFICA CROWN INTERNATIC E REPRODUCED, COF	NAL, INC, AND	13
	S FOR THE MANUFAC		

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
R398		2.80KOHM .10W 1% MF 0805	<u>P 5*</u>
R399		23.2KOHM .1W 1% 0805 T/R	0.5*
R400	A11368-10031	100.KOHM .1W 1% CHIP 0805	0 1*
R401	A11371-6814	680 OHM .5W 5% 2010 T/R	0 1
R403	A11368-10021	10K 1/10W 1% SMD 0805 T/R	с в
R404	A11368-20021	20.KOHM .1W 1% CHIP 0805	A 7
R405	A11368-10031	100.KOHM .1W 1% CHIP 0805	A B
R407	A11368-15013	1.5KOHM .25W 1% 1210 T/R	К 1
R4ØB	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 4*
R409		OPEN	<u> </u>
R410	A11368-49901	499 OHM .1W 1% 0805 T/R	N 2
R411	A11368-33223	33.2KOHM 0.25W 1% 1210 T/R	M 2*
R412	A11368-82521	82.5K 0.10W 1%CHIP 0805	M 2*
R414	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	M 2
R415		OPEN	P 4*
R417	A11371-3041	300.KOHM .1W 5% CHIP 0805	м з*
R41B		30.1K, 0.10W 1% MF 0805	N 3*
R419		10K 1/10W 1% SMD 0805 T/R	A 8
R420		2.0K, 0.10W 1% MF 0805	88
R422		0PEN	P 4*
R424	A11368-22621	22.6K OHM .1W 1% 0805 T/R	D 4
		49.9KDHM .1W 1% CHIP 0805	A 4
R425	A11300-43321	DPEN	A 10
R426		0PEN	B 10
R427	·		B 10
R428			B 10
R429			B 11
R430			B 11
R431			B 11
R432			
R433		OPEN	
R434		10K 1/10W 1% SMD 0805 T/R	A 7
R435		2.0K, 0.10W 1% MF 0805	A 7
R436		499 OHM .1W 1% 0805 T/R	
R437		100 OHM 1% 0805 RES T/R	<u> </u>
R438		100 OHM 1% 0805 RES T/R	D 3*
R439		100 DHM 1% 0805 RES T/R	<u> </u>
R440		100.KOHM .1W 1% CHIP 0805	<u>M 3*</u>
R441		1.KOHM .1W 1% CHIP 0805	N 3*
R442	A11368-20021	20.KDHM .1W 1% CHIP 0805	N 3*
R443		1M OHM .1W 1% CHIP 0805	N 2*
R444	A11368-61901	619.0HM 1/10W 1% SMD 0805 T/R	N 2*
R445		90.9K, 0.10W 1% MF 0805	N 2*
R446	A11371-5141	510.KOHM .1W 5% CHIP 0805	N 2*
R447	A11368-33231	332K 0.1W 1% 0805 T/R	0 2*
R448	A11368-10021	10K 1/10W 1% SMD 0805 T/R	C 7
R449	A11368-42211	4.22KDHM .1W 1% 0805 T/R	СВ
R450	A11368-10011	1.KOHM .1W 1% CHIP 0805	СВ
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NTROLLED ( NCLUDING AS	UNCONTROLLE WISE MARKED IN RE COPY. COPIES OF TO SSOCIATED ELECTRO FRENCE ONLY.		•
HESE DRAWI	NGS AND SPECIFICA	TIONS ARE THE SIZE DWG NO. 100010	1 🔿 RE
ROPERTY OF	EROWN INTERNATIONE REPRODUCED. COP	$\Delta A = 2 \Delta B $	13
S THE BASI	S FOR THE MANUFAC	TURE OR SALE	
E APPARATE	IS OR DEVICES WITH	OUT PERMISSION. SCALE NONE PROJ NO. MD425DØ SHEE	



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R451	A10266-3041	300.KOHM .25W 5% CF T/R	A 2
R452	A11368-75RØ1	75.0HM 1/10W 1% SMD 0805 T/R	К 5
R453	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	К 5
R454	A11368-10011	1.KOHM .1W 1% CHIP 0805	К 5
R455	A11371-3005	30 OHM 1W 5% 2512 T/R	K 6*
R456	A11371-3005	30 OHM 1W 5% 2512 T/R	K 6*
R457	A11371-1104	RES 11.0 OHM . 5W SMT	J 4
R458	A11371-3005	30 OHM 1W 5% 2512 T/R	K 5*
R459	A11371-3005	30 OHM 1W 5% 2512 T/R	<u>K 5*</u>
R460	A11371-1104	RES 11.0 DHM .5W SMT	J 6
R461	126901-1	RES, .02 OHM 5W 3% VERTICAL	08
R462	126901-1	RES, .02 OHM 5W 3% VERTICAL	P 8
R463	126564-1	300HM 10W 5% VERT THICK FILM	0 10
R464	126564-1	300HM 10W 5% VERT THICK FILM	0 9
R465	A11371-1104	RES 11.0 OHM .5W SMT	J 2
R466	A11371-3005	30 OHM 1W 5% 2512 T/R	К 2*
R467	A11371-3005	30 OHM 1W 5% 2512 T/R	К 2*
R468	A11371-1104	RES 11.0 OHM .5W SMT	J 3
R469	A11371-3005	30 OHM 1W 5% 2512 T/R	К 3*
R470	A11371-3005	30 OHM 1W 5% 2512 T/R	к э*
R471	A11368-10011	1.KOHM .1W 1% CHIP 0805	К 2
R472	A11371-1104	RES 11.0 DHM . 5W SMT	К 1
R473	A11368-75RØ1	75.0HM 1/10W 1% 5MD 0805 T/R	КЗ
R474	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	КЗ
R475	125539-1	1 OHM 0.25W 5% 1206	<u>H 5*</u>
R476	125539-1	1 OHM 0.25W 5% 1206	<u> </u>
R477	125539-1	1 DHM 0.25W 5% 1206	<u>H 2*</u>
R478	125539-1	1 DHM 0.25W 5% 1206	Н 3*
R479	125539-1	1 OHM 0.25W 5% 1206	<u> </u>
R480	125539-1	1 OHM 0.25W 5% 1206	H 2*
R4B1	125539-1	1 OHM 0.25W 5% 1206	H 5*
R482	125539-1	1 OHM 0.25W 5% 1206	<u>н з*</u>
R483	126901-1	RES, .02 DHM 5W 3% VERTICAL	08
R484	126901-1	RES, .02 OHM 5W 3% VERTICAL	<u> </u>
R485	A11368-10041	1M OHM .1W 1% CHIP 0805	N 4*
R486	A11368-10031	100.KOHM .1W 1% CHIP 0805	N 4*
R4B7	A10266-3041	300.KDHM .25W 5% CF T/R	B 6
R488	A11368-17811	1.78K 0.1W 1% 0805 SMD T/R	89
R489	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	N 4*
R490	A11368-75RØ1	75.0HM 1/10W 1% SMD 0805 T/R	N 3*
R491	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	N 4*
R492	A11368-75R01		N 4*
R493	A11371-1104	RES 11.0 OHM .5W SMT	M 7
R494	A11371-1104	RES 11.0 OHM .5W SMT	M 7
R495	A11368-10021	10K 1/10W 1% SMD 0805 T/R	N 4*
R496	A11368-44221	44.2K 0.1W 1% 0805 T/R	P 3*
R497	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 4*
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		PARTS LIST	-
EF DES	C.P.N.	DESCRIPTION	MAP LOC.
7498	A11368-28011	2.80KOHM .10W 1% MF 0805	<u>P 3*</u>
3499	A11368-23221	23.2KOHM .1W 1% 0805 T/R	0 4*
3500	A11368-49931	499KOHM .1W 1% 0805 T/R	<u> </u>
7501	A11371-0R02	0. OHM .125W 5% CHIP RES T/R	E 7
7502	A10266-5141	510. KOHM 25W 5% CF T/R	D 2
7503	A10266-5141	510. KOHM . 25W 5% CF T/R	D 2
7504		OPEN	D 3
7505	A10266-2751	2.7 MOHM .25W 5% CF T/R	85
R506	A10266-2441	240. KOHM . 25W 5% CF T/R	D 14
R507	A10266-2441	240. KOHM . 25W 5% CF T/R	<u>C 14</u>
R508	A11371-3905	39 DHM 1W 5% 2512 T/R	J 14*
R509	A11371-3905	39 OHM 1W 5% 2512 T/R	J_14*
R510	A11368-20011	2.0K, 0.10W 1% MF 0805	D 4
R511	A11368-78711		D 4
R512	A11371-1222	1.2KOHM 1/8W 5% SMD 1206 T/R	D 4
R513	A11368-20021	20.KOHM .1W 1% CHIP 0805	D 4
R514	A11371-1331	13KOHM .1W 5% 0805 T/R	D 4
R515	A11368-30111	3.01K 1/10W 1% SMD 0805 T/R	D 4
R516	A11366 30111	OPEN	D 4*
R517	A11368-20021	20.KOHM .1W 1% CHIP 0805	M 4
R518	A11368-30111	3.01K 1/10W 1% SMD 0805 T/R	M 4
		20.KOHM .1W 1% CHIP 0805	М б
R519 R522		20.KOHM .1W 1% CHIP 0805	N 5
		20.KOHM .1W 1% CHIP 0805	A 9*
R523	A11308-20021	20.KOHM .1W 1% CHIP 0805	A 9*
R524		274K . 125W 1% CHIP RES T/R	A 9*
<u>R525</u>	A11300-27432	3.92 KOHM, 1% MF .125W 1206	A 9
R526	A11300-35212	1.78K 0.1W 1% 0805 SMD T/R	в 9*
R527		1.KOHM .1W 1% CHIP 0805	89
R528		1.KOHM .1W 1% CHIP 0805	B 9*
R529	A11368-10011	3.01K 1/10W 1% SMD 0805 T/R	8 9*
R530		30.1K, 0.10W 1% MF 0805	C 8*
R531		100 OHM 1% 0805 RES T/R	A 3
R532	A11368-10001	OPEN	A 3*
R533	444000 40031	49.9KOHM .1W 1% CHIP 0805	A 3
R534	A11368-49921	20.KOHM .1W 1% CHIP 0805	M 5
R535	A11368-20021	ZU. KUHM . TW 17 CHIF BODS	M 5*
R536		5.62KOHM .1W 1% 0805 T/R	M 5*
R537		5.62KOHM .1W 1% 0805 T/R	M 5
R538	A11368-20021	20. KOHM . 1W 1% CHIP 0805	D B
R539	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	D_B*
R540	A11368-15021	15.0K. 0.10W 1% MF 0805	DB
R541	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D_B*
R542		OPEN	
R543	A11368-20031		
R544	A1136B-56211		<u> </u>
R545	A11368-12121		
R546	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	
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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R547	A11371-0R02	Ø. OHM .125W 5% CHIP RES T/R	E 7
R548	A11371-0R02	Ø. OHM .125W 5% CHIP RES T/R	E 9
R549	A11371-0R02	Ø. OHM . 125W 5% CHIP RES T/R	E 8
R550		10K 1/10W 1% SMD 0805 T/R	M 2*
R557	A11368-20021		N 1
		392 KOHM .1W 1% 0805 T/R	N 1*
R558 R559		499 OHM .125W 1% 1206 T/R	N 1*
	A11300 43302	0PEN	N 1*
R560	A11268-20021	20.KOHM .1W 1% CHIP 0805	L 1*
R561	A11388-20021 A11371-2724	2.7 KOHM .5W 5% 2010 T/R	L 1
R562		10K 1/10W 1% SMD 0805 T/R	0.1*
R563	ATT308-10021		N 1*
R564			N 2*
R565		20,KOHM .1W 1% CHIP 0805	L 1*
R566		20.KOHM .1W 1% CHIP 0805	L 1
R567	A11371-2724	2.7 KDHM .5W 5% 2010 T/R	
R657		20.KOHM .1W 1% CHIP 0805	N 1
R658		392 KOHM .1W 1% 0805 T/R	N 1*
R659	A11368-49902	499 OHM .125W 1% 1206 T/R	N 1*
R660		OPEN	N 1*
R661		20.KOHM .1W 1% CHIP 0805	<u>N 1*</u>
R662	A11371-2724	2.7 KOHM .5W 5% 2010 T/R	N 1
R663	A11368-10021	10K 1/10W 1% SMD 0805 T/R	<u>N 1*</u>
R664		OPEN	0 1*
R665		20.KDHM .1W 1% CHIP 0805	0 2*
R666	A11368-20021	20.KOHM .1W 1% CHIP 0805	D 1*
R667	A11371-2724	2.7 KOHM .5W 5% 2010 T/R	0 1
R700	A11368-15013	1.5KDHM .25W 1% 1210 T/R	B 9
R7Ø1	A11368-10001	100 OHM 1% 0805 RES T/R	B 8*
R702	A11371-4741	470KOHM .1W 5% CHIP 0805	B 8*
R703	A11368-12121	12.1KOHM .1W 1% 0805 T/R	B 8
R7Ø4	A11368-20031	200K 0.1W 1% SMD CHIP 0805	B 8*
R705	A11371-2023	2K OHM .25W 5% 1210 T/R	89
R706	A11371-2023	2K OHM .25W 5% 1210 T/R	В 9
R707	A11371-0R04	0 DHM 1/2W 5% 2010 T/R	JB
R708	A11371-0R04	0 OHM 1/2W 5% 2010 T/R	J 9
R709	A11368-10R03	10 OHM 0.25W 1% 1210 T/R	L 6
R710	A11368-10R03	10 DHM 0.25W 1% 1210 T/R	L 6
R711	128184-1	NTC, ZØK #8 PRI SEC ISO	E 13
R712	A11368-10021	10K 1/10W 1% SMD 0805 T/R	E 12
R713	127517-1	PTC, 20K J 10%	C 13
R714		4.87K OHM .10W 1% 0805	C 12
R715		221 KOHM .1W 1% 0805 T/R	D 3*
R716	A11368-36521	36.5K OHM 0.1W 1% 0805 T/R	D 3*
R717	A11368-35712		B 6
R71B	A11371-0804	Ø DHM 1/2W 5% 2010 T/R	J 12
R719	A11371-0R04	Ø DHM 1/2W 5% 2010 T/R	J 11
R720	A11371-0104	RES 11.0 DHM .5W SMT	J 10
R720	A11371-1104	RES 11.0 DHM .5W SMT	J 12
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APPARATU	S OR DEVICES WITH	OUT PERMISSION. SCALE NONE PROJ NO. MD425DØ SHEET	55 GP 46



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R722	A11371-1104	RES 11.0 OHM .5W SMT	<u> </u>
R723	A11371-0R01	0 OHM 0.1W CHIP 0805	
R724		OPEN	
R730	A1136B-10031	100.KOHM .1W 1% CHIP 0805	0.5*
R731	A11368-22111	2.21KOHM .1W 1% CHIP 0805	<u>M 4</u>
R732	A11368-10041	1M OHM .1W 1% CHIP 0805	<u>N5</u>
R798		10K 1/10W 1% SMD 0805 T/R	<u> </u>
R799	A11368-26721	26.7KOHM .1W 1% 0805 T/R	P 5*
R800	A11368-10021	10K 1/10W 1% SMD 0805 T/R	В 3
R801	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	<u> </u>
R802	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	B 3
R805	A11368-10021	10K 1/10W 1% SMD 0805 T/R	C 7
R807	A11371-0R04	0 OHM 1/2W 5% 2010 T/R	J 6
R808	A11371-0R04	Ø DHM 1/2W 5% 2010 T/R	J 5
R809	A11371-1104	RES 11.0 DHM .5W SMT	J 4
RB10	A11371-1104	RES 11.0 OHM .5W SMT	JБ
R811	A11371-1104	RES 11.0 OHM . 5W SMT	J 1
RB12	A11371-1104	RES 11.0 OHM .5W SMT	J 3
RB13	A11371-0R04	Ø DHM 1/2W 5% 2010 T/R	J 2
R814	A11371-0R04	Ø OHM 1/2W 5% 2010 T/R	J 3
R830		100.KOHM .1W 1% CHIP 0805	03*
R831		2.21KOHM .1W 1% CHIP 0805	M 2
		1M OHM .1W 1% CHIP 0805	N 4
RB32		10K 1/10W 1% SMD 0805 T/R	P 3*
R889	A11368-26721		P 3*
R899		NTC 20K J 10% #8 RING	К 11
RT1	127518-3	NTC 20K J 10% #8 RING	КЗ
RT2	127518-3	XFMR, 400V/150V CT	D 11
T1	126012-1	XFMR, 125KHZ 15V GATE DRIVE	E 7
T2	127522-2	XEMR, 125KHZ 15V GATE DRIVE	E 9
ТЗ	127522-2	XFMR, CURRENT SENSE	 C 9
T4	126072-1		 
T4X	101128-1	WIRE, K2 CURRENT SENSE	N 11
T100	H43628-9	XFMR D350 100:1 CURRENT SENSE	N 11
T100X	10112B-1	WIRE, K2 CURRENT SENSE	К 7
T101	126863-1	XFMR, BCA GATE SUPPLY	<u>к 7</u>
T101X	10112B-1	WIRE, K2 CURRENT SENSE	P 11
T200	H43628-9	XFMR D350 100:1 CURRENT SENSE	К 7
T201	126863-1	XFMR, BCA GATE SUPPLY	<u> </u>
TP1	127064-1	TEST POINT. SMT 1206	
TP2	127064-1	TEST POINT, SMT 1206	
трз	127064-1	TEST POINT, SMT 1205	
TP5	127064-1	TEST POINT, SMT 1206	<u>E 3</u>
TP6	127064-1	TEST POINT, SMT 1206	A 4
TP7	127064-1	TEST POINT, SMT 1206	D 7
ТРВ	127064-1	TEST POINT, SMT 1206	<u>E 4</u>
TP9	127064-1	TEST POINT, SMT 1206	СВ
TP10	127064-1	TEST POINT, SMT 1206	N B
TP11	127064-1	TEST POINT, SMT 1206	СВ
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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
TP12	127064-1	TEST POINT, SMT 1206	C 7
TP13	127064-1	TEST POINT, SMT 1206	D 8
TP14	127064-1	TEST POINT, 5MT 1206	EB
TP15	127064-1	TEST POINT, SMT 1206	E 7
TP16	127064-1	TEST POINT, SMT 1206	D 9
TP17	127064-1	TEST POINT, SMT 1206	E 8
TP27	127064-1	TEST POINT, SMT 1206	E 7
TP2B	127064-1	TEST POINT, SMT 1206	E 7
TP29	127064-1	TEST POINT, SMT 1206	E 7
TP30	127064-1	TEST POINT, SMT 1206	E 9
TP31	127064-1	TEST POINT, SMT 1206	E 8
TP32	127064-1	TEST POINT, SMT 1206	E B
		TEST POINT, SMT 1206	87
TP33	127064-1		
TP34	127064-1		
TP35	127064-1	TEST POINT, SMT 1206	СВ
TP36	127064-1	TEST POINT, SMT 1206	
TP37	127064-1	TEST POINT, SMT 1206	J 7
TP38	127064-1	TEST POINT, SMT 1206	K 11
TP39	127064-1	TEST POINT, SMT 1206	<u>A 3</u>
TP40	127064-1	TEST POINT, SMT 1206	<u> </u>
TP41	127064-1	TEST POINT, SMT 1206	СЭ
TP43	127064-1	TEST POINT, SMT 1206	ВЭ
TP45	127064-1	TEST POINT, SMT 1206	B 2
ТР46	127064-1	TEST POINT, SMT 1206	В 3
TP47	127064-1	TEST POINT, SMT 1206	Н 13
TP48	127064-1	TEST POINT, SMT 1206	B 11
TP49	127064-1	TEST POINT, SMT 1206	A 8
TP50	127064-1	TEST POINT, SMT 1206	E 8
TP91	127064-1	TEST POINT, SMT 1206	B 8
TP100	127064-1	TEST POINT, SMT 1206	P 6
TP101	127054-1	TEST POINT, SMT 1206	P 5
TP102	127064-1	TEST POINT, SMT 1206	N 6
TP103	127064-1	TEST POINT, SMT 1206	M 10
TP104	127064~1	TEST POINT, SMT 1206	05
TP105	127064-1	TEST POINT, SMT 1206	P 6
TP143	127064-1	TEST POINT, SMT 1206	AB
TP162	127064-1	TEST POINT, SMT 1206	В 9
TP200	127064-1	TEST POINT, SMT 1206	P 4
TP201	127064-1	TEST POINT, SMT 1206	P 3
		TEST POINT, SMT 1206	N 4
TP202	127064-1	TEST POINT, SMT 1206	P 10
TP203	127064-1		03
TP204	127064-1	TEST POINT, SMT 1206	P 4
TP205	127064-1	TEST POINT, SMT 1206	K 2
TP243	127064-1	TEST POINT, SMT 1205	K_2
TP244	127064-1	TEST POINT, SMT 1205	
TP245	127064-1	TEST POINT, SMT 1206	0.6
TP247	127064-1	TEST POINT, SMT 1206	<u> </u>
TP24B	127064-1	TEST POINT, SMT 1206	М З
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		PARTS LIST	<u> </u>
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
TP249	127064-1	TEST POINT, SMT 1206	A 2
TP251	127064-1	TEST POINT, SMT 1206	86
TP252	127064-1	TEST POINT, SMT 1206	A 4
TP253	127064-1	TEST POINT, SMT 1206	6.0
TP254	127064-1	TEST POINT, SMT 1206	03
TP255	127064-1	TEST POINT, SMT 1206	P 2
TP256	127064-1	TEST POINT, 5MT 1206	<u>C 7</u>
TP257	127064-1	TEST POINT, SMT 1206	N 5
U1	C 9038-8	COMPARATOR, QUAD LM339D SO-14	N 1
U2	128279-1	IC, SGSL4981B PFC CONTROL	DЗ
U3	C 8262-5	MC33078D LOW NOISE DUAL OF AMP	0 1
U3 U4	126681-1	IC, PWN CONT PHASE SHIFT	DB
U5	C 9929-8	TL431ACLP ADJ PREC RENC T/A	С 8
U6	125868-1	OP AMP TL074CD SMT	0.6
U7	126559-1	COMPARATOR, LM393 SO-B DUAL	В 7
	126561-1	REG, +5V LOW POWER 50-8	N 3
U8	127145-1	DVR, 1.5A DUAL SO-8 MOSFET	E 3
<u>U9</u>	126559-1	COMPARATOR, LM393 SO-8 DUAL	А З
U10		COMPARATOR, LM393 50-8 DUAL	A 3
<u>U11</u>	126559-1	REGULATOR, 15V SO-8	A 4
<u>U12</u>	126633-1	COMPARATOR, LM393 SO-B DUAL	СЗ
U13	126559-1	REG, +5V LOW POWER SO-B	G 14
U14	126561-1		H 14
U15	126653-1	SGL 2 INPUT NOR GATE SOT-23-5	Н 13
U16	125867-1	MC74HC4024D 7 STAGE COUNTER SM	E 7
U17	127145-1	DVR, 1.5A DUAL SO-8 MOSFET	B 10
U18	128383-1	OPTO HCNW2211 IEC65 COMPLIANT	
U19	126561-1	REG, +5V LOW POWER SO-8	
U2Ø	128382-1	OPTO SFH615A-2 IEC65 COMPLIANT	A 10
U21	126559-1	COMPARATOR, LM393 SO-8 DUAL	A 9
U22	125541-1	DRVR, 600V IR2104 HALF BRIDGE	LG
U23	126553-1	IC, 20V 0.1350HM SOB DUAL NMOS	
U24	126559-1	COMPARATOR, LM393 SO-8 DUAL	A 4
U25	C 9929-8	TL431ACLP ADJ PREC RENC T/A	<u>C3</u>
U26	127145-1	DVR, 1.5A DUAL SO~B MOSFET	<u>E 3</u>
U27	126633-1	REGULATOR, 15V SO-B	<u>E 4</u>
U28	C 5095-2	MC7815CT +15V. REG	D 7
U29	127145-1	DVR, 1.5A DUAL SO-B MOSFET	E 9
U30	128382-1	OPTO SFH615A-2 IEC65 COMPLIANT	A 9
U31	127145-1	DVR, 1.5A DUAL SO~8 MOSFET	E 7
U32	127145-1	DVR, 1.5A DUAL SO-8 MOSFET	E 8
U33		OPEN	A 10
U34		OPEN	B 10
U35	C10344-7	74HC74AD DUAL D FLIP FLOP SOIC	C 7
U36	128382-1	OPTO SFH615A-2 IEC65 COMPLIANT	A 10
U37	126559-1	COMPARATOR, LM393 SD-B DUAL	D B
U99	C 9038-B	COMPARATOR, QUAD LM339D SO-14	ВВ
U100	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	P 5
U101	126548-1	COMPARATOR, LM361 HI SPD SO-14	N 5
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		PARTS LIST	T
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
U102	126561-1	REG, +5V LOW POWER SO-8	N 5
U103	126548-1	COMPARATOR, LM361 HI SPD SO-14	NB
U104	126561-1	REG, +5V LOW POWER SD-8	N 6
U105	125869-1	OP AMP LM31BM SMT	N 6
U106	126540-1	IC, QUAD 2 INPUT NOR GATE SO-14	мб
U107	125545-1	HCPL0601 HI SPEED OPTO	M 7
U108	126559-1	COMPARATOR, LM393 SO-8 DUAL	N 7
U110	C 8262-5	MC33078D LOW NOISE DUAL OP AMP	P 5
U111	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	05
U112	C 9038-8	COMPARATOR, QUAD LM339D SO-14	02
U113	C 9038-8	COMPARATOR, QUAD LM339D SD-14	М 5
U114	C 9038-B	COMPARATOR, QUAD LM339D SO-14	M 4
U115	C 9038-8	COMPARATOR, QUAD LM339D SO-14	L 8
U116	C 9038-8	COMPARATOR, QUAD LM339D SO-14	M 4
U117	C 9038-8	COMPARATOR, QUAD LM339D SO-14	ΟZ
U118	126561-1	REG, +5V LOW POWER SO-8	к в
	125546-1	HCPL0611 HI SPEED OPTO	к 9
U119 U120	125544-1	MC34151D HISPD DUAL MOSFET DVR	L L L
		MC34151D HISPD DUAL MOSFET DVR	J 11
<u>U121</u>	125544-1		K 11
U122	126561-1	REG, +5V LOW POWER SO-8	K 11
U123	125545-1	HCPL0601 HI SPEED OPTO	
<u>U124</u>	C10344-7	74HC74AD DUAL D FLIP FLOP SOIC	
U125	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	N 2
U200	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	P 4
U201	126548-1	COMPARATOR, LM361 HI SPD SO-14	N 4
U202	126561-1	REG, +5V LOW POWER SO-8	N 4
U203	126548-1	COMPARATOR, LM361 HI SPD SO-14	N 3
U204	126561-1	REG, +5V LOW POWER 50-8	N 3
U205	125869-1	OP AMP LM318M SMT	N 4
U2Ø7	125545-1	HCPL0601 HI SPEED OPTO	P 7
U20B	126559-1	COMPARATOR, LM393 SO-8 DUAL	P 7
U210	C 8262-5	MC3307BD LOW NOISE DUAL OP AMP	P 3
U211	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	03
U213	C 9038-8	COMPARATOR, QUAD LM339D SO-14	M 4
U214	C 9038-8	COMPARATOR, QUAD LM339D SO-14	МЗ
U218	126561-1	REG, +5V LOW POWER SO-8	K 4
U219	125546-1	HCPL0611 HI SPEED OPTO	К 5
U220	125544-1	MC34151D HISPD DUAL MOSFET DVR	J 5
U221	125544-1	MC34151D HISPD DUAL MOSFET DVR	JЗ
U222	126561-1	REG, +5V LOW POWER SO-8	К 2
U223	125545-1	HCPL0601 HI SPEED OPTO	КЗ
U224	C10344-7	74HC74AD DUAL D FLIP FLOP SOIC	N 5
Y1	C10476-7	CRYSTAL, 4 MHZ HC49U SERIES	G 13
1	126583-8	PWB, CE4000 MAIN	
1	120303 0		1
2	103415-10005	SCREW, B-32X.312 TORX PNHD SEM	
3		INSULATOR, CE4K HEATSINK NOMEX	
4	126923-4		+
5	128130-1	RIVET, CE4000 INS RET PLASTIC	<u> </u>
			+
NTROLLED C CLUDING AS	UNCONTROLLE WISE MARKED IN RE OPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A INACTIVE	I
HESE DRAWI ROPERTY OF HALL NOT B	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP	NAL, INC. AND A 126218-	13 ′
	S FOR THE MANUFAC		

CE4000 MAIN PWA NUMBER: 126218-13 DRAWING SHEET: 41



CE4000 MAIN PWA NUMBER: 126218-13 DRAWING SHEET: 41



<b></b>					REV	1510N	HISTORY					
E.C.N.	REV				DESCRI	TION				DATE	APPROV DWN CHK C	
00N0838	A	RELEAS	E FOR PRO	DUCTION						10-02-00	KBZ FUL	mam
Т									ING ASSEM ASS 2 STA		LL MEET	U y
1	. F	RINTE	D WIRI	NG BOAR	D PART	NUME	ER 126	583-	8.			
2	. A	LL LE	ADS SH	ALL BE	TRIMMED	то	0.093"	OR	LESS.			
3	. F	OSITI	ON COM	PONENTS	AS SHO	WN C	N COMP	ONEN	IT MAPS.			
4		THE PRINTED WIRING ASSEMBLY PART NUMBER FOR THIS ASSEMBLY SHALL BE MARKED ON THE PRINTED WIRING BOARD AND SHALL BE PERMANENT.										
5					EVENT S ENT MAP		R FROM	ACC	UMULATING	IN HOL	ES	
6									, INDICAT D WIRING		NENTS	
7	T C E A	THE VENT HOLE ON TOP OF THE RELAY K1 MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMILAR CUTTING TOOL. WARNING, THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS NOT BEFORE!! WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY.										
В	C F C	OMPON 1325, R CONTAC	IENTS: [ 363,R3[ T AREA	C2.C700 54.R463 OF 1/4	,R42,R1 , AND F	42,F 464. "ON	ADHES BOTH	49,F IVE THE	PPORT TO 150,R242, MUST HAVE DESIGNATE PONENT.	R243,R2 A MINI	49,R250, MUM	
9	Æ	ND AC Body C	TIVATOR F R713	R(12548 AND SI	3-1).	ND M	IORE TH	AN Ø	TE ADHESI 1.1" GAP A T BE FILL	LLOWED	BETWEEN	E
10	C	E4000	MAIN A	⊃WA.					LISTED I			
11	. A	DD 1/	′4″ SQ.	PIECE	UF KAPI	UN 1	APE (S	6285	-1) UNDEF	1 H260 A 	S SHUWN.	
							CAU	ΤIC	אנ			
					, ST	ATIC	CAN DAM	AGE	COMPONENTS!			
						пп	ΝΠΤ	НА	NDLE			
					L				P IS WORN			
PROPERT SHALL N AS THE	IY OF NOT BE BASIS	CROWN REPRO	SPECIFIC INTERNATI DUCED, CO HE MANUFA VICES WIT	ONAL, INC PIED, OR CTURE OR	. AND USED SALE	CONT INCL	ROLLED CO	WISE N DPY, C Sociat	CONTROLLE MARKED IN REI COPIES OF THE TED ELECTRONI ONLY.	D INK BY CH	NTS	
DIST	RIBUT	IDN	DWN	КВZ	10-02-00	প্র				171B W.	MISHAWAKA	RD.
К			СНК	SUM	10-300	ľ				FRUNE(Z)	IN, 46517 9)294-8000 WNINTL,COM	
FILENAME	5		СМ	mma	1013100	TITLE		INAT 1	DNAL, INC.	###, LNU	LUM	
126218-			PE	mo	10 3 60		-	Α,	CE400	) Ø MA	IN	
OTHERWIS	SE SPE	CIFIED										
	) = ± ) = ± 5 = ±	010"				size A	DWG NO.		12621	8-14	+	REV A
DO NOT SI	CALE I	RAWING				SCAL	E NDNE	PROJ	ND. MD425D0	SHEET	SHEET 1 OF	48



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C1	127046-1	CAP, 940UF 450V HIGH RIPPLE	D 6
C2	C10094-8	1.5UF 630V 5% RADIAL POLY CAP	E 5
С3	126542-1	2.2UF 50V 5.5MM HIGH SMD	DВ
C4	126542-1	2.2UF 50V 5.5MM HIGH SMD	E 4
C5		OPEN	B 10
C6	127046-1	CAP, 940UF 450V HIGH RIPPLE	B 4
C7	127047-1	CAP, 820UF 150V HIGH RIPPLE	D 13
CB	127047-1	CAP, B20UF 150V HIGH RIPPLE	C 13
C9		.33UF 50V 5% CHIP X7R 1210	E 3
C10		.33UF 50V 5% CHIP X7R 1210	D 4
C11		.1UF 50V CHIP CAP 10% 0805 X7R	D 4*
C12		.1UF 50V CHIP CAP 10% 0805 X7R	D 3*
C13		.1UF 50V 5% X7R 0805 T/R	D 3
C14		.01 UF 50V 10% X7R MLC 0805	D 3
C15		220PF 50V 5% NPO 1206 SMD	M 6*
	126551-1	100UF 25V 5.5MM HIGH SMD	C 3
C16			
C17	C10090-6	4.7UF 400V 10% AXIAL FILM	Dg
C18	126551-1	100UF 25V 5.5MM HIGH SMD	D 7
C19 C20		.1UF 50V CHIP CAP 10% 0805 X7R	D 3
C20		.1UF 50V CHIP CAP 10% 0805 X7R	D 3*
C21		560PF 50V 1% NPO MLC 0805	D 4
C22		1500PF 50V 5% NPO MLC 0805 T/R	DЗ
C23	126539-1	10UF 16V 5.5MM HIGH SMD	DЗ
C24		.1UF 50V CHIP CAP 10% 0805 X7R	<u>C 4</u>
C25	C 7091-9	.33 UF 50V Z5U CHIP CAP	D 4*
C26	A11427-102K2	.001UF 50V 10% X7R CER CHIP	C 8
C27	C 4253-8	4.7UF 63V 20% VERT ELECT T/R	E 4
C28	C B26B~2	220UF 35V 20% VERT	B 8
C29	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 8*
С30	126551-1	100UF 25V 5.5MM HIGH SMD	M 7
C31	126551-1	100UF 25V 5.5MM HIGH SMD	N 7
C32	126551-1	100UF 25V 5.5MM HIGH SMD	07
C33	A11369-222K5	2200PF 50V 10% CHIP NPO 1206	C 8*
C34	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	В 3
C35	A11369-471K2	470PF 50V 10% NPO 0805 T/R	C 8
C36	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	DВ
C37	126551-1	100UF 25V 5.5MM HIGH SMD	DB
С38	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	DB
C39	126539-1	10UF 16V 5.5MM HIGH SMD	DB
C40	·····	DPEN	A 7
C41	126551-1	100UF 25V 5.5MM HIGH SMD	P 7
C42		100 PF 50V 5% NPO MLC 0805 T/R	м б*
C43	A11369-102J2		C 9*
C44		.001UF 50V 5% NPO MLC 0805 T/R	A B
C45	126551-1	100UF 25V 5.5MM HIGH SMD	E 4
C46	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 9*
C47	C 9465-3	10UF 50V 20% VERT ELECT T/A	B 4
<u>.</u>			
LUDING ASS	UNCONTROLLE WISE MARKED IN RE DPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A ESE DOCUMENTS	<b>_</b>
ESE DRAWIN OPERTY OF	NGS AND SPECIFICA CROWN INTERNATIO	NAL, INC. AND $\Delta$ 126218-	14
	REPRODUCED, COP FOR THE MANUFAC	TURE OR SALE	
	OR DEVICES WITH		11 OF 48



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C48	C 7091-9	.33 UF 50V Z5U CHIP CAP	АЗ
C49	103191-1	0.47UF 50V Z5U 1210 T/R	ВЗ
C50	126542-1	2.2UF 50V 5.5MM HIGH SMD	A 4
C51	A11427-104K2		М В*
C52		.1UF 50V CHIP CAP 10% 0805 X7R	M 8*
C53		.01 UF 50V 10% X7R MLC 0805	M 8
C54	126630-1	CAP, 470UF 25V RAD ELECT	I 13
C56	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0 1*
C57	A11427-104K2		0 1*
C58	A11427-104K2		0 1*
C59	A11427-104K2		N 1*
C60	A11427-104K2		
C61		.1UF 50V CHIP CAP 10% 0805 X7R	0 1
		.1UF 50V CHIP CAP 10% 0805 X7R	C 8*
C62			
C63		.33UF 50V 5% CHIP X7R 1210	H 14
C64	125508-1	10UF 50V 20% SMT AL ELECT T/R	G 14
C65		.1UF 50V CHIP CAP 10% 0805 X7R	
C66		56PF 200V 10% NPO 0805 T/R	
C67		56PF 200V 10% NPO 0805 T/R	H 13
C68		.1UF 50V CHIP CAP 10% 0805 X7R	H 14
C69		.1UF 50V CHIP CAP 10% 0805 X7R	D 5
C70	126542-1	2.2UF 50V 5.5MM HIGH SMD	<u>C 7</u>
C71		.1UF 50V CHIP CAP 10% 0805 X7R	B 9*
C72	103191-1	0.47UF 50V Z5U 1210 T/R	ВЗ
C73	126551-1	100UF 25V 5.5MM HIGH SMD	A 4
C74		.1UF 50V CHIP CAP 10% 0805 X7R	E 7*
C75		.047UF 50V CHIP CAPACITOR X7R	B 3
C76	126542-1	2.2UF 50V 5.5MM HIGH SMD	СЭ
C78		.001UF 50V 10% X7R CER CHIP	83
C79	126551-1	100UF 25V 5.5MM HIGH SMD	E 7
СВØ	126551-1	100UF 25V 5.5MM HIGH SMD	EB
CB1	126551-1	100UF 25V 5.5MM HIGH SMD	D 1
CB2	126551-1	100UF 25V 5.5MM HIGH SMD	M 5
CB3	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	L 6*
CB4	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	L 6*
C85	126551-1	100UF 25V 5.5MM HIGH SMD	L 5
C86	126551-1	100UF 25V 5.5MM HIGH SMD	L 6
C87	C10516-0	470.UF 10V 20% LOW ESR RDL T/R	L 6
C88	C10516-0	470.UF 10V 20% LOW ESR RDL T/R	L 7
C89	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	B 7
C90	103191-1	0.47UF 50V Z5U 1210 T/R	N 3*
C91	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 5
C92	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 3*
C93	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	C 3*
C94	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 3*
C95	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 3*
C96	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 3*
		a construction that are a supported as the second	
NTROLLED C CLUDING AS	UNCONTROLLE WISE MARKED IN RE OPY, COPIES OF TH SOCIATED ELECTRON RENCE DNLY.	D INK BY CM AS A HESE DOCUMENTS	
HESE DRAWIN ROPERTY OF HALL NOT BE	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP	NAL, INC. AND A 126218-	14
	S FOR THE MANUFAC S OR DEVICES WITH		12 DF 48



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		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
C97		.1UF 50V CHIP CAP 10% 0805 X7R	E 12
C98		.1UF 50V CHIP CAP 10% 0805 X7R	D 12
C99		.1UF 50V CHIP CAP 10% 0805 X7R	C 7*
C100	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	N 13
C101			P 5*
C102	103191-1	0.47UF 50V Z5U 1210 T/R	P 5
C103		100PF 200V NPO 0805 T/R	06
C104	102438-221F2	220PF 200V 1% NPD 0805	06
C105	102438-10236	1000PF 200V 5% 1210 NPD	06*
C106	103430-331K2	330PF 250V 10% NPO 0805 T/R	0 6*
C107	102438-221F2	220PF 200V 1% NPO 0805	Р 6
C108	A11427-473K5	.047UF 50V CHIP CAPACITOR X7R	06
C109		0.01UF 500V 5% X7R 1206 T/R	06
C110		12PF 50V 10% NPO 0805 T/R	P 5*
C111		12PF 50V 10% NPO 0805 T/R	0 5*
C112		470.PF 50V 1% NPO MLC 0805	0 5*
C113		100 PF 50V 5% NPO MLC 0805 T/R	0 5*
C114		3300.PF 50V 1% NPO MLC 1206	05
		3300.PF 50V 1% NPO MLC 1206	P 6*
C115		12PF 50V 10% NPD 0805 T/R	P 6*
C116		12PF 50V 10% NPO 0805 T/R	P 6*
E117			N 5*
C11B		47PF 50V 10% NPO 0805 T/R	<u>N</u> Б*
C119		47PF 50V 10% NPO 0805 T/R	
C120		.1UF 50V CHIP CAP 10% 0805 X7R	05
C121		.1UF 50V CHIP CAP 10% 0805 X7R	
C122		.1UF 50V CHIP CAP 10% 0805 X7R	N 5*
C123	103191-1	0.47UF 50V Z5U 1210 T/R	05
C124		.1UF 50V CHIP CAP 10% 0805 X7R	0 6
C125		.1UF 50V CHIP CAP 10% 0805 X7R	06
C126	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 6*
C127	103191-1	0.47UF 50V Z5U 1210 T/R	06
C128	C10466-8	.22UF 50V 5% MTL FILM RDL T/A	M 9
C129	A10434-104JD	1UF 250V 5% MTL POLY FILM T/A	M 10
C130		0.01UF 50V 10% X7R SMD 1206	N 7
C131	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	M 10
C132	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	N 12
C133	A10434-473JD	.047UF 250VDC 5% MET POLY T/A	N 12
C134	A11427-224J5	0.22UF 50V 5% X7R 1206 T/R	M 12
C135	A10434-473JD	.047UF 250VDC 5% MET POLY T/A	M 12
C136	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	N 13
C137	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	N 13
C138	A10434-104 ID	.1UF 250V 5% MTL POLY FILM T/A	N 13
C139	A10434-104JD		N 13
C140	A10434-104JD		0 13
		12PF 50V 10% NPO 0805 T/R	E 4
C141		0.47UF 50V Z5U 1210 T/R	A 9
C142	103191-1		B 9
C143	A11369-22135	220PF 50V 5% NPD 1206 SMD	
			1
CONTROLLED C	UNCONTROLLE RWISE MARKED IN RE COPY, COPIES OF TH SOCIATED ELECTRON RENCE DNLY.	D INK BY CM AS A HESE DOCUMENTS	
PROPERTY OF SHALL NOT B	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP	NAL. INC. AND A 126218-	14 Rev A
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UF AFPARATU	S ON DEVICES WITH		



		P/	ARTS LIST					
REF DES	C.P.N.	DESCRIPTION					MAP LOC.	
C144		.047UF 50V CHI	P CAPACITO	DR X7R			A 4*	
C145	A11427-334J6	.33UF 50V 5% C	HIP X7R 12	210			NБ	
C146		0.01UF 50V 10%					NБ	
C147		.1UF 50V CHIP					М б	
C148		,1UF 50V CHIP					M 7*	
C149		10UF 25V 20% A					M 7	
C150		,1UF 50V CHIP					N 7*	
C151		1000PF 50V 10%					M 7*	
C152		1000PF 50V 10%					N 7*	
C153	C 6995-2	022UF 100V CHI					N 6*	
		220PF 50V 5% N					N 6*	
C154							N 6*	
C155		.1UF 50V CHIP						
C156		.1UF 50V CHIP		305 X/R			N 6*	
E157	126539-1	10UF 16V 5.5MM					N B	
C158	126539-1	10UF 16V 5.5MM					N 6	
C159		220.PF 50V 10%					N 6	
C160	127684-1	.0047UF 5% 16V					0 4*	
C161		.0047UF 5% 16V					0 4*	
C162		1UF 50V 5% X7					0 5*	
C163		220PF 50V 5% N					0 5*	
C164		.001UF 50V 5%					0.5*	
C165	A11369-221J5	220PF 50V 5% N	PO 1206 SM	/D			0.5*	
C166	A11369-102J2	.001UF 50V 5%	NPO MLC Ø8	305 T/R			0 5*	
C167	A11369-102J2	.001UF 50V 5%	NPO MLC 08	805 T/R			N 5*	
C168	A11369-221J5	220PF 50V 5% N	PO 1206 SM	٨D			0 5*	
C169	A11369-102J2	.001UF 50V 5%	NPO MLC Ø8	805 T/R			N 5*	
C17Ø	126623-1	47UF 16V 6.3X5	.5MM 20% 9	бмт			05	
C171	A11369-102K5	1000PF 50V 10%	NPO 1206	SMD			L 3*	
C172	126539-1	10UF 16V 5.5MM	HIGH SMD				м 6	
C173	126539-1	10UF 16V 5.5MM	HIGH SMD				P 5	
C174	126539~1	10UF 16V 5.5MM	HIGH SMD				05	
C175	126543-1	2.2UF 50V 5.5M	M HIGH NP	SMD			N 5	
С176	103191-1	0.47UF 50V Z5U	1210 T/R				M 4*	
C177		.1UF 50V CHIP		305 X7R			L 3*	
C178		OPEN					L B	
C179	A11427-184J5	0.18UF 50V 5%	X78 1206 1	[/R			N 2*	
C180		100UF 25V 5.5M					N 3	
C181		100UF 25V 5.5M					M 5	
C182		.1UF 50V CHIP						
C183		.1UF 50V CHIP					L 8	
		.1UF 50V CHIP					L 11*	
C185		.1UF 50V CHIP						
C186		.1UF 50V CHIP					КВ	
C187		.1UF 50V CHIP					<u> </u>	
C188		150PF 250V 10%					К В*	
C189		150PF 250V 10%					К В*	
C190	A10434-473JD	.047UF 250VDC	5% MET POL	Y T/A			N 9	
							l	
NTROLLED C	UNCONTROLLE WISE MARKED IN RE DPY. COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY EM AS A ESE DOCUMENTS						
	NGS AND SPECIFICA		IZE DWG NO.		12621	<u> </u>	1 /	1
ROPERTY OF	CROWN INTERNATIO		A		12021	U	14	



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
C191	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	N 9
C192		.047UF 250VDC 5% MET POLY T/A	9 И
C193	103430-151K2	150PF 250V 10% NPO 0805 T/R	K 11*
C194	103430-151K2	150PF 250V 10% NPO 0805 T/R	K 11*
C195		100UF 25V 5.5MM HIGH SMD	K 12
C196	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	K 11
C197		.1UF 50V CHIP CAP 10% 0805 X7R	K 12
C198		.1UF 50V CHIP CAP 10% 0805 X7R	м б*
C199		470PF 50V 10% CHIP NPO 1206	P 6*
C200		.001UF 50V 5% NPO MLC 0805 T/R	0 13
C200		OPEN	P 3*
		0.47UF 50V Z5U 1210 T/R	РЭ
C202		100PF 200V NPO 0805 T/R	0 4
C203		220PF 200V 1% NPO 0805	04
C204		1000PF 200V 5% 1210 NPD	0 4*
C205			D 4*
C206		330PF 250V 10% NPO 0805 T/R 220PF 200V 1% NPO 0805	P 4
C207		.047UF 50V CHIP CAPACITOR X7R	D 4
C208			04
C209		0.01UF 500V 5% X7R 1206 T/R	P 3*
C210		12PF 50V 10% NPO 0805 T/R	D 4*
C211		12PF 50V 10% NPO 0805 T/R	0 4*
C212		470.PF 50V 1% NPD MLC 0805	0 4*
C213		100 PF 50V 5% NPD MLC 0805 T/R	
C214		3300.PF 50V 1% NPO MLC 1206	
C215		3300.PF 50V 1% NPD MLC 1206	P 4*
C216		12PF 50V 10% NPO 0805 T/R	P 4*
C217		12PF 50V 10% NPO 0805 T/R	P 4*
C218		47PF 50V 10% NPO 0805 T/R	N 4*
C219	A11369-470K2	47PF 50V 10% NPO 0805 T/R	N 3*
C220		.1UF 50V CHIP CAP 10% 0805 X7R	04
C221		.1UF 50V CHIP CAP 10% 0805 X7R	04
C222	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 4*
C223	103191-1	0.47UF 50V Z5U 1210 T/R	04
C224	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	03
C225	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 4
C226	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 3*
C227	103191-1	0.47UF 50V Z5U 1210 T/R	03
C228	C10466-8	.22UF 50V 5% MTL FILM RDL T/A	P 9
C229	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	P 10
C230		0.01UF 50V 10% X7R SMD 1206	07
C231		.1UF 250V 5% MTL POLY FILM T/A	P 10
C232		.1UF 250V 5% MTL POLY FILM T/A	P 12
C233		.047UF 250VDC 5% MET POLY T/A	P 12
C234		0.22UF 50V 5% X7R 1206 T/R	D 12
C235	A10434-473JD		0 12
C236		.1UF 250V 5% MTL POLY FILM T/A	D 13
	A10434-104JD		0 13
C237	UCHOL-LCHOD	THE ZOUT ON MILLIOLITIZED 17/1	1
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NTROLLED C CLUDING AS	UNCONTROLLE RWISE MARKED IN RE COPY, COPIES OF TH SOCIATED ELECTRON	ED INK BY CM AS A HESE DOCUMENTS	L
E FOR REFE	RENCE ONLY.		F
	NGS AND SPECIFICA CROWN INTERNATIC		14
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	S FOR THE MANUFAC	TURE OR SALE	



REF DES C238	C.P.N.	PARTS LIST DESCRIPTION	1
			MAP LOC.
	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	P 13
C239	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	P 13
C240	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	D 13
C241	126542-1	2.2UF 50V 5.5MM HIGH SMD	СВ
C242	126542-1	2.2UF 50V 5.5MM HIGH SMD	DB
C245	A11427-334J6	.33UF 50V 5% CHIP X7R 1210	06
C246		0.01UF 50V 10% X7R 5MD 1206	D 6
C247		.1UF 50V CHIP CAP 10% 0805 X7R	M 5
C248		,1UF 50V CHIP CAP 10% 0805 X7R	0.7*
C249	130561-1	10UF 25V 20% ALUM ELEC SMT T/R	D 7
C250		.1UF 50V CHIP CAP 10% 0805 X7R	P 7*
C250		1000PF 50V 10% NPO 1206 SMD	0.7*
C257		1000PF 50V 10% NPO 1206 SMD	P 7*
C253	C 6995-2	022UF 100V CHIP CAPACITOR X7R	N 4*
		220PF 50V 5% NPO 1206 SMD	N 4*
C254		.1UF 50V CHIP CAP 10% 0805 X7R	N 4*
C255		1UF 50V CHIP CAP 10% 0805 X7R	N 4*
C256			N 4
C257	126539-1	10UF 16V 5.5MM HIGH SMD	
C258	126539-1	10UF 16V 5.5MM HIGH SMD	N 4
C259		220.PF 50V 10% NPO MLC 0805	N 4
C260	127684-1	.0047UF 5% 16V 0805 FILM SMT	0 3*
C261	127684-1	.0047UF 5% 16V 0805 FILM SMT	0 3*
C262		.1UF 50V 5% X7R 0805 T/R	0 3*
C263		220PF 50V 5% NPD 1206 SMD	0 3*
C264	A11369-102J2	.001UF 50V 5% NPD MLC 0805 T/R	0 3*
C265	A11369-221J5	220PF 50V 5% NPD 1206 SMD	03*
C266	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	0 3*
C267	A11369-102J2	.001UF 50V 5% NPD MLC 0805 T/R	N 3*
C268	A11369-221J5	220PF 50V 5% NPO 1206 SMD	03*
C269	A11369-102J2	.001UF 50V 5% NPD MLC 0805 T/R	N 3*
C270	126623-1	47UF 16V 6.3X5.5MM 20% SMT	03
C271	A11369-471K5	470PF 50V 10% CHIP NPO 1206	P 4*
C272	126539-1	10UF 16V 5.5MM HIGH SMD	N 5
C273	126539-1	10UF 16V 5.5MM HIGH SMD	P 4
C274	126539-1	10UF 16V 5.5MM HIGH SMD	D 4
C275	126543-1	2.2UF 50V 5.5MM HIGH NP SMD	N 4
C276	103191-1	0.47UF 50V Z5U 1210 T/R	M 2*
C277	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 3*
C278		OPEN	N 3*
C279	A11427-184.15	0.18UF 50V 5% X7R 1206 T/R	N 2*
C2B1	126623-1	47UF 16V 6.3X5.5MM 20% SMT	B 7
C2B2		470PF 50V 10% CHIP NPO 1206	
C283		.1UF 50V CHIP CAP 10% 0805 X7R	E 8*
		1UF 50V CHIP CAP 10% 0805 X7R	B 7*
C284		100UF 25V 5.5MM HIGH SMD	N 3
C285	126551-1		K 4
C286		.1UF 50V CHIP CAP 10% 0805 X7R	K 5
C287	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	+
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NTROLLED C	UNCONTROLLE WISE MARKED IN RE COPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A HERE DOCUMENTS	
ESE DRAWI OPERTY OF	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP S FOR THE MANUFAC	NAL, INC. AND A 126218-	14



C288       L         C290       L         C291       L         C292       L         C293       L         C294       L         C295       L         C296       L         C297       L         C298       L         C299       L         C300       L         C302       L         C303       L         C304       L         C305       L         C306       L         C307       L         C308       L	103430-151K2 103430-151K2 A10434-473JD A10434-104JD A10434-473JD 103430-151K2 103430-151K2 126551-1 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R 1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	MAP       LOC.         K       5*         D       9         D       9         D       9         K       2*         K       2*         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         A       4*         A       4*         A       4*         A       10         B       10         A       7
C289       C290         C291       C293         C293       C293         C294       C295         C295       C296         C297       C298         C299       C299         C300       C301         C302       C303         C304       C305         C306       C307         C308       C308	103430-151K2 A10434-473JD A10434-104JD A10434-473JD 103430-151K2 103430-151K2 126551-1 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	150PF 250V 10% NPO 0805 T/R .047UF 250VDC 5% MET POLY T/A .1UF 250V 5% MTL POLY FILM T/A .047UF 250VDC 5% MET POLY T/A 150PF 250V 10% NPO 0805 T/R 150PF 250V 10% NPO 0805 T/R 100UF 25V 5.5MM HIGH SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R	K       5*         O       9         O       9         K       2*         K       2         K       2         K       2         K       2         K       2         B       7         A       4*         L       3*         E       7*         A       4*         A       4*         A       10         B       10
C290       C291         C292       C293         C294       C295         C295       C296         C297       C298         C299       C200         C300       C201         C302       C203         C303       C204         C304       C205         C305       C206         C306       C207	A10434-473JD A10434-104JD A10434-473JD 103430-151K2 103430-151K2 126551-1 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	. 047UF 250VDC 5% MET POLY T/A . 1UF 250V 5% MTL POLY FILM T/A . 047UF 250VDC 5% MET POLY T/A 150PF 250V 10% NPO 0805 T/R 150PF 250V 10% NPO 0805 T/R 100UF 25V 5.5MM HIGH SMD . 1UF 50V CHIP CAP 10% 0805 X7R . 1UF 50V CHIP CAP 10% 0805 X7R	D       9         D       9         K       2*         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         B       7         A       4*         A       4*         A       4*         A       10         B       10
C291         C292         C293         C294         C295         C296         C297         C298         C299         C300         C301         C303         C304         C305         C306         C307         C308	A10434-104JD A10434-473JD 103430-151K2 103430-151K2 126551-1 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	. 1UF 250V 5% MTL POLY FILM T/A .047UF 250VDC 5% MET POLY T/A 150PF 250V 10% NPO 0805 T/R 150PF 250V 10% NPO 0805 T/R 100UF 25V 5.5MM HIGH SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R	D       9         K       2*         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         K       2         B       7         A       4*         A       4*         A       4*         A       10         B       10
C292         C293         C294         C295         C296         C297         C298         C299         C300         C301         C302         C303         C304         C305         C306         C307         C308	A10434-473JD 103430-151K2 103430-151K2 126551-1 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	. 047UF 250VDC 5% MET POLY T/A 150PF 250V 10% NPO 0805 T/R 150PF 250V 10% NPO 0805 T/R 100UF 25V 5.5MM HIGH SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R	D 9 K 2* K 2* K 2 K 2 K 2 B 7 A 4* L 3* E 7* A 4* A 4* A 4* A 10 B 10
C293 C294 C295 C296 C297 C298 C299 C300 C301 C301 C302 C303 C304 C305 C306 C307 C308	103430-151K2 103430-151K2 126551-1 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	150PF 250V 10% NPO 0805 T/R 150PF 250V 10% NPO 0805 T/R 100UF 25V 5.5MM HIGH SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R 1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R	K 2* K 2 K 2 K 2 K 2 B 7 A 4* L 3* E 7* A 4* A 4* A 4* A 10 B 10
C294 C295 C296 C297 C298 C299 C300 C301 C301 C302 C303 C304 C305 C306 C306 C307 C308	103430-151K2 126551-1 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	150PF 250V 10% NPO 0805 T/R 100UF 25V 5.5MM HIGH SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R 1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R	K       2*         K       2         K       2         B       7         A       4*         L       3*         E       7*         A       4*         A       4*         A       4*         A       10         B       10
C295     C296       C297     C298       C299     C209       C300     C301       C302     C303       C303     C304       C305     C306       C307     C308	126551-1 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	100UF 25V 5.5MM HIGH SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R 1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	K       2         K       2         B       7         A       4*         L       3*         E       7*         A       4*         A       4*         A       4*         A       4*         A       10         B       10
C296       C297       C298       C299       C300       C301       C302       C303       C304       C305       C306       C307       C308	A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R 1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN OPEN .1UF 50V CHIP CAP 10% 0805 X7R	K 2 K 2 B 7 A 4* L 3* E 7* A 4* A 4* A 4* A 10 B 10
C297       C298       C299       C300       C301       C302       C303       C304       C305       C306       C307       C308	A11427-104K2 A11427-104K2 A11427-104K2 A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R 1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	K 2 B 7 A 4* L 3* E 7* A 4* A 4* A 10 B 10
C298 C299 C300 C301 C302 C303 C304 C305 C306 C306 C307 C308	A11427-104K2 A11427-104K2 A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	.1UF       50V       CHIP       CAP       10%       0805       X7R         .1UF       50V       CHIP       CAP       10%       0805       X7R         1000PF       50V       10%       NPO       1205       SMD         .1UF       50V       CHIP       CAP       10%       0805       X7R         OPEN       .1UF       50V       CHIP       CAP       10%       0805       X7R	B 7 A 4* L 3* E 7* A 4* A 4* A 10 B 10
C299 C300 C301 C302 C303 C304 C305 C306 C306 C307 C308	A11427-104K2 A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R 1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	A 4* L 3* E 7* A 4* A 4* A 10 B 10
C299 C300 C301 C302 C303 C304 C305 C306 C306 C307 C308	A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	E 7* A 4* A 4* A 10 B 10
C300 C301 C302 C303 C304 C305 C306 C306 C307 C308	A11369-102K5 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	1000PF 50V 10% NPO 1206 SMD .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	E 7* A 4* A 4* A 10 B 10
C301 C302 C303 C304 C305 C306 C306 C307 C308	A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	A 4* A 4* A 10 B 10
C302 C303 C304 C305 C306 C306 C307 C308	A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2 A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R .1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	A 4* A 4* A 10 B 10
C303 C304 C305 C306 C307 C308	A11427-104K2 A11427-104K2 A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R OPEN .1UF 50V CHIP CAP 10% 0805 X7R	A 4* A 10 B 10
C304 C305 C306 C307 C308	A11427-104K2 A11427-104K2	OPEN OPEN .1UF 50V CHIP CAP 10% 0805 X7R	A 10 B 10
C305 C306 C307 C308	A11427-104K2	OPEN .1UF 50V CHIP CAP 10% 0805 X7R	B 10
C306 C307 C308	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	
C307 C308	A11427-104K2		
C308			
	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u>H 14</u>
C309		.1UF 50V CHIP CAP 10% 0805 X7R	88
		.1UF 50V CHIP CAP 10% 0805 X7R	88
	125508-1	10UF 50V 20% SMT AL ELECT T/R	ЕМ
		2.2UF 50V 5.5MM HIGH SMD	M 9
		0.01UF 50V 10% X7R SMD 1206	D 3*
C315		470PF 50V 10% CHIP NPO 1206	05
C316	126551-1	100UF 25V 5.5MM HIGH SMD	КВ
C317	126551-1	100UF 25V 5.5MM HIGH SMD	КВ
C318	126551-1	100UF 25V 5.5MM HIGH SMD	КВ
C319	126551-1	100UF 25V 5.5MM HIGH SMD	КВ
C32Ø	126539-1	10UF 16V 5.5MM HIGH SMD	DЭ
C321	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	К 7
C322	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	К 8
C323	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0.5*
	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	05
	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	P 5*
	A11427-104K2		P 5*
		.1UF 50V CHIP CAP 10% 0805 X7R	P 5*
	A11427-104K2		P 5*
	A11427-104K2		D 2*
			0 2*
	A11427-104K2		
	126539-1	10UF 16V 5.5MM HIGH SMD	
	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	
	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	
	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	С 3*
	126539-1	10UF 16V 5.5MM HIGH SMD	M 5
C337	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	A 10
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	IGS AND SPECIFICA CROWN INTERNATIO	NAL THE AND $1.25219$	14
HALL NOT BE	REPRODUCED, COP FOR THE MANUFAC	IED, OR USED	1



		PARTS LIST		
REF DES	C. P. N.	DESCRIPTION		MAP LOC.
C338		.1UF 50V CHIP CAP 10% 0805	5 X7R	A 9
C339		0.22UF 50V 5% X7R 1206 T/F		N 2*
C340		.1UF 50V CHIP CAP 10% 0805	· · · · · · · · · · · · · · · · · · ·	M 4*
C341	A11427-104K2	.1UF 50V CHIP CAP 10% 0805		M 4*
C341	A11427-104K2	.1UF 50V CHIP CAP 10% 0805		M 5*
· · · · · · · · · · · · · · · · · · ·				M 5*
C343	A11427-104K2	.1UF 50V CHIP CAP 10% 0805		
C344	A11427-104K2	.1UF 50V CHIP CAP 10% 0805		
C345	A11427-104K2	.1UF 50V CHIP CAP 10% 0805		0 2*
C346		.1UF 50V CHIP CAP 10% 0805		L B
C347	A11427-104K2	.1UF 50V CHIP CAP 10% 0805		L 8
C348	C10325-6	2200.PF 250VAC 20% FILM Y2	2	<u> </u>
C349	126539-1	10UF 16V 5.5MM HIGH SMD		M 4
C350	A11427-104K2	.1UF 50V CHIP CAP 10% 0805	5 X7R	N 6*
C351	A11427-104K2	.1UF 50V CHIP CAP 10% 0805	5 X7R	06*
C352	A11427-104K2	.1UF 50V CHIP CAP 10% 0805	5 X7R	м 6*
C353	A11427-104K2	.1UF 50V CHIP CAP 10% 0805	5 X7R	0.2*
C354	126551-1	100UF 25V 5.5MM HIGH SMD		N 4
C355	A11427-104K2	.1UF 50V CHIP CAP 10% 0805	5 X7B	N 2*
C356		.1UF 50V CHIP CAP 10% 0805		M 5
C357		.1UF 50V CHIP CAP 10% 0805		M 5
		.1UF 50V CHIP CAP 10% 0805		B 9*
C35B	A11427-104K2			
C360		0.1UF 500V 10% X7R 1210 T/		<u> </u>
C361		0.01UF 500V 5% X7R 1206 T/		I 9*
C363		0.1UF 500V 10% X7R 1210 T/		H 7*
C365		0.1UF 500V 10% X7R 1210 T/		I 7*
C366	130636-104K6	0.1UF 500V 10% X7R 1210 T/	/R	I 12*
C367	130636-103J5	0.01UF 500V 5% X7R 1206 T/	/R	I 12*
C369	130636-104K6	0.1UF 500V 10% X7R 1210 T/	/R	I 10*
C371	130636-104K6	0.1UF 500V 10% X7R 1210 T/	′R	I 10*
C372	127483-1	6300UF 125V 9A LOW ESL 5 F	PIN	L 10
C373	1274B3-1	6300UF 125V 9A LOW ESL 5 F	PIN	L 12
C374	130636-104K6	0.1UF 500V 10% X7R 1210 T/	/R	I 9*
C375	130636-103J5	0.01UF 500V 5% X7R 1206 T/	/R	I 7*
C377	130636-104K6	0.1UF 500V 10% X7R 1210 T/	/R	H 12*
C378		0.01UF 500V 5% X7R 1206 T/	/R	I 10*
C380		0.1UF 500V 10% X7R 1210 T/	· · · · · · · · · · · · · · · · · · ·	I 8*
C382		0.1UF 500V 10% X7R 1210 T/		I 9*
C384		0.1UF 500V 10% X7R 1210 T/		I_1*
		0.1UF 500V 10% X7R 1210 T/		
C386				
C387	·	.1UF 50V 5% X7R 0805 T/R		
C38B		.1UF 50V 5% X7R 0805 T/R		J 9
C390		.1UF 50V 5% X7R 0805 T/R		J 11
C391		.1UF 50V 5% X7R 0805 T/R		J 11
C397		.01UF 250V 5%MTL POLY FILM	A T/A	N 10
C398		.1UF 50V 5% X7R 0805 T/R		0 5*
C400	130636-104K6	0.1UF 500V 10% X7R 1210 T/	/R	I 5*
C401	130636-103J5	0.01UF 500V 5% X7R 1206 T/	/R	I 4*
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NTROLLED C	UNCONTROLLE WISE MARKED IN RE DPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	) INK BY CM AS A SE DOCUMENTS		
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
СЭЗВ		.1UF 50V CHIP CAP 10% 0805 X7R	A 9
C339		0.22UF 50V 5% X7R 1206 T/R	N 2*
C340		.1UF 50V CHIP CAP 10% 0805 X7R	M 4*
C341	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 4*
C342	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 5*
			M 5*
C343	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	
C344	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	
C345	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0 2*
C346	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	LB
C347	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	LB
C34B	C10325-6	2200.PF 250VAC 20% FILM Y2	C 11
C349	126539-1	10UF 16V 5.5MM HIGH SMD	M 4
C350	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 6*
C351	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	06*
C352	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 6*
C353	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0 2*
C354	126551-1	100UF 25V 5.5MM HIGH SMD	N 4
C355	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 2*
C356	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	М 5
C357		.1UF 50V CHIP CAP 10% 0805 X7R	М 5
C358		.1UF 50V CHIP CAP 10% 0805 X7R	B 9*
C360	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	I 9*
C361		0.01UF 500V 5% X7R 1206 T/R	I 9*
C363		0.1UF 500V 10% X7R 1210 T/R	H 7*
C365		0.1UF 500V 10% X7R 1210 T/R	I 7*
C366		0.1UF 500V 10% X7R 1210 T/R	I 12*
C367		0.01UF 500V 5% X7R 1205 T/R	I 12*
C369		0.1UF 500V 10% X7R 1210 T/R	I 10*
		0.1UF 500V 10% X7R 1210 T/R	I 10*
C371			
C372	127483-1	6300UF 125V 9A LOW ESL 5 PIN	L 10
C373	127483-1	6300UF 125V 9A LOW ESL 5 PIN	L 12
C374		0.1UF 500V 10% X7R 1210 T/R	<u> </u>
C375		0.01UF 500V 5% X7R 1206 T/R	I 7*
C377		0.1UF 500V 10% X7R 1210 T/R	H 12*
C378		0.01UF 500V 5% X7R 1206 T/R	I 10*
C380		0.1UF 500V 10% X7R 1210 T/R	<u> </u>
C382	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	19*
C3B4		0.1UF 500V 10% X7R 1210 T/R	I 11*
C386		0.1UF 500V 10% X7R 1210 T/R	I 12*
C3B7	A11427-104J2	.1UF 50V 5% X7R 0805 T/R	J 9
C388	A11427-104J2	.1UF 50V 5% X7R 0805 T/R	J9
C390	A11427-104J2	.1UF 50V 5% X7R 0805 T/R	J 11
C391	A11427-104J2	.1UF 50V 5% X7R 0805 T/R	J 11
C397	A10434-103JD	.01UF 250V 5%MTL POLY FILM T/A	N 10
C398		.1UF 50V 5% X7R 0805 T/R	0 5*
C400		0.1UF 500V 10% X7R 1210 T/R	I 5*
C401		0.01UF 500V 5% X7R 1206 T/R	I 4*
NTROLLED C	UNCONTROLLE WISE MARKED IN RE DPY. COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A IESE DOCUMENTS	
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
C4Ø3	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	I 6*
C404	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	Н Б*
C407		0.1UF 500V 10% X7R 1210 T/R	I 2*
C408		0.01UF 500V 5% X7R 1206 T/R	I 1*
C409		0.1UF 500V 10% X7R 1210 T/R	I 3*
C410		0.1UF 500V 10% X7R 1210 T/R	I 3*
C413		0.1UF 500V 10% X7R 1210 T/R	I 4*
C414		0.01UF 500V 5% X7R 1206 T/R	I 6*
C416	126551-1	100UF 25V 5.5MM HIGH SMD	КБ
			КБ
C417	126551-1	100UF 25V 5.5MM HIGH SMD	КБ
C418	126551-1	100UF 25V 5.5MM HIGH SMD	
C419	126551-1	100UF 25V 5.5MM HIGH SMD	K 6
C421		.1UF 50V CHIP CAP 10% 0805 X7R	К 6
C422	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	K 4
C423	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	P 4*
C424	A11427-104K2		P 4*
C425	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	0 3*
C426	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	03
C427	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	P 3*
C428	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	P 3*
C429	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	М Э*
C430	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	М З*
C431	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 4*
C432	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 4*
C435	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	H 2*
C436	130636-103J5	0.01UF 500V 5% X7R 1206 T/R	I 3*
C437	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	I 4*
C438	130636-104K6	0.1UF 500V 10% X7R 1210 T/R	1 5*
C440		0.1UF 500V 10% X7R 1210 T/R	I 1*
C441		0.1UF 500V 10% X7R 1210 T/R	I 3*
C446	127483-1	6300UF 125V 9A LOW ESL 5 PIN	L 4
C447	127483-1	6300UF 125V 9A LOW ESL 5 PIN	L 2
C449		.1UF 50V 5% X7R 0805 T/R	 J 5
C453	A11427-104J2	.1UF 50V 5% X7R 0805 T/R	J 5
C454	A11427-104J2	.1UF 50V 5% X7R 0805 T/R	J 3
C455	A11427-104J2		J 3
			0 10
C497		.01UF 250V 5%MTL POLY FILM T/A	0 3*
C49B		.1UF 50V 5% X7R 0805 T/R	
C500	103191-1	0.47UF 50V Z5U 1210 T/R	N 1
C501	103191-1	0.47UF 50V Z5U 1210 T/R	
C502		220.PF 50V 10% NPO MLC 0805	<u>N 1</u>
C600	103191-1	0.47UF 50V Z5U 1210 T/R	N 1
C601	103191-1	0.47UF 50V Z5U 1210 T/R	D 1
C602		220.PF 50V 10% NPO MLC 0805	N 1
C700	C 7099-2	0.47UF 250VAC 50-400HZ RFI CAP	<u>E 1</u>
C701	A11427-102K2	.001UF 50V 10% X7R CER CHIP	B B*
C702		OPEN	C 8*
NTROLLED C	UNCONTROLLE WISE MARKED IN RE DPY, CDPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A ESE DOCUMENTS	
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	REPRODUCED, COP		• • •



		PARTS LIST	r
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
D1		INSTALLED ON PREVIOUS ASSEMBLY	F 1
D2		INSTALLED ON PREVIOUS ASSEMBLY	F 5
DЭ		INSTALLED ON PREVIOUS ASSEMBLY	F 11
D4		INSTALLED ON PREVIOUS ASSEMBLY	F 10
D5		INSTALLED ON PREVIOUS ASSEMBLY	F 12
D6		INSTALLED ON PREVIOUS ASSEMBLY	F 12
D7	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	D 4
D8	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	DЗ
D9	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	89
	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	в 9
D10	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	E 4
D11		DIODE, 30V 200MA SCHOTTKY SOT23	89
D12	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	89
D13	126549-1	DIODE, MMBD4148/914 SOT-23 SMT	L 3*
D14	C 9283-0	DIODE, 30V 200MA SCHOTTKY SOT23	88
D15	126549-1		B 11
D16		OPEN	A 8
D17		OPEN	A 4
D18	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	
D19	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	A 3
D22	125255-1	DIODE, ULTRAFAST 200V 1A SMA	<u>H 14</u>
D24	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	0 1
D25	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	0 1
D26	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	89
D27	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	89
D33	C 9283-Ø	DIODE, MMBD4148/914 SOT-23 SMT	C 2
D34	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	L 6
D35	125593-1	DIODE, SCHOTTKY 40V 1A SMA	L 6
D36	125593-1	DIODE, SCHOTTKY 40V 1A SMA	L 7
D37	C 9929-8	TL431ACLP ADJ PREC RENC T/A	мз
D38	C 9929-8	TL431ACLP ADJ PREC RFNC T/A	мз
D43	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	B 10
D44	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	B 7
D45	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	A 4
D100	C 9283-0	DIDDE, MMBD4148/914 SOT-23 SMT	N 13
D101	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 13
D102	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 12
D103	C 9283-0	DIODE, MMBD4148/914 SOT~23 SMT	N 12
D103	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	P 5
D104	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	P 6
	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	P6
D106	· · · · · · · · · · · · · · · · · · ·	DIODE, 30V 200MA SCHOTTKY SDT23	N 5*
D107	126549-1		N 7
D109	C 9929-8	TL431ACLP ADJ PREC RFNC T/A	P 5
D110	C 9283-0	DIDDE, MMBD4148/914 SOT-23 SMT	Р 5 М 5
D120	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	
D121	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 5
D122	С 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 2
D123	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 7
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APPARATL	S FOR THE MANUFA	HOUT PERMISSION. SCALE NONE PROJ ND. MD425DØ SHEE	T 210 OF 48



		PARTS LIST	
REF DES	C P N	DESCRIPTION	MAP LOC.
D124	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	LB
D125	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	LB
D125	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	МВ
D127	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	мв
D128	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 5
D129	125620-1	DIODE, FAST RECOVERY 400V 1A	N 10
D130	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	LB
D131	125593-1	DIODE, SCHOTTKY 40V 1A SMA	K 7
D132	125593-1	DIODE, SCHOTTKY 40V 1A SMA	К 7
			M 5
D133	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	
D134	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	
D138		OPEN	
D139		OPEN	J9
D140		INSTALLED ON PREVIOUS ASSEMBLY	J9
D141		INSTALLED ON PREVIOUS ASSEMBLY	JB
D142		INSTALLED ON PREVIOUS ASSEMBLY	J 11
D143		INSTALLED ON PREVIOUS ASSEMBLY	J 11
D144		OPEN	J 11
D145		OPEN	J 11
D146	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 4
D200	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	0 13
D2Ø1	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	0 13
D202	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	D 12
D203	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	D 12
D204	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	РЗ
D205	C 9283-0	DIODE, MMBD4148/914 SOT~23 SMT	P 4
D206	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	P 4
D207	126549-1	DIDDE, 30V 200MA SCHOTTKY SOT23	N 4*
D209	C 9929-8	TL431ACLP ADJ PREC RENC T/A	P 7
D210	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	РЗ
D222	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 2
D223	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 7
D229	125620-1	DIODE, FAST RECOVERY 400V 1A	P 10
D231	125593-1	DIODE, SCHOTTKY 40V 1A SMA	КБ
D232	125593-1	DIODE, SCHOTTKY 40V 1A SMA	К 6
D238	120000 /	OPEN	J 6
D239		OPEN	J 5
D235 D240		INSTALLED ON PREVIOUS ASSEMBLY	J 5
	h · · · · · · · · · · · · · · · · · · ·	INSTALLED ON PREVIOUS ASSEMBLY	J 5 J 5
D241			
D242		INSTALLED ON PREVIOUS ASSEMBLY	J 2
D243		INSTALLED ON PREVIOUS ASSEMBLY	J 3
D244		OPEN	J 2
D245		OPEN	J 3
D246	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	М З
D500		OPEN	N 1
D600		OPEN	D 1
D700	126549-1	DIODE, 30V 200MA SCHOTTKY SOT23	ВВ
NTROLLED C CLUDING AS	OPY, COPIES OF	RED INK BY CM AS A	
HESE DRAWIN ROPERTY OF HALL NOT B	NGS AND SPECIFIC CROWN INTERNATI E REPRODUCED, CO	DNAL, INC. AND A 126218-	14
	S FOR THE MANUFA S OR DEVICES WIT	TURE OR SALE HOUT PERMISSION. SCALE NONE PROJ NO. MD425DØ SHEE	T 21 DF 48



		PARTS LIST	· · · · · · · · · · · · · · · · · · ·
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
D7Ø1	C 8369-8	1N747A 3.6V 5% ZENER .5W T/A	C 9
E1	102476-1	LED, SMT R/A GREEN	L 1
E2	102477-1	LED, SMT R/A RED	L 1
E3	102477-1	LED, SMT R/A RED	M 1
E4	102476-1	LED, SMT R/A GREEN	К 1
E5	102476-1	LED, SMT R/A GREEN	N 1
EG	102477-1	LED, SMT R/A RED	D 1
E7	102477-1	LED, SMT R/A RED	0 1
FB1	100868-1	FERRITE, 70 OHM 25% 1206 SMT	D 7*
FB2	100868-1	FERRITE, 70 OHM 25% 1206 SMT	E 4*
FB3	100868-1	FERRITE, 70 OHM 25% 1206 SMT	A 4*
HS1	C 9918-1	TO220 VERT CLIP-ON HEATSINK	D 7
		ASM, CE3000 PS PRIMARY HS	F 1
HS2	128009-1		F 10
H53	128010-1	ASM, CE3000 PS DIODE HS	
HS4	128011-1	ASM, CE3000 BCA OUTPUT HS	H 7
HS5	128011-1	ASM, CE3000 BCA OUTPUT HS	H 1
J1	101031-1	.250 FASTON, AUTO INSERTABLE	D 1
J2	101031-1	.250 FASTON, AUTO INSERTABLE	D 1
13	101031-1	.250 FASTON, AUTO INSERTABLE	КВ
J4	101571-1	HDR, 2 POS .1 CTR MTA SHRD	H 14
J5	127563-3	PWA, CE4000 POT BOARD	02
JB	130640-1	HEADER, 3M LATCH 26 PIN .1X.1	Q 2
J7		OPEN	Q 6
ЛВ		OPEN	K 14
19	A10020-34	6-32 X .375 PCB CAPTIVE STUD	K 14
J11	101031-1	.250 FASTON, AUTO INSERTABLE	M B
J12	101031-1	.250 FASTON, AUTO INSERTABLE	NB
J13	101031-1	.250 FASTON, AUTO INSERTABLE	К 11
J14	101031-1	.250 FASTON, AUTO INSERTABLE	К 5
J15	101031-1	.250 FASTON, AUTO INSERTABLE	08
J16	101031-1	.250 FASTON, AUTO INSERTABLE	P 8
J17	101031-1	.250 FASTON, AUTO INSERTABLE	K Z
J18		OPEN	M 14
J19	A10020-34	6-32 X .375 PCB CAPTIVE STUD	L 14
	A10020 34	OPEN	M 1
J20			
J21	404004 4		
J22	101031-1	250 FASTON, AUTO INSERTABLE	E 4
J23	101031-1	.250 FASTON, AUTO INSERTABLE	D 2
J24	127030-1	CONN, 7 PIN RECEPTACLE	A 7
J25	127031-1	CONN, 15 PIN RECEPTACLE	A 10
J26	101031-1	.250 FASTON, AUTO INSERTABLE	C 2
J27	101031-1	.250 FASTON, AUTO INSERTABLE	B 2
J28	101031-1	.250 FASTON, AUTO INSERTABLE	B 2
J29	101031-1	.250 FASTON, AUTO INSERTABLE	B 2
130		OPEN	Q 5
К1	128135-1	RELAY, 30A 250V 12VCDIL PCB MT	C 2
L1	127988-1	CHOKE, 10UH <0.10HM SMT . 3" DIA	I 13
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NTROLLED C CLUDING AS	OPY, COPIES OF T SOCIATED ELECTRO	ED INK BY CM AS A	•
	RENCE ONLY. NGS AND SPECIFIC	ATIONS ARE THE SIZE DWG NO.	
ROPERTY OF	CROWN INTERNATI	ONAL, INC. AND $\Lambda$ 126218-	14
HALL NOT B	E REPRODUCED, CO 5 FOR THE MANUFA	PIED, OR USED	·
		HOUT PERMISSION, SCALE NONE PROJ NO. MD425DØ SHEE	T 22 OF 48



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
L2	128179-1	WIRE, 12AWG JUMPER Ø.8"	E 13
L3	127988-1	CHOKE,10UH <0.10HM SMT .3" DIA	M 2
L4	127988-1	CHOKE,10UH <0.10HM SMT .3" DIA	L 5
L5	128179-1	WIRE, 12AWG JUMPER Ø.8"	F 13
L6	128179-1	WIRE, 12AWG JUMPER 0.8"	F 13
L7	127988-1	CHOKE, 10UH < 0.10HM SMT . 3" DIA	M 2
LB	127988-1	CHOKE, 10UH < 0.10HM SMT . 3" DIA	L 5
L9	128179-1	WIRE, 12AWG JUMPER 0.8"	E 13
L10	128179-1	WIRE, 12AWG JUMPER 0.8"	E 13
L11	128179-1	WIRE, 12AWG JUMPER Ø.8"	E 13
L100	C 5644-7	CHOKE, 33 UH 10% T/R	0 6
L101	131286-1	COIL, 2UH ADJUSTABLE	E M
L102	131285-1	COIL, 1UH ADJUSTABLE	N 10
L102	125600-1	INDUCTOR, 1.01UH 30A AIRCORE	L 13
	125600-1	INDUCTOR, 1.01UH 30A AIRCORE	N 13
L104			K 12
L105	127988-1	CHOKE, 10UH <0.10HM SMT .3" DIA CHOKE, 33 UH 10% T/R	0 4
L200	C 5644-7		P 9
L201	131286-1	COIL, 2UH ADJUSTABLE	
L202	131285-1	COIL, 1UH ADJUSTABLE	P 10 0 14
L203	125600-1	INDUCTOR, 1.01UH 30A AIRCORE	
L204	125600-1	INDUCTOR, 1.01UH 30A AIRCORE	P 13
L205	127988-1	CHOKE, 10UH < 0.10HM SMT . 3" DIA	<u>K 1</u>
Q1		INSTALLED ON PREVIOUS ASSEMBLY	F 3
Q2		INSTALLED ON PREVIOUS ASSEMBLY	F 4
Q3	127169-1	MOSFET, P-CH 50V 150MA SOT-23	С 3
Q4		INSTALLED ON PREVIOUS ASSEMBLY	F 7
Q5		INSTALLED ON PREVIOUS ASSEMBLY	F 7
Q6		INSTALLED ON PREVIOUS ASSEMBLY	F 9
07		INSTALLED ON PREVIOUS ASSEMBLY	F 8
Q8	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	ВЗ
Q9	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	СЗ
Q1Ø	C 7448-1	MMBT3904 CHIP NPN	C 8
Q11	C10421-3	FET, 60V N-CH 2N7002LT1 50T-23	В 3
Q12	C 7448-1	MMBT3904 CHIP NPN	C 8
Q13	C 7448-1	MMBT3904 CHIP NPN	D 1
Q14	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	С 3
Q15	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	C 7
Q16	125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	С 8
Q17	C 744B-1	MMBT3904 CHIP NPN	D 4
Q18	C 744B-1	MMBT3904 CHIP NPN	D 4
Q19		OPEN	D 4
020	C 7448-1	MMBT3904 CHIP NPN	D 1
021	125798-1	TRANSISTOR, MMBT3906LT1 PNP SMT	В 9
022	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	C 8
Q100	C 744B-1	MMBT3904 CHIP NPN	P 6
0101	125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	P 6
0103	C 7448-1	MMBT3904 CHIP NPN	N 2
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NTROLLED C	OPY, COPIES OF T	RED INK BY CM AS A	- <b>I</b>
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
Q104	126616-1	XSISTOR, 100V 2A DRLNGTN DPAK	I 13
Q105	126616-1	XSISTOR, 100V 2A DRLNGTN DPAK	I 14
Q106		INSTALLED ON PREVIOUS ASSEMBLY	J 9
Q107		INSTALLED ON PREVIOUS ASSEMBLY	JB
Q108		INSTALLED ON PREVIOUS ASSEMBLY	J 12
Q109		INSTALLED ON PREVIOUS ASSEMBLY	J 11
Q110		INSTALLED ON PREVIOUS ASSEMBLY	J 7
		INSTALLED ON PREVIOUS ASSEMBLY	J B
0111		INSTALLED ON PREVIOUS ASSEMBLY	J 12
<u>0112</u>			4
0113		INSTALLED ON PREVIOUS ASSEMBLY	J 10
0115	<u>C 744B-1</u>	MMBT3904 CHIP NPN	M 4
0200	C 744B-1	MMBT3904 CHIP NPN	P 4
0201	125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	P 4
Q203	C 7448-1	MMBT3904 CHIP NPN	N 2
Q2Ø6		INSTALLED ON PREVIOUS ASSEMBLY	J 5
Q207		INSTALLED ON PREVIOUS ASSEMBLY	JG
Q208		INSTALLED ON PREVIOUS ASSEMBLY	J 2
Q2Ø9		INSTALLED ON PREVIOUS ASSEMBLY	JЗ
Q210		INSTALLED ON PREVIOUS ASSEMBLY	J 6
Q211		INSTALLED ON PREVIOUS ASSEMBLY	J 4
0212		INSTALLED ON PREVIOUS ASSEMBLY	J 1
Q213		INSTALLED ON PREVIOUS ASSEMBLY	J3
Q215	C 7448-1	MMBT3904 CHIP NPN	мз
Q500	C 7448-1	MMBT3904 CHIP NPN	L 1
0501	C 7448-1	MMBT3904 CHIP NPN	L 1
0600	C 744B-1	MMBT3904 CHIP NPN	N 1
0601	C 744B-1	MMBT3904 CHIP NPN	D 1
0700	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	B 9
Q701	C10421-3	FET, 60V N-CH 2N7002LT1 SOT-23	A 9
Q702	C 9258-2	BS170RLRM N-MOSFET 60V T/A	B 9
0703	125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	D 4
R1	101103-1	PTC, 6.0 OHM 265V	D 2
R2	101103-1	PTC, 6.0 DHM 265V	E 1
R3	C10450-2	.04 OHM 5W 3% WW VERT MNT	
R4	C10450-2	.04 OHM 5W 3% WW VERT MNT	E 2
R5	C10450-2	.04 OHM 5W 3% WW VERT MNT	E 2
R6		10K 1/10W 1% SMD 0805 T/R	<u>C 3</u>
R7		10.5K .10W 1% MF 0805	E 3*
RB		10.5K .10W 1% MF 0805	E 4*
R9		274K .125W 1% CHIP RES T/R	СЗ
R1Ø	A11368-10521	10.5K .10W 1% MF 0805	E 7*
R11	A11368-10521	10.5K .10W 1% MF 0805	E 7*
R12	A11368-24332	243KOHM .125W 1% CHIP RES T/R	A 3
R13	A11368-10521	10.5K .10W 1% MF 0805	E 9*
R14	A11368-10521	10.5K .10W 1% MF 0805	E 8*
R15	A11368-30112	3.01KOHM .125W 1% CHIP RES T/R	BB
R16		OPEN	B 10
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NTROLLED C	UNCONTROLLE WISE MARKED IN RE DPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A IESE DOCUMENTS	<u>.</u>
ESE DRAWIN	NGS AND SPECIFICA CROWN INTERNATIO REPRODUCED, COP	NAL, INC. AND $\Delta$ 126218-	14



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R17	A11371-5R12	5.10HM 0.125W 5% 1206 T/R	E 7*
R18	A11368-24921	24.9K 1/10W 1% SMD 0805 T/R	D 4
R19	A10266-5141	510. KOHM .25W 5% CF T/R	D 2
	C 8982-8	TO-220 XSISTOR HOLDER, PLASTIC	D 2
R1X			E 3
R20	A10266-5141		E 3
R21		158KOHM .1W 1% 0805 T/R	D 2
R22	A10265-45331	453 KOHM 25W 1% MF T/R	E3
R23			 D 3*
R24		121KOHM . 125W 1% CHIP RES T/R	D 3^
R25		681KOHM . 25W 1% MF T/R	D 4
R26		681KOHM . 25W 1% MF T/R	
R27	A10265-39231	392 KOHM . 25W 1% MF T/R	
R28	A10265-39231	392 KOHM . 25W 1% MF T/R	
R29	A11368-33R21	33.2 OHM 1% 0805 RES T/R	СЗ
R2X	C 8982-8	TO-220 XSISTOR HOLDER, PLASTIC	<u>C 2</u>
R30		16.2KOHM .1W 1% 0805 T/R	D 4*
R31	A11368-10021	10K 1/10W 1% SMD 0805 T/R	C 4*
R32	A11368-10R03	10 OHM 0.25W 1% 1210 T/R	E 4
R33	A11368-1R004	1 OHM 0.5W 1% 2010 T/R	E 3*
R34	A11368-1R004	1 OHM 0.5W 1% 2010 T/R	E 4*
R35	A11368-27432	274K .125W 1% CHIP RES T/R	83
R36	A11368-37401	374. OHM 1/10W 1% SMD 0805 T/R	D 4*
R37	A11371-1002	10.0HM 1/BW 5% SMD 1206 T/R	D 4
R38	A11368-40212	4.02KOHM .125W 1% CHIP RES T/R	D 4*
R39		57.6KDHM 0.1W 1% 0805 T/R	D 4*
R4Ø		4.02KOHM .125W 1% CHIP RES T/R	D 4
R41	A11368-20021	20.KOHM .1W 1% CHIP 0805	DЗ
R42	126564-1	300HM 10W 5% VERT THICK FILM	I 14
R43		100 OHM 1% 0805 RES T/R	М 6*
R44	A11371-5R12	5.10HM 0.125W 5% 1206 T/R	E 7*
R45	A11371-5R12	5.10HM 0.125W 5% 1206 T/R	E 8*
R45	A11371-5R12	5.10HM 0.125W 5% 1206 T/R	E 9*
R47	A11368-10021	10K 1/10W 1% SMD 0805 T/R	ΑB
R48	A11371-3005	30 OHM 1W 5% 2512 T/R	B 9
	A11368-82511	B, 25KOHM . 1W 1% CHIP 0805	B B
R49		121KOHM, 0.10W 1% CHIP 0805	С. В*
R50		90.9K, 0.10W 1% MF 0805	СВ
R51	A11368-90921		C 8
R52		15.4K 1/10W 1% SMD 0805 T/R	
R53	A11368-15421	15.4K 1/10W 1% SMD 0805 T/R	
R54	A11371-3005	30 OHM 1W 5% 2512 T/R	
R55		33.2 OHM 1% ØBØ5 RES T/R	83
R56	A11368-10021	10K 1/10W 1% SMD 0805 T/R	B 3*
R57	A11368-27432		B 4
R58	A11368-33R21	33.2 OHM 1% 0805 RES T/R	B 3
R59	A11368-10001	100 OHM 1% 0805 RES T/R	DB
R60	A11368-1R001	1 OHM .1W 1% 0805 T/R	DB
R61	A11368-33R21	33.2 OHM 1% 0805 RES T/R	В 3*
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NTROLLED C	OPY, COPIES OF TH	D INK BY CM AS A	
	NGS AND SPECIFICA	TIONS ARE THE SIZE DWG NO. 126210-	1 /1
ROPERTY OF	CROWN INTERNATIC E REPRODUCED, COP	INAL, INC. AND A A 126218-	14



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R62		200K 0.1W 1% SMD CHIP 0805	AB
R63		100 OHM 1% 0805 RES T/R	M 2*
R65		681KOHM .1W 1% 0805 T/R	B 7
R66		1.KOHM .1W 1% CHIP 0805	B 7
		3.92 KOHM, 1% MF .125W 1206	M 7*
R67	A11368-39212		N 7*
R68			D 7*
R69		3.92 KOHM, 1% MF .125W 1206	U /* P 7*
R7Ø		3.92 KOHM, 1% MF .125W 1206	
R71		100 OHM 1% 0805 RES T/R	М Б*
R72		100.KOHM .1W 1% CHIP 0805	04
R73		1M OHM .1W 1% CHIP 0805	A 3
R74	A11368-60411	6.04KOHM .1W 1% 0805 T/R	L 3*
R75		OPEN	A 11
R76	A11368-10021	10K 1/10W 1% SMD 0805 T/R	B 3
R77	A11368-10021	10K 1/10W 1% SMD 0805 T/R	АЗ
R78	A10265-12731	127 KOHM .25W 1 MF T/R	A 2
R79	A10265-12731	127 KOHM .25W 1 MF T/R	A 2
R80	A11371-B211	820 OHM .1W 5% 0805 T/R	D 4
RB1	A11368-18202	182 DHM .125W 1% 1206 T/R	В 7
RB2	A11368-24921	24.9K 1/10W 1% SMD 0805 T/R	В 3
RB3	A10266-3902	39.0 OHM .5W 5% CF T/R	C 2
RB4		715K Ø.1W 1% 0805 T/R	L 8
R85		4.99K 1/10W 1% SMD 0805 T/R	B 8
RB6	A11371-3905	39 OHM 1W 5% 2512 T/R	I 14*
R87		1. MOHM .125W 5% CHIP RES T/R	Н 13
R88		5.11KOHM .1W 1% 0805 T/R	Н 13
R90		392 KOHM .1W 1% 0805 T/R	0 1*
			B 10
R91		1.KOHM .1W 1% CHIP 0805	
R92		499 OHM .1W 1% 0805 T/R	B 7
R93		10K 1/10W 1% SMD 0805 T/R	
R94		1.KOHM .1W 1% CHIP 0805	<u> </u>
R95		10K 1/10W 1% SMD 0805 T/R	A 7
R98		301 OHM .1W 1% 0805 T/R	A 4*
R99	A11368-49921	49.9KOHM .1W 1% CHIP 0805	B 4
R100	A11368-39224	39.2K 0.5W 1% 2010 T/R	N 13
R1Ø1	A11368-17811	1.78K 0.1W 1% 0805 SMD T/R	P 5*
R102	A11368-10011	1.KOHM .1W 1% CHIP 0805	P 5*
R103	A11368-11021	11K 0.1W 1% 0805 T/R	P 5*
R104	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 5*
R105	A1136B-10021	10K 1/10W 1% SMD 0805 T/R	P 5*
R106		2.0K, 0.10W 1% MF 0805	P 5*
R107		23.2KOHM .1W 1% 0805 T/R	0.6*
R108		24.9K 1/10W 1% SMD 0805 T/R	P 6
R109		7.50K .10W 1% CHIP 0805	06
R110		2320HM .1W 1% 0805 T/R	N 7
R111	127681-1	24.9K 0.5% 1206 THIN FILM T/R	0.6*
		1.KOHM .1W 1% CHIP 0805	0 6
R112	A11368-10011	T. KOHWI, TW TA CHIT 2020	
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NTROLLED C	UNCONTROLLE WISE MARKED IN RE DPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A ESE DOCUMENTS	
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ROPERTY OF	CROWN INTERNATIO REPRODUCED, COP	IED, OR USED A	



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R113	A11368-10011	1,KOHM .1W 1% CHIP 0805	05
R114		2.0K, 0.10W 1% MF 0805	N 6
R115		4.99K 0.1% 1206 THIN FILM T/R	P 5*
		4.99K 0.1% 1206 THIN FILM T/R	P 5*
R116		4.99K 0.1% 1206 THIN FILM T/R	0.6*
R117		4.87K OHM .10W 1% 0805	0 5*
R118			0 5*
R119		8.45K 0.1W 1% 0805 T/R	0 5*
R120		8.45K 0.1W 1% 0805 T/R	P 6*
R121		1.KOHM .1W 1% CHIP 0805	P 6*
R122		1.KOHM .1W 1% CHIP 0805	
R123		1.KOHM .1W 1% CHIP 0805	P 6*
R124		1.KOHM .1W 1% CHIP 0805	P 6*
R125		10K 1/10W 1% SMD 0805 T/R	<u>P 6*</u>
R126		10K 1/10W 1% SMD 0805 T/R	P 6*
R127		10K 1/10W 1% SMD 0805 T/R	P 6*
R128	A1136B-10031	100.KOHM .1W 1% CHIP 0805	<u> </u>
R129	A11368-11011	RES, 1.1KOHM .1W 1% 0805	0 6*
R130	A11368-11011	RES, 1.1KOHM .1W 1% 0805	0 5*
R131		2.0K, 0.10W 1% MF 0805	0.5*
R132		RES, 1.1KOHM .1W 1% 0805	0 5*
R133	A11368-11011	RES, 1.1KOHM .1W 1% 0805	D 6*
R134		2.0K, 0.10W 1% MF 0805	06*
R135		100 OHM 1% 0805 RES T/R	05
R136		100 OHM 1% 0805 RES T/R	05
R137		100 OHM 1% 0805 RES T/R	06
R138		100 DHM 1% 0805 RES T/R	06
R139	A11368-33R21		N 7
R140		1 OHM 0.5W 1% 2010 T/R	N 7
R140		1.07KOHM .1W 1% 0805 T/R	N 6
	126538-1	18 DHM 5W5% VERT THICK FILM	M 11
R142		18 OHM 5W5% VERT THICK FILM	M 11
R143	126538-1	11 OHM 1W 5% 2512 T/R	M 12*
R144	A11371-1105	11 OHM 1W 5% 2512 T/R	M 13*
R145	A11371-1105		N 13*
R146	A11371-1105	11 DHM 1W 5% 2512 T/R	N 12*
R147	A11371-1105	11 OHM 1W 5% 2512 T/R	
R148		1K 0.25W 1% 1210 T/R	M 12
R149	126538-1	1B OHM 5W5% VERT THICK FILM	N 13
R150	126538-1	18 OHM 5W5% VERT THICK FILM	N 13
R151	A11368-10031	100.KOHM .1W 1% CHIP 0805	0 2*
R152		OPEN	N 12
R153		OPEN	N 12
R154	A11368-15031	150K 1/10W 1% SMD 0805 T/R	N 6
R155	A11368-10001	100 OHM 1% 0805 RES T/R	NB
R156	A11368-20031	200K 0.1W 1% SMD CHIP 0805	N 6
R157	A11368-20021	20.KOHM .1W 1% CHIP 0805	ΝБ
R158	A11368-12741	1.27MOHM .1W 1% 0805 T/R	N 6
R159	A11368-51111	5.11K 1/10W 1% SMD 0805 T/R	N 7
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HESE DRAWI	NGS AND SPECIFICA CROWN INTERNATIO	DNAL, INC. AND $\land$	14
HALL NOT E	E REPRODUCED, COP S FOR THE MANUFAC		l
, INC DADI	IS OR DEVICES WITH	NONE ON SALE NONE PROJ NO. MD425DØ SHEET	F 27 OF 48



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R160	C10540-0	10.KOHM TOP ADJUST TRIMMER T/R	М б
R161		2.0K. 0.10W 1% MF 0805	M 7*
R162	A11368-30111	3.01K 1/10W 1% SMD 0805 T/R	M 7*
R163		4.75KOHM 0.10W 1% CHIP 0805	M 7*
R164		5.62KOHM .1W 1% 0805 T/R	N 7*
R165		1.KOHM .1W 1% CHIP 0805	N 7*
R166		1.KOHM .1W 1% CHIP 0805	M 7*
R167		1.KOHM .1W 1% CHIP 0805	N 7*
		44.2K 0.1W 1% 0805 T/R	 N Б*
R168 R169		2.61K 0.1W 1% 0805 T/R	N 6*
R170	C 9779-7	100KOHM 4MM CERMET TRIM SMT TR	N 5
		100.KOHM .1W 1% CHIP 0805	N 6*
R171		100 OHM 1% 0805 RES T/R	N 6*
R172		100 OHM 1% 0805 RES T/R	N 6*
R173		105KOHM .1W 1% 0805 T/R	0 4*
R174		1.91KOHM .1W 1% 0805 T/R	0 4*
R175		1.91KOHM .1W 1% 0605 T/R	0 5*
R176		100.KOHM .1W 1% CHIP 0805	0 5*
R177		1 KOHM 4MM CERMET TRIM SMT T/R	0 5
R178		1.3KOHM .1W 1% 0B05 T/R	0 5
R179		2.55KOHM .1W 1% 0805 T/R	0.5*
R180			0 5*
R181		1.5K 1/10W 1% SMD 0805 T/R 16.2K0HM .1W 1% 0805 T/R	0 5*
R182			0 5*
R1B3		2.21KDHM .1W 1% CHIP 0805	0 5*
R184		B.25KOHM .1W 1% CHIP 0805	0.5*
R185		4.22KOHM .1W 1% 0805 T/R	0 5*
R186		2.55KOHM .1W 1% 0805 T/R	0 5*
R187		6.04KDHM .1W 1% 0805 T/R	P 6*
R188		10K 1/10W 1% SMD 0805 T/R	P 6*
R189		10K 1/10W 1% 5MD 0805 T/R	N 2*
R190	A11371-1842	180.KOHM .125W 5% CHIP RES T/R	N 2*
R191		392 KOHM .1W 1% 0805 T/R 10K 1/10W 1% SMD 0805 T/R	N 2
R192		10K 1/10W 1% SMD 0805 T/R	0 2
R193		20.KOHM .1W 1% CHIP 0805	P 5*
R194		24.9K 0.5% 1206 THIN FILM T/R	0.6*
R195	127681-1		0.6*
R196	127681-1	24.9K 0.5% 1206 THIN FILM T/R	0.6*
R197	127681-1	24.9K 0.5% 1206 THIN FILM T/R	N 12
R198		715K 0.1W 1% 0805 T/R	M 5*
R199		100.KOHM .1W 1% CHIP 0805	D 13
R200		39.2K 0.5W 1% 2010 T/R	P 3*
R201		1.78K 0.1W 1% 0805 SMD T/R	P 3*
R202		1.KOHM .1W 1% CHIP 0805	P 3*
R203	A11368-11021	11K 0.1W 1% 0805 T/R	P 3*
R204		10K 1/10W 1% SMD 0805 T/R	P 3*
R205	A11368-10021		P 3*
R206	A11368-20011	2.0K, 0.10W 1% MF 0805	
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NTROLLED C	UNCONTROLLE WISE MARKED IN RE OPY, COPIES OF TH SOCIATED ELECTROM RENCE ONLY.	D INK BY CM AS A HESE DOCUMENTS NIC REPRODUCTIONS	l
HESE DRAWI ROPERTY OF HALL NOT B	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP	INAL, INC. AND A ZOZIB-	14
5 THE BASI APPARATU	S FOR THE MANUFAC S OR DEVICES WITH	TURE OR SALE DUT PERMISSION. SCALE NONE PROJ NO. MD425D0 SHEET	28 DF 48

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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R207		23.2KOHM .1W 1% 0805 T/R	03*
R208		24.9K 1/10W 1% SMD 0805 T/R	P 4
R2Ø9		7.50K .10W 1% CHIP 0805	04
R210		2320HM .1W 1% 0805 T/R	07
R211	127681-1	24.9K 0.5% 1206 THIN FILM T/R	D 4*
R212		1.KOHM .1W 1% CHIP 0805	
		1.KOHM .1W 1% CHIP 0805	0 4
R213		2.0K, 0.10W 1% MF 0805	N 5
R214			P 3*
R215	127682-1	4.99K Ø.1% 1206 THIN FILM T/R	P 3*
R216	127682-1	4.99K 0.1% 1206 THIN FILM T/R	0.4*
R217	127682-1	4.99K 0.1% 1206 THIN FILM T/R	
R218		4.87K OHM .10W 1% 0805	0 4*
R219		8.45K 0.1W 1% 0805 T/R	0 4*
R220		8.45K 0.1W 1% 0805 T/R	*E O
R221		1.KOHM .1W 1% CHIP 0805	P 4*
R222		1.KOHM .1W 1% CHIP 0805	P 4*
R223		1.KOHM .1W 1% CHIP 0805	P 4*
R224		1.KOHM .1W 1% CHIP 0805	P 4*
R225		10K 1/10W 1% SMD 0805 T/R	P 4*
R226	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 4*
R227	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 4*
R229	A11368-11011	RES, 1.1KOHM .1W 1% 0805	0 4*
R230	A1136B-11011	RES, 1.1KOHM .1W 1% 0805	D 4*
R231	A11368-20011	2.0K, 0.10W 1% MF 0805	D 4*
R232	A11368-11011	RES. 1.1KOHM .1W 1% 0805	0 4*
R233		RES, 1.1KOHM .1W 1% 0805	03*
R234		2.0K, 0.10W 1% MF 0805	0 3*
R235		100 OHM 1% 0805 RES T/R	04
R236		100 OHM 1% 0805 RES T/R	04
R237		100 OHM 1% 0805 RES T/R	03
R238		100 OHM 1% 0805 RES T/R	03
R239		33.2 OHM 1% 0805 RES T/R	
		1 OHM 0.5W 1% 2010 T/R	
R240			0 6
R241		1.07KOHM .1W 1% 0805 T/R	
R242	126538-1	18 OHM 5W5% VERT THICK FILM	P 11
R243	126538-1	18 OHM 5W5% VERT THICK FILM	P 11
R244	A11371-1105	11 DHM 1W 5% 2512 T/R	0 12*
R245	A11371-1105	11 OHM 1W 5% 2512 T/R	0 13*
R246	A11371-1105	11 OHM 1W 5% 2512 T/R	P 13*
R247	A11371-1105	11 OHM 1W 5% 2512 T/R	P 12*
R248		1K 0.25W 1% 1210 T/R	D 12
R249	126538-1	18 OHM 5W5% VERT THICK FILM	0 13
R250	126538-1	18 DHM 5W5% VERT THICK FILM	0 13
R252		OPEN	0 1 2
R253		OPEN	0 12
R254	A11368-15031	150K 1/10W 1% SMD 0805 T/R	06
R255	A11368-10001	100 OHM 1% 0805 RES T/R	06
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NTROLLED C CLUDING AS FOR REFE	UNCONTROLLE WISE MARKED IN RE OPY. COPIES OF TH SOCIATED ELECTROM RENCE ONLY.	D INK BY CM AS A HESE DOCUMENTS NIC REPRODUCTIONS	
	NGS AND SPECIFICA	TIDNS ARE THE SIZE DWG ND. 176719-	1 /
	CROWN INTERNATIO E REPRODUCED, COP		14
	S FOR THE MANUFAC		



		PARTS LIST	
	C.P.N.	DESCRIPTION	MAP LOC.
R256		200K 0.1W 1% SMD CHIP 0805	06
R257		20.KOHM .1W 1% CHIP 0805	06
R258		1.27MOHM .1W 1% 0805 T/R	06
R259		5.11K 1/10W 1% SMD 0805 T/R	<u> </u>
R260		10.KOHM TOP ADJUST TRIMMER T/R	P 7*
R261		2.0K, 0.10W 1% MF 0805	F /*
R262		3.01K 1/10W 1% SMD 0805 T/R	0 7*
R263		4.75KOHM 0.10W 1% CHIP 0805	P 7*
R264		5.62KOHM .1W 1% 0805 T/R	P 7*
R265		1. KOHM . 1W 1% CHIP 0805	0.7*
R266		1. KOHM .1W 1% CHIP 0805	<u>_</u>
R267		1. KOHM . 1W 1% CHIP 0805	N 4*
R268		44.2K 0.1W 1% 0805 T/R	N 4*
R269		2.51K 0.1W 1% 0805 T/R 100KOHM 4MM CERMET TRIM SMT TR	N 3
R270		100.KOHM .1W 1% CHIP 0805	N 4*
R271		100 OHM 1% 0805 RES T/R	N 4*
R272		100 OHM 1% 0805 RES T/R	N 4*
R273		105KOHM 1% 0805 T/R	0 3*
R274 R275		1.91KOHM .1W 1% 0805 T/R	0 3*
R275		1.91KOHM .1W 1% 0805 T/R	0 3*
R270		100.KOHM .1W 1% CHIP 0805	03*
R278	C 9777-1	1 KOHM 4MM CERMET TRIM SMT T/R	03
R279		1.3KOHM .1W 1% 0805 T/R	03
R2BØ		2.55KOHM .1W 1% 0805 T/R	0 3*
R2B1		1.5K 1/10W 1% SMD 0805 T/R	D 3*
R282		16.2KOHM .1W 1% 0805 T/R	O 3*
R283		2.21KDHM .1W 1% CHIP 0805	03*
R2B4		B.25KOHM .1W 1% CHIP 0805	0 3*
R285		4.22KOHM .1W 1% 0805 T/R	D 3*
R286		2.55KOHM .1W 1% 0805 T/R	03*
R287		6.04KOHM .1W 1% 0805 T/R	O 3*
R288	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 4*
R289		10K 1/10W 1% SMD 0805 T/R	P 4*
R290	A11368-49921	49.9KOHM .1W 1% CHIP 0805	O 1
R291		10K 1/10W 1% SMD 0805 T/R	0 1*
R292	A11371-6B14	680 OHM .5W 5% 2010 T/R	M 1
R293	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 1*
R294	A11368-20021	20.KOHM .1W 1% CHIP 0805	P 3*
R295	127681-1	24.9K 0.5% 1206 THIN FILM T/R	D 4*
R296	127681-1	24.9K 0.5% 1206 THIN FILM T/R	D 4*
R297	127681-1	24.9K 0.5% 1206 THIN FILM T/R	0 4*
R298	A11368-71531	715K 0.1W 1% 0805 T/R	0 12
R299	A11368-10031	100.KDHM .1W 1% CHIP 0805	N 3*
R300	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	L 3*
R301		OPEN	P 5*
R302	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	L 3*
NTROLLED CLUDING A	UNCONTROLLE RWISE MARKED IN RE COPY, COPIES OF TH SSOCIATED ELECTROM ERENCE ONLY.	ED INK BY CM AS A HESE DOCUMENTS	
HESE DRAW	INGS AND SPECIFICA F CROWN INTERNATIC BE REPRODUCED, COP	NAL, INC. AND A 120218-	14
		TURE OR SALE	



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R303		619 DHM .125W 1% CHIP RES T/R	M 5*
R304		4.99K 1/10W 1% SMD 0805 T/R	M 5*
R305		4.99K 1/10W 1% SMD 0805 T/R	M 5*
R307		49.9KDHM .1W 1% CHIP 0805	0 1
R308		10K 1/10W 1% 5MD 0805 T/R	0 1*
R309		75K OHM . 25W 1% 1210	M 4*
R310		1.3KOHM .1W 1% 0805 T/R	M 4*
		33.2KOHM 0.25W 1% 1210 T/R	M 4*
R311			M 4*
R312		82.5K 0.10W 1%CHIP 0805	
R313		392 KOHM . 1W 1% 0805 T/R	
R314		4.99K 1/10W 1% SMD 0805 T/R	M 4
R315		75K OHM . 25W 1% 1210	м э*
R316	A11368-13011	1.3KOHM .1W 1% 0805 T/R	М 3*
R317	A11371-3041	300.KOHM .1W 5% CHIP 0805	L 8
R318	A11368-30121	30.1K, 0.10W 1% MF 0805	LB
R319	A11368-63411	6.34K 0.10W 1% CHIP 0805	М 3*
R320	A11368-75023	75K OHM .25W 1% 1210	M 4*
R321	A1136B-10021	10K 1/10W 1% SMD 0805 T/R	L 8
R322	A11368-11021	11K Ø.1W 1% Ø805 T/R	LB
R323	A11368-20031	200K 0.1W 1% SMD CHIP 0805	LB
R324	A11368-56211	5.62KOHM .1W 1% 0805 T/R	I 13
R325	126564-1	300HM 10W 5% VERT THICK FILM	I 14
R326	A11368~10021	10K 1/10W 1% SMD 0805 T/R	A 4
R327	A11368-10021	10K 1/10W 1% SMD 0805 T/R	AЗ
R328	<u> </u>	DPEN	МВ
R329	A11368-10021	10K 1/10W 1% SMD 0805 T/R	LВ
R330		200K 0.1W 1% SMD CHIP 0805	LB
R331		B.45K 0.1W 1% 0805 T/R	LB
R332		5.62KOHM .1W 1% 0805 T/R	I 13
R333	A11371-3905	39 DHM 1W 5% 2512 T/R	I 14*
R334	A11371-3905	39 DHM 1W 5% 2512 T/R	I 14*
R335		200K 0.1W 1% SMD CHIP 0805	LB
		19.6K DHM .1W 1% 0805 T/R	L B
R336			
R337		10K 1/10W 1% SMD 0805 T/R	
R338		7.50K .10W 1% CHIP 0805	BB
R339		6.04KOHM .1W 1% 0805 T/R	L 11*
R340		100.KOHM .1W 1% CHIP 0805	M 4*
R341		1.KOHM .1W 1% CHIP 0805	N 4*
R342		20.KOHM .1W 1% CHIP 0805	N 4*
R343		619.0HM 1/10W 1% 5MD 0805 T/R	N 2*
R344	A11368-10041	1M OHM .1W 1% CHIP 0805	N 2*
R345	A11368-90921	90.9K, 0.10W 1% MF 0805	N 2*
R346	A11371-5141	510.KOHM .1W 5% CHIP 0805	N 2*
R347	A11368-33231	332K 0.1W 1% 0805 T/R	D 2*
R34B	A11368-22111	2.21KOHM .1W 1% CHIP 0805	P 2
R349	A11368-14031	140KOHM .1W 1% 0805 T/R	P 2
R350	A11368-22111	2.21KOHM .1W 1% CHIP 0805	P 2
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<u> </u>			1
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NTROLLED C	UNCONTROLLE WISE MARKED IN RE OPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A HESE DOCUMENTS	
ESE DRAWI	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP	NAL, INC. AND $\Delta$ 126218-	14
	S FOR THE MANUFAC		



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R351	A11368-14031	140KOHM .1W 1% 0805 T/R	P 2
R352	A11368-75R01	75.0HM 1/10W 1% 5MD 0805 T/R	КЭ
R353	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	К 9
R354	A11368-10011	1.KOHM .1W 1% CHIP 0805	К 9
R355	A11371-3005	30 OHM 1W 5% 2512 T/R	К В*
R356	A11371-3005	30 OHM 1W 5% 2512 T/R	К 8*
R357	A11371-1104	RES 11.0 OHM .5W SMT	J 9
R358	A11371-3005	30 OHM 1W 5% 2512 T/R	к 9*
R359	A11371-3005	30 OHM 1W 5% 2512 T/R	К 9*
R360	A11371-1104	RES 11.0 OHM . 5W SMT	JB
	126901-1	RES 02 OHM 5W 3% VERTICAL	<u> </u>
R361			N B
R362	126901-1	RES, .02 OHM 5W 3% VERTICAL	
R363	126564-1	300HM 10W 5% VERT THICK FILM	N 10
R364	126564-1	300HM 10W 5% VERT THICK FILM	N 9
R365	A11371-1104	RES 11.0 OHM . 5W SMT	J 12
R366	A11371-3005	30 OHM 1W 5% 2512 T/R	K 12*
R367	A11371-3005	30 OHM 1W 5% 2512 T/R	К 12*
R368	A11371-1104	RES 11.0 DHM .5W SMT	J 1Ø
R369	A11371-3005	30 OHM 1W 5% 2512 T/R	K 11*
R37Ø	A11371-3005	30 OHM 1W 5% 2512 T/R	K 11*
R371	A11368-10011	1.KOHM .1W 1% CHIP 0805	К 11
R372	A11371-1104	RES 11.0 OHM .5W SMT	K 12
R373	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	К 11
R374	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	К 11
R375	125539-1	1 OHM 0.25W 5% 1206	H 9*
R376	125539-1	1 OHM 0.25W 5% 1206	H 7*
R377	125539-1	1 OHM 0.25W 5% 1206	H 12*
R378	125539-1	1 OHM 0.25W 5% 1206	H 10*
R379	125539-1	1 OHM 0.25W 5% 1206	Н 9*
R380	125539-1	1 OHM 0.25W 5% 1206	H 12*
R381	125539-1	1 OHM 0.25W 5% 1206	H 8*
R382	125539-1	1 OHM 0.25W 5% 1206	H 11*
R383	126901-1	RES, .02 OHM 5W 3% VERTICAL	M B
		RES, .02 OHM 5W 3% VERTICAL	N B
R384	126901-1		N 6*
R385	A11368-10041	1M OHM .1W 1% CHIP 0805	
R386	A11368-10031	100.KOHM .1W 1% CHIP 0805	N 6*
R387	A11371-1104	RES 11.0 OHM .5W SMT	J 7
R388		OPEN	P 5*
R389		75.0HM 1/10W 1% 5MD 0805 T/R	N 6*
R390	A11368-75RØ1	75.0HM 1/10W 1% SMD 0805 T/R	N 6*
R391	A11368-75RØ1	75.0HM 1/10W 1% SMD 0B05 T/R	N 5*
R392	A11368-75RØ1	75.0HM 1/10W 1% SMD 0B05 T/R	N 5*
R393	A11371-1104	RES 11.0 DHM .5W SMT	M 7
R394	A11371-1104	RES 11.0 OHM .5W SMT	M 7
R395	A11368-10021	10K 1/10W 1% SMD 0805 T/R	N 6*
R396	A11368-44221	44.2K 0.1W 1% 0805 T/R	P 5*
R397	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 6*
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NTROLLED C CLUDING AS	UNCONTROLLE WISE MARKED IN RE OPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A HESE DOCUMENTS	
HESE DRAWIN	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP	NAL, INC. AND $\Delta$ 126218-	14
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PARTS LIST						
REF DES	C.P.N.	DESCRIPTION	MAP LOC.			
R398		2.80K0HM .10W 1% MF 0805	P 5*			
R399			05*			
		23.2KOHM .1W 1% 0805 T/R				
R400		100.KOHM .1W 1% CHIP 0805				
R401	A11371-6B14	680 OHM . 5W 5% 2010 T/R	0 1			
R403		10K 1/10W 1% SMD 0805 T/R	<u>C 8</u>			
R404		20.KOHM .1W 1% CHIP 0805	A 7			
R405		100.KOHM .1W 1% CHIP 0805	AB			
R407		1.5KOHM .25W 1% 1210 T/R	К 1			
R4Ø8	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 4*			
R409		OPEN	B 9			
R410	A11368-49901	499 OHM .1W 1% 0805 T/R	N 2			
R411	A11368-33223	33.2KOHM 0.25W 1% 1210 T/R	M 2*			
R412	A11368-82521	82.5K 0.10W 1%CHIP 0805	M 2*			
R414	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	M 2			
R415		OPEN	P 4*			
R417	A11371-3041	300.KOHM .1W 5% CHIP 0805	M 3*			
R418	A11368-30121	30.1K, 0.10W 1% MF 0805	N 3*			
R419	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A B			
R420	A11368-20011	2.0K, 0.10W 1% MF 0805	B 8			
R422		OPEN	P 4*			
R424	A11368-22621	22.6K OHM .1W 1% 0805 T/R	D 4			
R425	A11368-49921	49.9KOHM .1W 1% CHIP 0805	A 4			
R426		OPEN	A 10			
R427		OPEN	B 10			
R42B		OPEN	B 10			
R429		OPEN	B 10			
R430		OPEN	B 11			
R431		OPEN	B 11			
R432		OPEN	B 11			
R433		OPEN	B 11			
R434	A11368-10021	10K 1/10W 1% 5MD 0805 T/R	A 7			
R435		2.0K, 0.10W 1% MF 0805	A 7			
R436		499 OHM .1W 1% 0805 T/R	0 2			
R437		100 OHM 1% 0805 RES T/R	 C 3*			
R43B		100 OHM 1% 0805 RES T/R	D 3*			
R439		100 OHM 1% 0805 RES T/R	C 7*			
R440		100.KOHM .1W 1% CHIP 0805	М 3*			
R441		1.KOHM .1W 1% CHIP 0805	N 3*			
R442		20.KOHM .1W 1% CHIP 0805	N 3*			
R442		1M OHM .1W 1% CHIP 0805	N 2*			
R443		619.0HM 1/10W 1% SMD 0805 T/R	N 2*			
R445		90.9K, 0.10W 1% MF 0805	N 2*			
R446	A11371-5141	510.KOHM .1W 5% CHIP 0805	N 2*			
R447	A11368-33231	332K 0.1W 1% 0805 T/R	0 2*			
R448	A11368-10021	10K 1/10W 1% SMD 0805 T/R	<u> </u>			
R449	A11368-42211	4.22KOHM .1W 1% 0805 T/R	<u> </u>			
R450	A11368-10011	1.KOHM .1W 1% CHIP 0805	С 8			
UNCONTROLLED ESS OTHERWISE MARKED IN RED INK BY CM AS A ITROLLED COPY. COPIES OF THESE DOCUMENTS LUDDING ASSOCIATED ELECTRONIC REPRODUCTIONS						
E FOR REFE HESE DRAWIN ROPERTY OF	RENCE ONLY. NGS AND SPECIFICA CROWN INTERNATIO	TIONS ARE THE SIZE DWG NO. NAL, INC. AND A 126218-	14			
HALL NOT BE	E REPRODUCED, COP 5 FOR THE MANUFAC	IED, OR USED (1)	• •			



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R451	A10266-3041	300.KOHM .25W 5% CF T/R	A 2
R452	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	К 5
R453	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	К 5
R454	A11368-10011	1.KOHM .1W 1% CHIP 0805	К 5
R455	A11371-3005	30 OHM 1W 5% 2512 T/R	К Б*
R456	A11371-3005	30 OHM 1W 5% 2512 T/R	К 6*
R457	A11371-1104	RES 11.0 OHM . 5W SMT	J 4
R45B	A11371-3005	30 OHM 1W 5% 2512 T/R	К 5*
R459	A11371-3005	30 OHM 1W 5% 2512 T/R	K 5*
R460	A11371-1104	RES 11.0 OHM .5W SMT	J 6
R461	126901-1	RES, .02 DHM 5W 3% VERTICAL	ОВ
R462	126901-1	RES, .02 DHM 5W 3% VERTICAL	P B
		300HM 10W 5% VERT THICK FILM	0 10
R463	126564-1		0 9
R464	126564-1	300HM 10W 5% VERT THICK FILM	
R465	A11371-1104	RES 11.0 OHM .5W SMT	J 2
R466	A11371-3005	30 OHM 1W 5% 2512 T/R	K 2*
R467	A11371-3005	30 OHM 1W 5% 2512 T/R	K 2*
R468	A11371-1104	RES 11.0 OHM .5W SMT	J 3
R469	A11371-3005	30 OHM 1W 5% 2512 T/R	К Э*
R470	A11371-3005	30 OHM 1W 5% 2512 T/R	К 3*
R471	A11368-10011	1.KOHM .1W 1% CHIP 0805	K Z
R472	A11371-1104	RES 11.0 OHM .5W SMT	К 1
R473	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	КЗ
R474	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R	КЗ
R475	125539-1	1 OHM 0.25W 5% 1206	H 5*
R476	125539-1	1 OHM 0.25W 5% 1206	Н Б*
R477	125539-1	1 OHM 0.25W 5% 1206	H 2*
R478	125539-1	1 OHM 0.25W 5% 1206	Н 3*
R479	125539-1	1 OHM 0.25W 5% 1206	H 4*
R480	125539-1	1 OHM 0.25W 5% 1206	H 2*
R481	125539-1	1 OHM 0.25W 5% 1206	H 5*
R482	125539-1	1 OHM 0.25W 5% 1206	Н 3*
R483	126901-1	RES02 OHM 5W 3% VERTICAL	0.8
R484	126901-1	RES, .02 DHM 5W 3% VERTICAL	P 8
R485		1M OHM .1W 1% CHIP 0805	N 4*
R486		100.KOHM .1W 1% CHIP 0805	N 4*
R487	A10266-3041	300.KOHM .25W 5% CF T/R	B 6
R488		1.78K 0.1W 1% 0805 SMD T/R	89
R489		75.0HM 1/10W 1% SMD 0805 T/R	N 4*
		75.0HM 1/10W 1% SMD 0805 T/R	N 3*
R490		75.0HM 1/10W 1% SMD 0805 T/R	N 3*
R491			
R492		75.0HM 1/10W 1% SMD 0805 T/R	N 4*
R493	A11371-1104	RES 11.0 OHM .5W SMT	M 7
R494	A11371-1104	RES 11.0 OHM .5W SMT	M 7
R495	A11368-10021	10K 1/10W 1% SMD 0805 T/R	N 4*
R496	A11368-44221	44.2K 0.1W 1% 0805 T/R	P 3*
R497	A11368-10021	10K 1/10W 1% SMD 0805 T/R	P 4*
NTROLLED C	UNCONTROLLE WISE MARKED IN RE OPY. COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A ESE DOCUMENTS	
ESE DRAWIN	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP	NAL, INC. AND A 126218-	14
	S FOR THE MANUFAC		



	r	PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R498	A11368-28011	2.80KOHM .10W 1% MF 0805	<u>P 3*</u>
R499	A11368-23221	23.2KOHM .1W 1% 0805 T/R	04*
R500	A11368-49931	499KOHM .1W 1% 0805 T/R	C 8*
R501	A11371-0R02	0. OHM .125W 5% CHIP RES T/R	E 7
9502	A10266-5141	510. KOHM . 25W 5% CF T/R	D 2
R503	A10266-5141	510. KOHM . 25W 5% CF T/R	D Z
7504		OPEN	D 3
7505	A10266-2751	2.7 MOHM .25W 5% CF T/R	В 5
R506	A10266-2441	240. KOHM .25W 5% CF T/R	D 14
R507	A10266-2441	240. KOHM . 25W 5% CF T/R	C 14
7508	A11371-3905	39 OHM 1W 5% 2512 T/R	J 14*
7509	A11371-3905	39 OHM 1W 5% 2512 T/R	J 14*
R510		2.0K, 0.10W 1% MF 0805	D 4
R511		7.87K OHM 0.10W 1% 0805 T/R	D 4
		1.2KOHM 1/BW 5% SMD 1206 T/R	D 4
R512		20.KOHM 1/ 0% 3/ 3/ 0/ 200 7/1	D 4
R513		13KOHM .1W 5% 0805 T/R	D 4
R514		3.01K 1/10W 1% SMD 0805 T/R	D 4
R515	A11306-30111	OPEN	D 4*
R516	A11268-20021	20.KOHM .1W 1% CHIP 0805	M 4
R517		3.01K 1/10W 1% SMD 0805 T/R	M 4
R518		20.KOHM .1W 1% CHIP 0805	мб
R519		20.KOHM .1W 1% CHIP 0805	N 5
R522		20.KOHM .1W 1% CHIP 0805	A 9*
R523		20.KOHM .1W 1% CHIP 0805	A 9*
R524		274K . 125W 1% CHIP RES T/R	A 9*
R525		3.92 KOHM, 1% MF .125W 1206	A 9
R526		1.78K 0.1W 1% 0805 SMD T/R	89*
R527		1.KOHM .1W 1% CHIP 0805	в 9
R528			B 9*
R529		1.KOHM .1W 1% CHIP 0805 3.01K 1/10W 1% SMD 0805 T/R	B 9*
R530			С в*
R531		30.1K, 0.10W 1% MF 0805	A 3
R532	ATT368-10001	100 OHM 1% 0805 RES T/R	A 3*
R533	44250 40024		A 3
R534		49.9KOHM .1W 1% CHIP 0805	M 5
R535		20.KOHM .1W 1% CHIP 0805	M 5*
R536		5.62KOHM .1W 1% 0805 T/R	M 5*
R537		5.62KOHM .1W 1% 0805 T/R	M 5
R538		20.KOHM .1W 1% CHIP 0805	D B
R539		4.99K 1/10W 1% SMD 0805 T/R	D B*
R540		15.0K, 0.10W 1% MF 0805	
R541	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 8 D 8*
R542		OPEN	
R543		200K 0.1W 1% SMD CHIP 0805	D B*
R544	A11368-56211		<u> </u>
R545		12.1KOHM .1W 1% 0805 T/R	СВ
R546	A11368-49911	4.99K 1/10W 1% SMD 0805 T/R	DB
			+
NTROLLED C CLUDING AS FOR REFE	COPY, COPIES OF TH SSOCIATED ELECTRO RENCE ONLY.	ED INK BY CM AS A HESE DOCUMENTS NIC REPRODUCTIONS	
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PARTS LIST							
REF DES	C.P.N.	DESCRIPTION	MAP LOC.				
R547	A11371-0R02	Ø. OHM .125W 5% CHIP RES T/R	E 7				
R548	A11371-0R02	0. OHM .125W 5% CHIP RES T/R	E 9				
		0. OHM .125W 5% CHIP RES T/R	E 8				
R549	A11371-0R02	10K 1/10W 1% SMD 0805 T/R	M 2*				
R550			<u> </u>				
R557		20.KOHM .1W 1% CHIP 0805	N 1*				
R558		392 KOHM . 1W 1% 0805 T/R	<u> </u>				
R559	A1136B-49902	499 OHM .125W 1% 1206 T/R	N 1*				
R560		OPEN	<u>N_//*</u>				
R561		20.KOHM .1W 1% CHIP 0805					
R562		2.7 KOHM .5W 5% 2010 T/R	<u> </u>				
R563	A11368-10021	10K 1/10W 1% SMD 0805 T/R					
R564		OPEN	<u> </u>				
R565		20.KOHM .1W 1% CHIP 0805	<u>N 2*</u>				
R566	A11368-20021	20.KOHM .1W 1% CHIP 0805	<u> </u>				
R567		2.7 KOHM .5W 5% 2010 T/R	<u> </u>				
R657		20.KOHM .1W 1% CHIP 0805	N 1				
R658		392 KOHM .1W 1% 0805 T/R	N 1*				
R659	A11368-49902	499 OHM .125W 1% 1206 T/R	N 1*				
R660		OPEN	<u>N 1</u> *				
R661	A11368-20021	20.KOHM .1W 1% CHIP 0805	N 1*				
R662		2.7 KOHM .5W 5% 2010 T/R	N 1				
R663	A11368-10021	10K 1/10W 1% SMD 0805 T/R	N 1*				
R664		OPEN	D 1*				
R665	A11368-20021	20.KOHM .1W 1% CHIP 0805	0 2*				
R666		20.KOHM .1W 1% CHIP 0805	D 1*				
R667		2.7 KOHM .5W 5% 2010 T/R	D 1				
R700		1.5KOHM .25W 1% 1210 T/R	В 9				
R701		100 OHM 1% 0805 RES T/R	8 8*				
	A11308-10081	470KOHM .1W 5% CHIP 0805	B 8*				
R702		12.1KOHM .1W 1% 0805 T/R	B 8				
R703		200K 0.1W 1% SMD CHIP 0805	B 8*				
R704		2K OHM . 25W 5% 1210 T/R	B 9				
R705	A11371-2023	2K OHM . 25W 5% 1210 T/R	B 9				
R706	A11371-2023		J B				
R707	A11371-0R04	0 OHM 1/2W 5% 2010 T/R					
R7Ø8	A11371-0R04	0 OHM 1/2W 5% 2010 T/R	<u>5_5</u>				
R709		10 OHM 0.25W 1% 1210 T/R					
R710		10 OHM 0.25W 1% 1210 T/R	L 6				
R711	128184-3	NTC, 20K #8 PRI SEC ISO	E 13				
R712		10K 1/10W 1% SMD 0805 T/R	<u>E 12</u>				
R713	127517-2	NTC, 20K J 10%	<u> </u>				
R714		4.87K OHM .10W 1% 0805	<u>C 12</u>				
R715	A11368-22131	221 KDHM .1W 1% 0805 T/R	D 3*				
R716	A11368-36521	36.5K OHM 0.1W 1% 0805 T/R	D 3*				
R717	A11368-35712	3.57KOHM .125W 1% CHIP RES T/R	B 6				
R718	A11371-0R04	2 OHM 1/2W 5% 2010 T/R J					
R719	A11371-0R04	0 DHM 1/2W 5% 2010 T/R J 1					
R720	A11371-1104	RES 11.0 DHM . 5W SMT J 10					
R721	A11371-1104	RES 11.0 OHM .5W SMT	J 12				
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APPARATU	S OR DEVICES WITH	DUT PERMISSION. SCALE NONE PROJ NO. MD425DØ SHEET	36 OF 48				



PEF DES C. P. N.         DESCRIPTION         MAP LOC.           R722         A11371-0R01         Ø OrM Ø. W CHIP 0005         C B           R724         OPEN         C B           R726         A11371-0R01         Ø OrM Ø. W CHIP 0005         C B           R724         OPEN         C B         C B           R726         A11360-10021         128.100HM. JW 1X CHIP 0005         N 5           R721         A11360-10021         108.110W 1X CHIP 0005         N 5           R729         A11360-10021         108.1/10W 1X SMD 0005 T/R         P 5*           R799         A11360-10021         108.1/10W 1X SMD 0005 T/R         P 5*           R000         A11360-49911         4.98.1/10W 1X SMD 0005 T/R         B 3           R001         A11360-49911         4.98.1/10W 1X SMD 0005 T/R         B 3           R002         A11360-49911         4.98.1/10W 1X SMD 0005 T/R         B 3           R003         A11360-49911         4.98.1/10W 1X SMD 0005 T/R         B 3           R004         A11371-0R04         0.0HM 1/2W 5X 2010 T/R         J 5           R004         A11371-0R04         0.0HM 1/2W 5X 2010 T/R         J 5           R016         A11371-0R04         0.0HM 1/2W 5X 2010 T/R         J 3	[	· · · · · · · · · · · · · · · · · · ·	PARTS LIST	
R722       A11371-1184       RES 11.0       DVM LTP 0805       J 9         R723       A11371-0801       0 OHM 0.1W CHIP 0805       C 6         R730       A11360-2111       2.21KOHM .1W 1X CHIP 0805       O 5*         R731       A11360-2211 12.21KOHM .1W 1X CHIP 0805       M 4         R732       A11360-2211 12.21KOHM .1W 1X CHIP 0805       M 4         R739       A11360-10021 10K 1/10W 1X SMD 0805 T/R       P 5*         R799       A11360-10021 10K 1/10W 1X SMD 0805 T/R       B 3         R001       A11360-10021 10K 1/10W 1X SMD 0805 T/R       B 3         R002       A11360-10021 10K 1/10W 1X SMD 0805 T/R       B 3         R005       A11360-10021 10K 1/10W 1X SMD 0805 T/R       B 3         R005       A11360-10021 10K 1/10W 1X SMD 0805 T/R       B 3         R005       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 5         R006       A11371-10R4       0 OHM 1/2W 5X 2010 T/R       J 5         R007       A11371-10R4       RES 11.0 OHM .5W SMT       J 4         R010       A11371-1184       RES 11.0 OHM .5W SMT       J 3         R013       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 3         R014       A11371-104       RES 11.0 OHM .5W SMT       J 3         R0	REF DES	C. P. N.		MAP LOC.
R724         OPEN         C B+           R730         A1136B-10031         100.KDHM.1W1X_CHIP 0005         O.5*           R731         A1136B-10031         12.2IKOHM.1W1X_CHIP 0005         M.4           R732         A1136B-10031         100.KDHM.1W1X_CHIP 0005         N.5           R798         A1136B-10021         10K 1/18W1X_SMD 0005 T/R         P.5*           R804         A1136B-10021         10K 1/18W1X_SMD 0005 T/R         B.3           R801         A1136B-49911         4.99K1/18W1X_SMD 0005 T/R         B.3           R802         A1136B-49911         4.99K1/18W1X_SMD 0005 T/R         B.3           R805         A1136B-49911         4.99K1/18W1X_SMD 0005 T/R         B.3           R805         A11371-0004         0.0HM 1/2W 5X 2010 T/R         C.7           R807         A11371-1004         0.0HM 1/2W 5X 2010 T/R         J.5           R808         A11371-1004         0.0HM 1/2W 5X 2010 T/R         J.5           R809         A11371-1104         RES 11.0         0HM.5W SMT         J.4           R811         A11371-1104         RES 11.0         0HM 5W SMT         J.3           R813         A1136B-2021         10.0HM 1/2W 5X 2010 T/R         J.2           R814         A11371-1044         <				1
11.25       0.5*       0.5*         R730       A11368-10031       102.KDHM. 1W 1X CHIP 0805       M.4         R731       A11368-12011       2.21KDHM. 1W 1X CHIP 0805       M.5         R732       A11368-12021       10K 1/10W 1X SMD 0805       P.5*         R798       A11368-12021       12K 1/10W 1X SMD 0805       T/A       P.5*         R800       A11368-25712       25.KDHM. 1W 1X CHIP 0805       T/A       P.5*         R800       A11368-45911       4.95K 1/10W 1X SMD 0805       T/A       P.5*         R801       A11368-45911       4.95K 1/10W 1X SMD 0805       T/A       P.5*         R802       A11368-49911       4.95K 1/10W 1X SMD 0805       T/A       P.5*         R802       A11368-49911       4.95K 1/10W 1X SMD 0805       T/A       D.5*         R802       A11368-49911       4.95K 1/10W 1X SMD 0805       T/A       J.5         R803       A11371-1084       R6 511.0 DHM SW SMT       J.4       J.5         R810       A11371-1184       RES 11.0 DHM SW SMT       J.3       J.3         R811       A11371-1184       RES 11.0 DHM SW SMT       J.3       J.3         R812       A11368-2021       10.0K MM .1W 1X CHIP 0805       M.2       J.8	R723	A11371-0R01	Ø OHM Ø.1W CHIP Ø805	СВ
R730       A11966-10031       100.KOHM. 1W 1% CHIP 0805       M.4         R731       A11368-10021       11% L/10W 1% CHIP 0805       M.4         R732       A11368-10021       11% L/10W 1% SAD 0805 T/R       P.5%         R798       A11368-10021       10K 1/10W 1% SAD 0805 T/R       P.5%         R000       A11368-10021       10K 1/10W 1% SAD 0805 T/R       P.5%         R001       A11368-40911       4.9% 1/10W 1% SAD 0805 T/R       P.3         R002       A11368-40911       4.9% 1/10W 1% SAD 0805 T/R       P.3         R002       A11368-40911       4.9% 1/10W 1% SAD 0805 T/R       P.3         R002       A11368-40911       4.9% 1/10W 1% SAD 0805 T/R       P.3         R002       A11371-0804       0.0HM 1/2W 5% 2210 T/R       J.5         R004       A11371-1084       RES 11.0 0HM 5W SMT       J.4         R101       A11371-1104       RES 11.0 0HM 5W SMT       J.3         R113       A11371-1104       RES 11.0 0HM 5W SMT       J.3         R114       A11371-1104       RES 11.0 0HM 5W SMT       J.3         R113       A11371-1104       RES 11.0 0HM 5W SMT       J.3         R113       A11371-1104       RES 11.0 0HM 5W SMT       J.3         R113       A1136	B724			C 8*
P731       A11368-22111       2.21KOHM. 1.W 1.X CHIP 0805       M.4         P732       A11368-10041       1M OHM. 1.W 1.X CHIP 0805       N.5         R796       A11368-10041       10K 1/10W 1.X SMD 0805 T/R       P.5*         R796       A11368-10021       10K 1/10W 1.X SMD 0805 T/R       B.3         R001       A11368-10021       10K 1/10W 1.X SMD 0805 T/R       B.3         R011       A11368-49911       4.99K 1/10W 1.X SMD 0805 T/R       B.3         R022       A11368-40911       4.99K 1/10W 1.X SMD 0805 T/R       B.3         R05       A11368-40911       4.95K 1/10W 1.X SMD 0805 T/R       C.7         R05       A11371-0R04       0.0HM 1/2W 5X 2010 T/R       J.5         R080       A11371-0R04       0.0HM 1/2W 5X 2010 T/R       J.5         R080       A11371-10R04       RES 11.0 OHM .5W SMT       J.6         R11       A11371-1104       RES 11.0 OHM .5W SMT       J.3         R13       A11368-10041       N OHM 1/2W 5X 2010 T/R       J.3         R13       A11368-10041       N OHM 1/2W 5X 2010 T/R       J.3         R13       A11371-8704       0.0HM 1/2W 5X 2010 T/R       J.3         R13       A11368-10041       N OHM .1W 1X CHIP 0805       N.4         R630 <td></td> <td>A11368-10031</td> <td></td> <td>0.5*</td>		A11368-10031		0.5*
R732       A11368-10041       1M OPM .1W 1X CHIP 0805       N 5         R798       A11368-10021       10K 1/10W 1X SMD 0805 T/R       P 5*         R800       A11368-221       26.7KOHM .1W 1X 0605 T/R       P 5*         R801       A11368-10021       10K 1/10W 1X SMD 0805 T/R       B 3         R801       A11368-49011       4.99K 1/10W 1X SMD 0805 T/R       B 3         R802       A11368-49011       4.99K 1/10W 1X SMD 0805 T/R       B 3         R805       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 5         R807       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 5         R808       A11371-10R04       0 OHM 1/2W 5X 2010 T/R       J 4         R810       A11371-10R04       0 OHM 1/2W 5X 2010 T/R       J 4         R811       A11371-1184       RES 11.0 OHM .5W SMT       J 1         R812       A11371-1184       RES 11.0 OHM .5W SMT       J 3         R813       A11371-1184       RES 11.0 OHM .5W SMT       J 3         R814       A11371-10R04       0 OHM 1/2W 5X 2010 T/R       J 3         R813       A11371-10R04       0 OHM 1/2W 5X 2010 T/R       J 2         R814       A11371-10R04       0 OHM 1/2W 5X 2010 T/R       J 3         R813       A11				M 4
PT39       A11388-18021       10k 1/10w 1X SMD 0805 T/R       P 5*         R799       A11386-26721       25.7K0HM. 1W 1X 0805 T/R       P 5*         R600       A11386-4021       10K 1/10w 1X SMD 0805 T/R       B 3         R801       A11386-4021       10K 1/10w 1X SMD 0805 T/R       B 3         R802       A11386-4021       10K 1/10w 1X SMD 0805 T/R       B 3         R805       A11386-4021       10K 1/10w 1X SMD 0805 T/R       B 3         R807       A11371-0804       0 OHM 1/2W 5X 2010 T/R       J 6         R808       A11371-1104       RES 11.0 OHM .5W SMT       J 6         R810       A11371-1104       RES 11.0 OHM .5W SMT       J 3         R811       A11371-1104       RES 11.0 OHM .5W SMT       J 3         R812       A11371-1104       RES 11.0 OHM .5W SMT       J 3         R813       A11368-18021       10k M/M .1W 1X CHIP 0805       O 3*         R814       A11371-1804       P OHM 1/2W 5X 2010 T/R       J 2         R813       A11368-18021       10k M/M .1W 1X CHIP 0805       O 3*         R831       A11368-18021       10k M/M .1W 1X CHIP 0805       M 4         R832       A11368-18021       10k M/M .1W 1X 0805 T/R       P 3*         R831				N 5
P799       A11368-28721       26.7K0HM .1W 1X 0805 T/R       P 5*         R800       A11368-18021       10K 1/10W 1X SMD 0805 T/R       B 3         R801       A11368-49911       4.99K 1/10W 1X SMD 0805 T/R       B 3         R802       A11386-49911       4.99K 1/10W 1X SMD 0805 T/R       B 3         R805       A11386-49911       4.99K 1/10W 1X SMD 0805 T/R       C 7         R805       A11386-102110K 1/10W 1X SMD 0805 T/R       J 5         R806       A11371-10R04       0 OHM 1/2W 5X 2010 T/R       J 5         R809       A11371-1104       RES 11.0 OHM SW SMT       J 4         R811       A11371-1104       RES 11.0 OHM SW SMT       J 3         R812       A11371-1104       RES 11.0 OHM SW SMT       J 3         R813       A11371-1104       RES 11.0 OHM SW SMT       J 3         R814       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 3         R813       A11366-21021       0.0KOHM .1W 1X CHIP 0805       M 2         R814       A11366-2211 02 X/K0HM .1W 1X CHIP 0805       M 4         R82       A11366-21221 Z5 X/K0HM .1W 1X CHIP 0805       M 4         R832       A11366-2121 Z5 X/K0HM .1W 1X CHIP 0805       M 4         R834       A11366-2212 Z5 X/K0HM .1W 1X 0405 T/R       P				P 5*
REG00         A11366-10021         IVE 1/10W 1X SMD 2005 T/R         B 3           R001         A11366-49911         4.99K 1/10W 1X SMD 2005 T/R         B 3           R002         A11366-49911         4.99K 1/10W 1X SMD 2005 T/R         B 3           R005         A11366-49911         4.99K 1/10W 1X SMD 2005 T/R         D 3           R007         A11366-49011         4.95K 1/10W 1X SMD 2005 T/R         D 4           R007         A11371-0R04         0 OHM 1/2W 5X 2010 T/R         J 5           R008         A11371-10R04         0 OHM 1/2W 5X 2010 T/R         J 4           R010         A11371-1104         RES 11.0 OHM SW SMT         J 1           R012         A11371-1104         RES 11.0 OHM SW SMT         J 3           R013         A11371-1104         RES 11.0 OHM SW SMT         J 3           R014         A11371-10R04         0 OHM 1/2W 5X 2010 T/R         J 2           R014         A11371-10R04         0 OHM 1/2W 5X 2010 T/R         J 3           R013         A11360-10021         NC 10W 1X SMD 2005         O 3*           R014         A11371-0R04         0 OHM 1/2W 5X 2010 T/R         J 3           R013         A11360-10021         1K 1/10W 1X SHD 2005         M 2           R024         A11360-10021 <td></td> <td></td> <td></td> <td>P 5*</td>				P 5*
R801       A11368-49911       4.99K       1/10W       1X SMD 0805       T/R       B3         R802       A11386-1021       10K       1/10W       1X, SMD 0805       T/R       C       7         R805       A11371-0R04       0 OHM       1/2W 5X 2010       T/R       J       5         R808       A11371-1R44       RES       1.0 OHM .5W SMT       J       4         R809       A11371-1R44       RES       1.0 OHM .5W SMT       J       1         R811       A11371-1R44       RES       1.0 OHM .5W SMT       J       1         R811       A11371-1R44       RES       1.0 OHM .5W SMT       J       2         R811       A11371-1R44       RES       1.0 OHM .5W SMT       J       2         R811       A11371-R644       0 OHM 1/2W 5X 2010 T/R       J       2       2         R813       A11360-10021       10K 1/1W 1X CHIP 0805       M       2       2         R831       A11360-10021       10K 1/1W 1X SMD 0805 T/R       P       3       3         R831       A11360-10021       10K 1/1W 1X SMD 0805 T/R       P       3       3         R832       A11360-10021       10K 1/1W 1X SMD 0805 T/R       P       3				ВЗ
Nobil         All 386 - 49311         4.95K 1/10W 12. SMD 2025 T/R         B 3           R002         All 386 - 40911         4.95K 1/10W 12. SMD 2025 T/R         C 7           R027         All 386 - 10021         10K 1/10W 12. SMD 2025 T/R         C 7           R027         All 386 - 10021         10K 1/10W 12W 5X 2010 T/R         J 6           R020         All 371 - 10404         0 OHM 1/2W 5X 2010 T/R         J 6           R020         All 371 - 10404         RES 11.0 OHM .5W SMT         J 4           R010         All 371 - 1104         RES 11.0 OHM .5W SMT         J 3           R011         All 371 - 1104         RES 11.0 OHM .5W SMT         J 3           R014         All 371 - 1074         RES 11.0 OHM .5W SMT         J 3           R014         All 371 - 1074         RES 11.0 OHM .5W SMT         J 3           R013         All 306 - 10031         108. CMM .1W 1X. CHIP 0005         O 3*           R031         All 306 - 10031         108. CMM .1W 1X. CHIP 0005         M 4           R032         All 366 - 10041         10M OHM .1W 1X. CHIP 0005         M 4           R033         All 366 - 10041         10M OHM .1W 1X. CHIP 0005         M 4           R034         All 366 - 10041         10M OHM .1W 1X. CHIP 0005         M 4     <				
NBB2       A11308-4001       10X 1/10W 1X SMD 0805 T/R       C 7         R805       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 5         R809       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 5         R809       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 5         R809       A11371-1104       RES 11.0 OHM .5W SMT       J 4         R810       A11371-1104       RES 11.0 OHM .5W SMT       J 3         R811       A11371-1104       RES 11.0 OHM .5W SMT       J 3         R811       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 2         R814       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 3         R813       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 3         R814       A11360-22111       2.21KOHM.1W 1X CHIP 0805       M 2         R831       A11360-22111       2.21KOHM.1W 1X CHIP 0805       M 2         R832       A11360-10021       10K 1/10W 1X 0405 T/R       P 3*         R939       A11360-2212       2.5.7KOHM.1W 1X 0405 T/R       P 3*         R11       127518-3       NTC 20K J 10X #0 R1NG       K 11         R12       127518-3       NTC 20K J 10X #0 R1NG       K 11         R11       126072-1       XFMR.				
RB07       A11371-0R04       Ø       OHM       1/2W SX 2010       T/R       J       5         R080       A11371-1104       RES 11.0       OHM       SW SMT       J       4         R010       A11371-1104       RES 11.0       OHM       SW SMT       J       4         R011       A11371-1104       RES 11.0       OHM       SW SMT       J       3         R011       A11371-1104       RES 11.0       OHM       SW SMT       J       3         R011       A11371-1084       RES 11.0       OHM       SW SMT       J       3         R011       A11371-1084       RES 11.0       OHM       SW SMT       J       3         R014       A11371-0804       0 OHM 1/2W SX 2010       T/R       J       3         R014       A11360-18031       100.KOHM       NU X CHIP 0805       O       3*         R030       A11360-12021       10X 1/10W 1X SMD 0805       T/R       P       3*         R032       A11360-12021       10X 1/10W 1X SMD 0805       T/R       P       3*         R031       A11360-12021       10X 1/10W 1X SMD 0805       T/R       P       3*         R11227518-3       NTC 20K J 10X HB RING				
HBD/       A H 37 1-0004       D HM 1/2W 5X 2010 T/R       J 5         R00B       A H 37 1-0044       D HM 1/2W 5X 2010 T/R       J 4         R00B       A H 37 1-1104       RES 11.0 DHM .5W SMT       J 4         R01D       A H 37 1-1104       RES 11.0 DHM .5W SMT       J 1         R011       A H 37 1-1104       RES 11.0 DHM .5W SMT       J 2         R011       A H 37 1-1104       RES 11.0 DHM .5W SMT       J 3         R012       A H 37 1-1104       RES 11.0 DHM .5W SMT       J 2         R014       A H 37 1-1044       OHM 1/2W 5X 2010 T/R       J 2         R014       A H 37 1-0704       0 DHM 1/2W 5X 2010 T/R       J 3         R013       A H 368-10021       100. KDHM .1W 1X CHIP 0005       M 2         R031       A H 368-10021       100. KDHM .1W 1X CHIP 0005       M 2         R032       A H 368-10021       100. KDHM .1W 1X CHIP 0005       M 2         R032       A H 368-10021       100. KT 20K J 100. HB RING       K 11         R12       127518-3       NTC 20K J 102. HB RING       K 11         R12       127522-2       XFMR. 125KAT 15V GATE DRIVE       E 7         T3       127522-2       XFMR. 125KAT 15V GATE DRIVE       E 9         T4       12				
NB05       A11371-1104       RES 11.0       DHM .5W SMT       J 4         RB10       A11371-1104       RES 11.0       DHM .5W SMT       J 1         RB11       A11371-1104       RES 11.0       DHM .5W SMT       J 1         RB12       A11371-1104       RES 11.0       DHM .5W SMT       J 3         RB13       A11371-1104       RES 11.0       DHM .5W SMT       J 3         RB14       A11371-0R04       0       DHM 1/2W SX 2010       T/R       J 2         RB14       A11370-0R04       0       DHM 1/2W SX 2010       T/R       J 3         RB32       A11360-10031       100.KOHM .1W 1% CHIP 0805       M 2         RB31       A11360-10021       10K NHM .1W 1% CHIP 0805       M 2         RB32       A11360-10021       10K 1/10W 1% SMD 0605 T/R       P 3*         RB33       A11360-10021       10K 1/2W SX 2010 T/R       P 3*         RB34       A11360-10021       10K 1/2W 5% 2010 T/R       P 3*         RB35       A11360-10021       10K 1/2W 5% 2010 T/R       P 3*         RB32       A11360-10021       10K 140 REN 6005       K 3         T1       126012-1       KFMR 126K 20K 107       D 11         T1       127518-3       NTC 2				
NB059       A11371-1104       RES 11.0       OHM SW SMT       J         RB10       A11371-1104       RES 11.0       OHM SW SMT       J         RB12       A11371-1104       RES 11.0       OHM SW SMT       J         RB12       A11371-1104       RES 11.0       OHM SW SMT       J         RB13       A11371-1044       RES 11.0       OHM SW SMT       J         RB14       A11371-0404       0       OHM 1/2W SX 2010       T/R       J         RB30       A11368-18031       100.KOHM .1W 1% CHIP 0805       O       3*         RB31       A11368-20211       2.1KOHM .1W 1% CHIP 0805       M       2         RB32       A11368-18021       10K 1/10W 1% SMD 0605 T/R       P       3*         RB93       A11368-26721       25.7KOHM .1W 1% 0805 T/R       P       3*         R11       127518-3       NTC 20K J       10% #8 RING       K 11         T1       126812-1       XFMR, 402V/150V CT       D       D       11         T2       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E       9         T4       126072-1       XFMR, CURRENT SENSE       C       9         T1       127622-2       XFMR, 125KHZ 15V GATE DRIVE				· · · · · · · · · · · · · · · · · · ·
No182       A113/1-1184       RES       11.80       OHM       SM       SM         R811       A11371-1184       RES       11.80       OHM       SW       SMT       J         R812       A11371-1804       Ø       OHM       1/2W       SX 2010       T/R       J       J         R813       A11371-0804       Ø       OHM       1/2W       SX 2010       T/R       J       J         R814       A11368-10041       100       NU X       CHIP 0805       O       3#         R831       A11368-10041       IM       M       X       CHIP 0805       M       4         R832       A11368-10041       IM       M       X       CHIP 0805       M       4         R832       A11368-10041       IM       OHM       X       CHIP 0805       M       4         R893       A11368-10041       IM       OHM       X       CHIP 0805       M       4         R893       A11368-10041       IM       OHM       X       SMD       205       NK       4         R11       127518-3       NTC       20K       J       DX       BR       R1NG       K       11				
RB12       A11371-1104       RES       11.0 OHM. 5W SMT       J 3         RB13       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 2         RB14       A11371-0R04       0 OHM 1/2W 5X 2010 T/R       J 3         RB30       A11360-10031       100 KOHM. 1W 1X CHIP 0605       O 3*         RB31       A11368-10041       1M OHM. 1W 1X CHIP 0605       O 3*         RB32       A11368-10041       1M OHM. 1W 1X CHIP 0605       M 2         RB32       A11368-10041       1M OHM. 1W 1X CHIP 0605       M 2         RB32       A11368-10041       1M OHM. 1W 1X CHIP 0605       M 2         RB93       A11368-26721       26.7KOHM. 1W 1X CHIP 0605       M 2         RB93       A11368-26721       26.7KOHM. 1W 1X SMD 0605 T/R       P 3*         RB93       A11368-26721       26.7KOHM. 1W 1X 0805 T/R       P 3*         R11       127518-3       NTC 20K J 10X #8 RING       K 11         R12       127522-2       XFMR, 408V/150V CT       D 11         T1       128012-11       XFMR, 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 7         T4       12607-1       XFMR, 126KHZ 15V GATE DRIVE       E 7         T10				
HB12       ATT371-FTB4       ILD TTUB4       ILD TTUB4       J         RB13       ATT371-BR04       0 DHM 1/2W 5X 2010 T/R       J       J         RB14       ATT371-BR04       0 DHM 1/2W 5X 2010 T/R       J       J         RB14       ATT371-BR04       0 DHM 1/2W 5X 2010 T/R       J       J         RB30       ATT368-10031       100.KDHM .1W 1X CHIP 0805       O       3*         RB31       ATT368-10031       100.KDHM .1W 1X CHIP 0805       N       4         RB32       ATT368-10021       10X TV       NTC 20K J       P3*         RB99       ATT368-10021       10X TV       NTC 20K J       P3*         RT1       127518-3       NTC 20K J       10X #8 RING       K       11         T1       126012-1       XFMR. 125KHZ 15V GATE DRIVE       E       7         T3       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E       7         T4       126072-1       XFMR. CURRENT SENSE       C       9         T4       126072-1       XFMR. 125KHZ 15V GATE DRIVE       E       7         T3       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E       7         T4       126072-1       XFMR. 125KHZ 15V GATE DRIVE       E				
NR13       A H1371 B/R04 & D DHM 1/2H 5X 2010 T/R       J 3         R814       A 11371 B/R04 & D DHM 1/2W 5X 2010 T/R       J 3         R830       A 11368-10031 100.KDHM .1W 1X CHIP 0605       O 3*         R831       A 11368-10031 100.HM .1W 1X CHIP 0605       M 2         R832       A 11368-22111 2.21KDHM .1W 1X CHIP 0605       N 4         R833       A 11368-10021 10K 1/10W 1X SMD 0605 T/R       P 3*         R833       A 11368-26721 25.7KDHM .1W 1X 0605 T/R       P 3*         R11       127518-3       NTC 20K J 10X #8 RING       K 11         R12       127518-3       NTC 20K J 10X #8 RING       K 11         R12       127512-2       XFMR, 400V/150V CT       D 11         12       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR, 125KHZ 15V GATE DRIVE       E 9         T4X       101120-1       WIRE, K2 CURRENT SENSE       C 9         T4X       101120-1       WIRE, K2 CURRENT SENSE       N 11         T100       H43528-9       XFMR D350 100:1 CURRENT SENSE       N 11         T101       128663-1       XFMR, BCA GATE SUPPLY       K 7         T200       <				
HB14       ATT371*5007       B OLMM IN 120 5015       03*         RB30       AT1368-10031       100.KDHM IN 12.CH1P 0005       03*         RB31       AT1368-10031       100.KDHM IN 12.CH1P 0005       N 4         RB89       AT1368-10021       101.112.XI X MD 0005       N 4         RB89       AT1368-26721       26.7KOHM IW 12.CH1P 0005       N 4         RB99       AT1368-26721       26.7KOHM IW 12.KD1P 0005       N 4         RB99       AT1368-26721       26.7KOHM IW 12.KD005       7/R       P 3*         RT1       127518-3       NTC 20K J 102.4B RING       K 11         RT2       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR, 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR, DURENT SENSE       C 9         T100       H43628-9       XFMR D350 100:1       CURRENT SENSE       C 9         T100       H43628-9       XFMR D350 100:1       CURRENT SENSE       N 11         T101       126863-1       XFMR D350 100:1       CURRENT SENSE       N 11         T101       126863-1       XFMR D350 100:1       CURRENT SENSE				
H339       A17385-12031 100.100 .101 .101 .101       A17385-12031         H331       A1368-120211 12. 21KOHM. 1W 1X CHIP 0805       M 4         RB32       A11368-10021 10K 1/10W 1X SMD 0805 T/R       P 3*         R899       A11368-26721 26. 7KOHM. 1W 1X SMD 0805 T/R       P 3*         R899       A11368-26721 26. 7KOHM. 1W 1X SMD 0805 T/R       P 3*         R899       A11368-26721 26. 7KOHM. 1W 1X SMD 0805 T/R       P 3*         R899       A11368-26721 26. 7KOHM. 1W 1X SMD 0805 T/R       P 3*         R11       127518-3       NTC 20K J 10X #8 RING       K 11         RT2       127522-2       XFMR, 400V/150V CT       D 11         T2       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 9         T4X       101128-1       WIRE, K2 CURRENT SENSE       C 9         T100       H43528-9       XFMR D350 100:1       CURRENT SENSE       N 11         T101       128663-1       XFMR, BCA GATE SUPPLY       K 7         T101       128663-1       XFMR, BCA GATE SUPPLY       K 7         T200       H43528-9       XFMR D350 100:1       CURRENT SENSE       N 11         T201       126663-1       XFMR, BCA GATE SUPPLY       <	RB14			
RB32       A1136B-10041       1M OHM .1W 1% CHIP 0805       N 4         RB89       A1136B-10021       10K 1/10W 1% SMD 0805 T/R       P 3*         R899       A1136B-26721       25.7K0HM .1W 1% 0805 T/R       P 3*         R11       127518-3       NTC 20K J 10% #8 RING       K 11         RT2       127518-3       NTC 20K J 10% #8 RING       K 3         T1       126012-1       XFMR. 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR. 125KHZ 15V GATE DRIVE       E 9         T4X       101128-1       WIRE, K2 CURRENT SENSE       C 9         T100       H43528-9       XFMR D350       100:1       CURRENT SENSE       N 11         T101       12653-1       XFMR D350       100:1       CURRENT SENSE       N 11         T101       126563-1       XFMR D350       100:1       CURRENT SENSE       N 11         T201       12664-1       TEST POINT. SMT 1205       K 7         TP2       127064-1       TEST POINT. SMT 1205       C 4         TP3       127064-1       TEST POINT. SMT 1206       A 4         TP4       127064-1       TEST POINT. SMT 1206       C 8 <td>R830</td> <td></td> <td></td> <td></td>	R830			
HB32       AT 1365 - 100 - 1       TW 0.1M 0.1M 0.2M 0.2       P 3*         R889       A11368 - 26721       25. 7K0HM. 1W 1X 0805 T/R       P 3*         R11       127518 - 3       NTC 20K J 10X #8 RING       K 11         R12       127518 - 3       NTC 20K J 10X #8 RING       K 11         R12       127518 - 3       NTC 20K J 10X #8 RING       K 11         T1       126012 - 1       XFMR, 400V/150V CT       D 11         T2       127522 - 2       XFMR, 125KHZ 15V GATE DRIVE       E 7         T3       127522 - 2       XFMR, 125KHZ 15V GATE DRIVE       E 9         T4       126072 - 1       XFMR, CURRENT SENSE       C 9         T4X       101120 - 1       WIRE, K2 CURRENT SENSE       C 9         T100       H43628 - 9       XFMR D350 100: 1       CURRENT SENSE       N 11         T101       126863 - 1       XFMR, BCA GATE SUPPLY       K 7         T101       126863 - 1       XFMR, BCA GATE SUPPLY       K 7         T200       H43628 - 9       XFMR, BCA GATE SUPPLY       K 7         T101X       101128 - 1       WIRE, K2 CURRENT SENSE       P 11         T208       H43628 - 9       XFMR, BCA GATE SUPPLY       K 7         T11       127064 - 1	R831			
RB99       A11366-16627       126.7K0HM. 1W 1Z 0805 T/R       P 3*         RT1       127518-3       NTC 20K J 10X #8 RING       K 11         RT2       127518-3       NTC 20K J 10X #8 RING       K 3         T1       126012-1       XFMR. 400V/150V CT       D 11         T2       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR. 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR. 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR. 125KHZ 15V GATE DRIVE       E 9         T4X       101120-1       WIRE, K2 CURRENT SENSE       C 9         T100       H43628-9       XFMR D350 100:1       CURRENT SENSE       N 11         T101       126863-1       XFMR, BCA GATE SUPPLY       K 7         T111X       101120-1       WIRE, K2 CURRENT SENSE       N 11         T200       H43628-9       XFMR D350 100:1       CURRENT SENSE       P 11         T201       126663-1       XFMR, BCA GATE SUPPLY       K 7         T11       127064-1       TEST POINT, SMT 1206       N 6         TP2       127064-1	R832			
Notes       Notes       Notes       Notes       Notes         RT1       127518-3       NTC 20K J 10% #8 RING       K 11         RT2       127518-3       NTC 20K J 10% #8 RING       K 3         T1       126012-1       XFMR, 400/150V CT       D 11         T2       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR, CURRENT SENSE       C 9         T4       126072-1       XFMR, DJS0 100:1       CURRENT SENSE       C 9         T4       101120-1       WIRE, K2 CURRENT SENSE       C 9         T100       H43628-9       XFMR DJS0 100:1       CURRENT SENSE       N 11         T101       101126-1       WIRE, K2 CURRENT SENSE       N 11         T101       126863-1       XFMR, BCA GATE SUPPLY       K 7         T101X       101126-1       WIRE, K2 CURRENT SENSE       P 11         T200       H43528-9       XFMR DJS0 100:1       CURRENT SENSE       N 6         TP2       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1	R889			
RT1       127518-3       NTC 20K J 10% #8 RING       K 3         T1       126812-1       XFMR, 400V/150V CT       D 11         T2       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR, 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR, CURRENT SENSE       C 9         T4       101128-1       WIRE, K2 CURRENT SENSE       C 9         T100       H43628-9       XFMR D350 100:1       CURRENT SENSE       N 11         T101       126863-1       XFMR, BCA GATE SENSE       N 11         T101       126863-1       XFMR, BCA GATE SUPPLY       K 7         T200       H43528-9       XFMR, BCA GATE SUPPLY       K 7         T11       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1       TEST POINT, SMT 1206       C 4         TP5       127064-1       TEST POINT, SMT 1206       A 4         TP5       127064-1       TEST POINT, SMT 1206       D 7 <td>R899</td> <td>A11368-26721</td> <td>26.7KOHM .1W 1% 0805 T/R</td> <td></td>	R899	A11368-26721	26.7KOHM .1W 1% 0805 T/R	
NT12       12/010 J0       NTME       D 111         T1       126012-1       XFMR. 400V/150V CT       D 111         T2       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E 7         T3       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR. CURRENT SENSE       C 9         T4       101128-1       WIRE. K2 CURRENT SENSE       C 9         T100       H43628-9       XFMR D350 100:1       CURRENT SENSE       N 11         T101       126863-1       XFMR. BCA GATE SUPPLY       K 7         T1011       126863-1       XFMR. BCA GATE SUPPLY       K 7         T101       126863-1       XFMR. BCA GATE SUPPLY       K 7         T101       126863-1       XFMR. BCA GATE SUPPLY       K 7         T200       H43528-9       XFMR. BCA GATE SUPPLY       K 7         TP1       127064-1       TEST POINT. SMT 1206       N 6         TP2       127064-1       TEST POINT. SMT 1206       L 8         TP5       127064-1       TEST POINT. SMT 1206       L 7         TP8       127064-1       TEST POINT. SMT 1206       A 4         TP7       127064-1       TEST POINT. SMT 1206       C 8	RT1	127518-3	NTC 20K J 10% #B RING	
11       120012 1       ATMR. 125KHZ 15V GATE DRIVE       E 7         12       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E 9         14       126072-1       XFMR. 125KHZ 15V GATE DRIVE       E 9         74       101128-1       WIRE, K2 CURRENT SENSE       C 9         7100       H43628-9       XFMR D350 100:1       CURRENT SENSE       N 11         71101       101128-1       WIRE, K2 CURRENT SENSE       N 11         71101       126863-1       XFMR D350 100:1       CURRENT SENSE       N 11         7101       126863-1       XFMR BCA GATE SUPPLY       K 7         7101       101128-1       WIRE, K2 CURRENT SENSE       K 7         7200       H43628-9       XFMR D350 100:1       CURRENT SENSE       K 7         7101X       101128-1       WIRE, K2 CURRENT SENSE       K 7         7101X       101128-1       WIRE, K2 CURRENT SENSE       K 7         7101X       101128-1       WIRE, K2 CURRENT SENSE       N 11         7200       H43628-9       XFMR D350 100:1       CURRENT SENSE       K 7         7101X       101128-1       WIRE, K2 CURRENT SENSE       K 7         7120       127064-1       TEST POINT, SMT 1206       L 8	RT2	127518-3	NTC 20K J 10% #8 RING	
12       12/322 2       XFMR. 125KHZ 15V GATE DRIVE       E 9         T3       127522-2       XFMR. 125KHZ 15V GATE DRIVE       E 9         T4       126072-1       XFMR. CURRENT SENSE       C 9         T4X       101128-1       WIRE, K2 CURRENT SENSE       C 9         T100       H43628-9       XFMR D350 100:1       CURRENT SENSE       N 11         T100       H43628-9       XFMR D350 100:1       CURRENT SENSE       N 11         T101       126863-1       XFMR. BCA GATE SUPPLY       K 7         T101X       101128-1       WIRE, K2 CURRENT SENSE       K 7         T200       H43628-9       XFMR D350 100:1       CURRENT SENSE       K 7         T2101       126863-1       XFMR, BCA GATE SUPPLY       K 7         TP1       127064-1       TEST POINT, SMT 1206       N 6         TP2       127064-1       TEST POINT, SMT 1206       L 8         TP5       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       T	T1	126012-1	XFMR, 400V/150V CT	· · · · · · · · · · · · · · · · · · ·
13       12/322 1       XFMR. CURRENT SENSE       C 9         74       126072-1       XFMR. CURRENT SENSE       C 9         714       10112B-1       WIRE, K2 CURRENT SENSE       C 9         7100       H4362B-9       XFMR D350 100:1       CURRENT SENSE       N 11         7101       126863-1       WFRE, K2 CURRENT SENSE       N 11         7101       126863-1       XFMR. BCA GATE SUPPLY       K 7         7101       126863-1       XFMR. BCA GATE SUPPLY       K 7         7101       126863-1       XFMR. D350 100:1       CURRENT SENSE       P 11         7200       H43628-9       XFMR. D350 100:1       CURRENT SENSE       P 11         7201       126863-1       XFMR. BCA GATE SUPPLY       K 7         711       127064-1       TEST POINT, SMT 1206       N 6         722       127064-1       TEST POINT, SMT 1206       L 8         745       127064-1       TEST POINT, SMT 1206       A 4         79       127064-1       TEST POINT, SMT 1206       D 7         798       127064-1       TEST POINT, SMT 1206       E 4         799       127064-1       TEST POINT, SMT 1206       C 8         7110       127064-1       TEST POINT,	T2	127522-2	XFMR, 125KHZ 15V GATE DRIVE	E 7
14       120072 1       WIRE. K2 CURRENT SENSE       C 9         74X       101128-1       WIRE. K2 CURRENT SENSE       N 11         7100       H43628-9       XFMR D350 100:1 CURRENT SENSE       N 11         7101       126863-1       XFMR. BCA GATE SUPPLY       K 7         7200       H43628-9       XFMR D350 100:1 CURRENT SENSE       P 11         7201       126863-1       XFMR. BCA GATE SUPPLY       K 7         711       127064-1       TEST POINT. SMT 1206       C 4         712       127064-1       TEST POINT. SMT 1206       C 4         7191       127064-1       TEST POINT. SMT 1206       E 3         716       127064-1       TEST POINT. SMT 1206       A 4         7191       127064-1       TEST POINT. SMT 1206       A 4         7191       127064-1       TEST POINT. SMT 1206       A 4         7191       127064-1       TEST POINT. SMT 1206       B 7         7191       127064-1       TEST POINT. SMT 1206       C 8	ТЗ	127522-2	XFMR, 125KHZ 15V GATE DRIVE	
1142       1112       1112       1112       1112       1112       1112         1100       101128-1       WIRE, K2 CURRENT SENSE       N 11         1101       126863-1       XFMR, BCA GATE SUPPLY       K 7         1101       126863-1       WIRE, K2 CURRENT SENSE       K 7         1101       126863-1       WIRE, K2 CURRENT SENSE       K 7         1101X       101128-1       WIRE, K2 CURRENT SENSE       K 7         111       126863-1       XFMR D350 100:1 CURRENT SENSE       K 7         111       126863-1       XFMR, BCA GATE SUPPLY       K 7         111       127064-1       TEST POINT, SMT 1206       C 4         111       127064-1       TEST POINT, SMT 1206       A 4         117       127064-1       TEST POINT, SMT 1206       D 7         118       127064-1       TEST POINT, SMT 1206       C 8         119       127064-1       TEST POINT, SMT	Τ4	126072-1	XFMR, CURRENT SENSE	
1100       11100       11100       11100       11100       11100         1100       11100       126863-1       XFMR. BCA GATE SUPPLY       K 7         1101       126863-1       XFMR. BCA GATE SUPPLY       K 7         1101       101128-1       WIRE, K2 CURRENT SENSE       K 7         1101       101128-1       WIRE, K2 CURRENT SENSE       K 7         1200       H43628-9       XFMR D350 100:1       CURRENT SENSE       P 11         1201       126863-1       XFMR, BCA GATE SUPPLY       K 7         TP1       127064-1       TEST POINT, SMT 1206       K 7         TP2       127064-1       TEST POINT, SMT 1206       L 8         TP5       127064-1       TEST POINT, SMT 1206       E 3         TP6       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       E 8         TP10       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT,	T4X	101128-1	WIRE, K2 CURRENT SENSE	<u> </u>
1100A       1011201       XFMR, BCA GATE SUPPLY       K 7         1101       126863-1       XFMR, BCA GATE SUPPLY       K 7         1101X       101128-1       WIRE, K2 CURRENT SENSE       K 7         1200       H43628-9       XFMR D350 100:1 CURRENT SENSE       P 11         1201       126863-1       XFMR, BCA GATE SUPPLY       K 7         TP1       127064-1       TEST POINT, SMT 1206       N 6         TP2       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1       TEST POINT, SMT 1206       E 3         TP6       127064-1       TEST POINT, SMT 1206       E 3         TP7       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       C 8         TP9       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       C 8         D	T100	H43628-9	XFMR D350 100:1 CURRENT SENSE	<u>N 11</u>
T101       12000       MIRE. K2 CURRENT SENSE       K 7         T101X       101128-1       WIRE. K2 CURRENT SENSE       P 11         T200       H43628-9       XFMR D350 100:1 CURRENT SENSE       P 11         T201       126863-1       XFMR, BCA GATE SUPPLY       K 7         TP1       127064-1       TEST POINT, SMT 1206       N 6         TP2       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1       TEST POINT, SMT 1206       E 3         TP6       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       C 8         TP11       127064-1       TEST POINT, SMT 1206       C 8         TP1	T100X	101128-1	WIRE, K2 CURRENT SENSE	N 11
TTEDTA       THTLE, REPERTINGE       P 11         T200       H43628-9       XFMR D350 100:1 CURRENT SENSE       P 11         T201       126863-1       XFMR, BCA GATE SUPPLY       K 7         TP1       127064-1       TEST POINT, SMT 1206       N 6         TP2       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1       TEST POINT, SMT 1206       L 8         TP5       127064-1       TEST POINT, SMT 1206       E 3         TP6       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       C 8         TP11       127064-1       TEST POINT, SMT 1206       C 8         LESS OTHERWISE MARKED IN RED IN	T1Ø1	126863-1	XFMR, BCA GATE SUPPLY	K 7
T201       126863-1       XFMR. BCA GATE SUPPLY       K 7         TP1       127064-1       TEST POINT. SMT 1206       N 6         TP2       127064-1       TEST POINT. SMT 1206       C 4         TP3       127064-1       TEST POINT. SMT 1206       L 8         TP5       127064-1       TEST POINT. SMT 1206       E 3         TP6       127064-1       TEST POINT. SMT 1206       A 4         TP7       127064-1       TEST POINT. SMT 1206       D 7         TP8       127064-1       TEST POINT. SMT 1206       E 4         TP9       127064-1       TEST POINT. SMT 1206       D 7         TP8       127064-1       TEST POINT. SMT 1206       C 8         TP10       127064-1       TEST POINT. SMT 1206       C 8         TP10       127064-1       TEST POINT. SMT 1205       C 8         TP10       127064-1       TEST POINT. SMT 1205       C 8         TP11       127064-1       TEST POINT. SMT 1205       C 8         UNCONTROLLED	T101X	101128-1	WIRE, K2 CURRENT SENSE	К 7
TP1       127064-1       TEST POINT, SMT 1206       N 6         TP2       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1       TEST POINT, SMT 1206       L 8         TP5       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       D 7         TP9       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       C 8         TP11       127064-1       TEST POINT, SMT 1205       N 6         TP11       127064-1       TEST POINT, SMT 1206       C 8         UNCONTROLLED	T200	H43628-9	XFMR D350 100:1 CURRENT SENSE	P 11
TP1       127064-1       TEST POINT, SMT 1206       N 6         TP2       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1       TEST POINT, SMT 1206       L 8         TP5       127064-1       TEST POINT, SMT 1206       E 3         TP6       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       D 7         TP9       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       C 8         TP11       127064-1       TEST POINT, SMT 1206       C 8         TP11       127064-1       TEST POINT, SMT 1206       C 8         UNCONTROLLED	T2Ø1	126863-1	XFMR, BCA GATE SUPPLY	К 7
TP2       127064-1       TEST POINT, SMT 1206       C 4         TP3       127064-1       TEST POINT, SMT 1206       L 8         TP5       127064-1       TEST POINT, SMT 1206       E 3         TP6       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       C 8         TP11       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       C 8         TP11       127064-1       TEST POINT, SMT 1206       C 8         TP11       127064-1       TEST POINT, SMT 1206       C 8         UNCONTROLLED		127064-1	TEST POINT, SMT 1206	NБ
TP3       127064-1       TEST POINT. SMT 1206       L B         TP5       127064-1       TEST POINT. SMT 1206       E 3         TP6       127064-1       TEST POINT. SMT 1206       A 4         TP7       127064-1       TEST POINT. SMT 1206       D 7         TP8       127064-1       TEST POINT. SMT 1206       E 4         TP9       127064-1       TEST POINT. SMT 1206       C 8         TP10       127064-1       TEST POINT. SMT 1206       C 8         TP10       127064-1       TEST POINT. SMT 1206       C 8         TP11       127064-1       TEST POINT. SMT 1206       C 8         UNCONTROLLED		· · · · · · · · · · · · · · · · · · ·	TEST POINT, SMT 1206	C 4
TP5       127064-1       TEST POINT, SMT 1206       E 3         TP6       127064-1       TEST POINT, SMT 1206       A 4         TP7       127064-1       TEST POINT, SMT 1206       D 7         TP8       127064-1       TEST POINT, SMT 1206       E 4         TP9       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       C 8         TP111       127064-1       TEST POINT, SMT 1206       C 8         TP111       127064-1       TEST POINT, SMT 1206       C 8         UNCONTROLLED				LB
TP6       127054-1       TEST POINT, SMT 1205       A 4         TP7       127054-1       TEST POINT, SMT 1205       D 7         TP8       127054-1       TEST POINT, SMT 1206       E 4         TP9       127054-1       TEST POINT, SMT 1205       C 8         TP10       127054-1       TEST POINT, SMT 1205       C 8         TP111       127054-1       TEST POINT, SMT 1205       C 8         TP111       127054-1       TEST POINT, SMT 1205       C 8         UNCONTROLLED				EЗ
TP7       127054-1       TEST POINT, SMT 1205       D 7         TP8       127054-1       TEST POINT, SMT 1206       E 4         TP9       127054-1       TEST POINT, SMT 1205       C 8         TP10       127054-1       TEST POINT, SMT 1205       C 8         TP111       127054-1       TEST POINT, SMT 1205       C 8         UNCONTROLLED       C       C       C         LUNCONTROLLED       C       C       C         LESS OTHERWISE MARKED IN RED INK BY CM AS A       C       C         LUNCONTROLLED       C       C       C         LESS OTHERWISE MARKED IN RED INK BY CM AS A       C       C         LUNICONTROLLED       C       C       C         LESS DAD ASSOCIATED ELECTRONIC REPRODUCTIONS       SIZE DWG NO.       C       C         ESE DRAWINSS AND SPECIFICATIONS ARE THE       SIZE DWG NO.       C       C       C				A 4
TP1       127051       TEST POINT, SMT 1205       E 4         TP9       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       N 6         TP11       127064-1       TEST POINT, SMT 1206       N 6         TP11       127064-1       TEST POINT, SMT 1206       C 8         UNCONTROLLED       C       C       C         LUNCONTROLLED       COPIES OF THESE DOCUMENTS       C       C         LUNCONTED LED       COPIES OF THESE DOCUMENTS       C       C         LUNCONTERCLED       COPIES OF THESE DOCUMENTS       C       C         LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS       FOR REFERENCE ONLY.       SIZE DWG NO.       C       C       C         ESE DRAWINES AND SPECIFICATIONS ARE THE       SIZE DWG NO.       C       C       C       C				D 7
TP9       127064-1       TEST POINT, SMT 1206       C 8         TP10       127064-1       TEST POINT, SMT 1206       N 6         TP11       127064-1       TEST POINT, SMT 1206       C 8         UNCONTROLLED       C       C       C         LUNCONTROLLED       C       C       C				
TP10       127064-1       TEST POINT, SMT 1206       N 6         TP11       127064-1       TEST POINT, SMT 1206       C 8         UNCONTROLLED       ESS OTHERWISE MARKED IN RED INK BY CM AS A       Incontrol Control Contrector Contecontector Control Control Control Control C		·····		· · · · · · · · · · · · · · · · · · ·
UNCONTROLLED     EST FOUNT, SMT 1206     C B       LINCONTROLLED     Image: Constraint of the second sec				·
UNCONTROLLED LESS OTHERWISE MARKED IN RED INK BY CM AS A VTROLLED COPY. COPIES OF THESE DOCUMENTS CLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY. HESE DRAWINGS AND SPECIFICATIONS ARE THE SIZE DWG NO.				
LESS OTHERWISE MARKED IN RED INK BY CM AS A NTROLLED COPY. COPIES OF THESE DOCUMENTS CLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY. HESE DRAWINGS AND SPECIFICATIONS ARE THE SIZE DWG NO.	1 F \$ 1			1
LESS OTHERWISE MARKED IN RED INK BY CM AS A VTROLLED COPY. COPIES OF THESE DOCUMENTS CLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY.				
	NTROLLED C CLUDING AS E FOR REFE	WISE MARKED IN R OPY. COPIES OF T SOCIATED ELECTRO RENCE ONLY.	ED INK BY CM AS A HESE DOCUMENTS NIC REPRODUCTIONS	
ADPERTY OF CROWN INTERNATIONAL, INC. AND A 20218-14 HALL NOT BE REPRODUCED, COPIED, OR USED STHE BASIS FOR THE MANUFACTURE OR SALE	ROPERTY OF	CROWN INTERNATIO	DNAL. INC. AND A 126218-	14



		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
TP12	127064-1	TEST PDINT, SMT 1206	C 7
TP13	127064-1	TEST POINT, SMT 1206	DВ
TP14	127064-1	TEST POINT, SMT 1206	ЕB
TP15	127064-1	TEST POINT, SMT 1206	E 7
TP16	127064-1	TEST POINT, SMT 1206	D 9
TP17	127064-1	TEST POINT, SMT 1206	EВ
TP27	127064-1	TEST POINT, SMT 1206	E 7
TP28	127064-1	TEST POINT, SMT 1205	E 7
	127064-1	TEST POINT, SMT 1206	E 7
TP29		TEST POINT, SMT 1206	E 9
TP30	127064-1		E 8
TP31	127064-1		E 8
TP32	127064-1	TEST POINT, SMT 1206	B 7
трзз	127064-1	TEST POINT, SMT 1206	<u>C</u> 7
TP34	127064-1	TEST POINT, SMT 1206	C 7
TP35	127064-1	TEST POINT, SMT 1206	
ТРЗБ	127064-1	TEST POINT, SMT 1206	
TP37	127064-1	TEST POINT, SMT 1206	J 7
ТРЗВ	127064-1	TEST POINT, SMT 1206	K 11
тр39	127064-1	TEST POINT, SMT 1206	A 3
TP40	127064-1	TEST POINT, SMT 1206	<u> </u>
TP41	127064-1	TEST POINT, SMT 1206	<u> </u>
TP43	127064-1	TEST POINT, SMT 1206	ВЗ
TP45	127064-1	TEST POINT, SMT 1206	B 2
TP46	127064-1	TEST POINT, SMT 1206	ВЗ
TP47	127064-1	TEST POINT, SMT 1206	Н 13
TP4B	127064-1	TEST POINT, SMT 1206	B 11
TP49	127064-1	TEST POINT, SMT 1206	A 8
TP50	127064-1	TEST POINT, SMT 1206	EB
TP91	127064-1	TEST POINT, SMT 1206	<u> </u>
TP100	127064-1	TEST POINT, SMT 1206	P 6
TP101	127064-1	TEST POINT, SMT 1206	P 5
TP102	127064-1	TEST POINT, SMT 1206	N 6
TP103	127064-1	TEST POINT, SMT 1206	M 10
TP104	127064-1	TEST POINT, SMT 1206	05
TP105	127064-1	TEST POINT, SMT 1206	P 6
TP143	127064-1	TEST POINT, SMT 1206	A 8
TP162	127064-1	TEST POINT, SMT 1206	В 9
TP200	127064-1	TEST POINT, SMT 1206	P 4
TP201	127064-1	TEST POINT, SMT 1206	Р 3
TP202	127064-1	TEST POINT, SMT 1206	N 4
	127064-1	TEST POINT, SMT 1205	P 10
TP203		TEST POINT, SMT 1205	03
TP204	127064-1	TEST POINT, SMT 1206	P 4
TP205	127064-1	TEST POINT, SMT 1206	κ 2
TP243	127064-1		J 7
TP244	127064-1	TEST POINT, SMT 1205	D 6
TP245	127064-1	TEST POINT, SMT 1206	M 6
TP247	127064-1	TEST POINT, SMT 1206	M B M 3
TP248	127064-1	TEST POINT, SMT 1206	
			<u> </u>
NTROLLED C CLUDING AS	COPY, COPIES OF T	ED INK BY CM AS A	
HESE DRAWI	NGS AND SPECIFIC CROWN INTERNATION REPRODUCED, CON	DNAL, INC. AND $\land$	14
5 THE BASI	S FOR THE MANUFAU	CTURE OR SALE	Г 38 DF 48



		PARTS LIST				
REF DES	C. P. N.	DESCRIPTION	MAP LOC.			
TP249	127064-1	TEST POINT, SMT 1206	A 2			
TP251	127064-1	TEST POINT, SMT 1206	86			
TP252	127064-1	TEST POINT, SMT 1206	A 4			
TP253	127064-1	TEST POINT, SMT 1206	С 8			
TP254	127064-1	TEST POINT, SMT 1206	03			
TP255	127064-1	TEST POINT, SMT 1206	P 2			
TP255	127064-1	TEST POINT, SMT 1206	C 7			
TP257	127064-1	TEST POINT, SMT 1206	N 5			
U1	C 9038-8	COMPARATOR, QUAD LM339D SO-14	N 1			
	128279-1	IC, SGSL49B1B PFC CONTROL	D 3			
	C 8262-5	MC33078D LOW NOISE DUAL OP AMP	0 1			
U3		IC, PWN CONT PHASE SHIFT	DB			
U4	126681-1	TL431ACLP ADJ PREC RENC T/A	C 8			
U5	C 9929-8	OP AMP TL074CD SMT	0 6			
U6	125868-1		B 7			
U7	126559-1	COMPARATOR, LM393 SO-8 DUAL REG, +5V LOW POWER SO-8	<u> </u>			
U8	126561-1		E 3			
U9	127145-1	DVR, 1.5A DUAL SO-8 MOSFET	A 3			
U10	126559-1		A 3			
U11	126559-1	COMPARATOR, LM393 SO-B DUAL	A 4			
U12	126633-1	REGULATOR, 15V SO-8	<u> </u>			
<u>U13</u>	126559-1	COMPARATOR, LM393 SO-8 DUAL	<u> </u>			
U14	126561-1	REG, +5V LOW POWER SO-8	H 14			
U15	126653-1	SGL 2 INPUT NOR GATE SOT-23-5	Н 13			
U16	125867-1	MC74HC4024D 7 STAGE COUNTER SM	E 7			
U17	127145-1	DVR, 1.5A DUAL SO-B MOSFET	B 10			
U18	128383-1	OPTO HCNW2211 IEC65 COMPLIANT				
U19	126561-1	REG, +5V LOW POWER SO-8				
U20	128382-1	OPTO SFH615A-2 IEC65 COMPLIANT	A 10			
U21	126559-1	COMPARATOR, LM393 SO-8 DUAL	<u> </u>			
U22	125541-1	DRVR, 600V IR2104 HALF BRIDGE	L 6			
U23	126553-1	IC, 20V 0.1350HM SOB DUAL NMOS	<u> </u>			
U24	126559-1	COMPARATOR, LM393 SO-8 DUAL	<u>A 4</u>			
U25	С 9929-В	TL431ACLP ADJ PREC RENC T/A				
U26	127145-1	DVR, 1.5A DUAL SO-8 MOSFET	<u>E 3</u>			
U27	126633-1	REGULATOR, 15V SO-8	<u>E 4</u>			
U28	C 5095-2	MC7815CT +15V. REG	D 7			
U29	127145-1	DVR, 1.5A DUAL SO-B MOSFET	E 9			
U30	128382-1	OPTO SFH615A-2 IEC65 COMPLIANT	A 9			
U31	127145-1	DVR, 1.5A DUAL SO-B MOSFET	E 7			
U32	127145-1	DVR, 1.5A DUAL SO-8 MOSFET	E B			
U33		OPEN	A 10			
U34		OPEN	B 10			
U35	C10344-7	74HC74AD DUAL D FLIP FLOP SOIC	C 7			
U36	128382-1	OPTO SFH615A-2 IEC65 COMPLIANT	A 10			
U37	126559-1	COMPARATOR, LM393 SO-8 DUAL	D B B B			
U99	C 9038-8					
U100	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	P 5			
U101	126548-1	COMPARATOR, LM361 HI SPD 50-14	N 5			
-						
ONTROLLED C NCLUDING AS	OPY, COPIES OF T	ED INK BY CM AS A				
HESE DRAWI PROPERTY OF HALL NOT B	NGS AND SPECIFIC CROWN INTERNATI E REPRODUCED, CO	DNAL, INC. AND A 126218	-14			
C THE BAST	S FOR THE MANUFA S OR DEVICES WIT	CTURE OR SALE HOUT PERMISSION SCALE NONE PROJ NO. MD425DØ SHE	ET 39 OF 48			



No.2         128561-1         REG.         +5V         LOW POWER SO-B         N         5           10184         126541-1         COMPARATOR.         LM361         H1 SPD SO-14         N         6           10180         125611-1         REG.         +5V         LOW POWER SO-B         N         5           10180         125640-1         LC OUMPARATOR.         LM33 SO-B         DUAL         N         7           10180         125549-1         HCPL0801         HI SPEED OPTO         M         7           10180         126559-1         COMPARATOR.         DUAL OP AMP         P         5           10111         C 9032-8         COMPARATOR.         DUAD LM339D SO-14         O         2           10112         C 9038-8         COMPARATOR.         DUAD LM339D SO-14         M         4           10115         C 9038-8         COMPARATOR.         DUAD LM339D SO-14         M         4           10117         C 9038-8         COMPARATOR.         DUAD LM339D SO-14         M         4           10117         C 9038-8         COMPARATOR.         DUAD LM339D SO-14         M         4           10117         C 9038-8         COMPARATOR.         DUAD LM339D SO-14         <			PARTS LIST						
D102         126548-1         COMPARATOR. LM301 MI SPD S0-14         N 6           U103         126548-1         CCMPARATOR. LM301 MI SMT         N 6           U105         125869-1         OP AMP LM310M SMT         N 6           U106         125545-1         HCPL0601 HI SPEED OPTO         M 7           U107         125545-1         HCPL0601 HI SPEED OPTO         M 7           U108         126559-1         COMPARATOR. LM303 S0-8 DUAL         N 7           U108         126559-1         COMPARATOR. LM303 S0-6 DUAL         N 7           U110         C 9812-3         OP AMP. QUAD LO NOISE MC33079D         05           U112         C 9838-8         COMPARATOR. QUAD LM339D S0-14         M 5           U113         C 9838-8         COMPARATOR. QUAD LM339D S0-14         M 4           U116         C 9838-8         COMPARATOR. QUAD LM339D S0-14         M 4           U117         C 9838-8         COMPARATOR. QUAD LM339D S0-14         M 2           U118         125541-1         MC6. +SV LOW POWER 50-8         K 5           U119         125544-1         MC341511 HI SPEED OPTO         K 1           U120         125545-1         HCPL0611 HI SPEED OPTO         K 1           U121         125545-1         HCPL	REF DES	C.P.N.	DESCRIPTION	MAP LOC.					
D103         125545-1         REG. *5V LOW POWER 50-8         N         N         6           U105         125689-1         OP AMP LM318M SMT         N         6           U105         125649-1         IC.QUAD Z INPUT NOR GATE SO-14         M         6           U107         125545-1         HCPL0801 HI SPEED OPTO         M         7           U108         126559-1         COMPARATOR. LM39 SO-8 DUAL         N         7           U108         126559-1         COMPARATOR. UA39 SO-8 DUAL         O         A           U108         126559-1         COMPARATOR. OUAD LM339D SO-14         O         2           U111         C 9038-8         COMPARATOR. OUAD LM339D SO-14         M         4           U114         C 9038-8         COMPARATOR. OUAD LM399D SO-14         M         4           U117         C 9038-8         COMPARATOR. OUAD LM399D SO-14         M         4           U117         C 9038-8         COMPARATOR. OUAD LM399D SO-14         M         4           U117         C 9038-8         COMPARATOR. OUAD LM399D SO-14         M         4           U117         C 9038-8         COMPARATOR. OUAD LM399D SO-14         M         4           U118         125545-1         HCPL06511	U102	126561-1	REG, +5V LOW POWER SO-8	N 5					
U104       125651-1       REG. +5V LOW POWER SO-8       N E         U105       125648-1       IC. OUAD 2 INPUT NOR GATE SO-14       M 6         U107       125545-1       HCPL0601 HI SPEED OPTO       M 7         U108       126559-1       COMPARATOR. LM39 SO-8 DUAL       N 7         U110       C 82559-1       COMPARATOR. LM39 SO-8 DUAL       N 7         U110       C 82559-1       COMPARATOR. LM39 SO-8 DUAL       N 7         U112       C 9038-8       COMPARATOR. OUAD LO NOISE MEJ307D       O 5         U113       C 9038-8       COMPARATOR. OUAD LM39D SO-14       M 4         U114       C 9038-8       COMPARATOR. OUAD LM39D SO-14       M 4         U115       C 9038-8       COMPARATOR. OUAD LM39D SO-14       M 4         U116       C 9038-8       COMPARATOR. OUAD LM39D SO-14       M 4         U117       C 9038-8       COMPARATOR. OUAD LM39D SO-14       M 4         U119       125561-1       REG. +SV LOW POWER SO-8       K 8         U119       125541-1       MC3+151D HISPED DUAL M39D SO-14       M 4         U121       125542-1       HCPL0611 HI SPEED OPTO       K 9         U121       125545-1       HCPL061 HI SPEED OPTO       K 9         U122       1		126548-1	COMPARATOR, LM361 HI SPD 50-14	N 6					
U185         125859-1         OP AMP LM318M SMT         N 6           U186         125649-1         IC.OUAD 2 INPUT NOR GATE SO-14         M 6           U187         125545-1         HCPL8621 HI SPEED OPTO         M 7           U188         126559-1         COMPARATOR. LN333 SO-8 DUAL         N 7           U118         C 8262-5         MC3307BD LOW NOISE DUAL OP AMP         P 5           U111         C 9012-3         OP AMP. QUAD LO NOISE MC33079D         O 5           U113         C 9038-8         COMPARATOR. QUAD LM339D SO-14         M 4           U114         C 9038-8         COMPARATOR. QUAD LM339D SO-14         M 4           U115         C 9038-8         COMPARATOR. QUAD LM339D SO-14         M 4           U116         C 9038-8         COMPARATOR. QUAD LM339D SO-14         M 2           U117         C 9038-8         COMPARATOR. QUAD LM339D SO-14         M 2           U118         126581-1         REG. +SV LOW POWER SO-8         K 9           U120         125544-1         MC34151D HISPP DUAL MOSFET DVR         J 9           U121         125544-1         MC34151D HISPP DUAL MOSFET DVR         J 1           U122         125651-1         REG. +SV LOW POWER SO-8         K 11           U121         125									
U186         126549-1         IC, OLAD 2 INPUT NOR GATE SO-14         M 6           U187         125645-1         HCPL0621 HI SPEED OPTO         M 7           U188         126559-1         COMPRATOR, LM33 SO-8 DUAL         N 7           U118         C 82552-5         MC33075D LOW NOISE DUAL OP AMP         P 5           U112         C 9012-3         OP AMP, OUAD LO NOISE MC3079D         O.5           U112         C 9038-8         COMPARATOR, OUAD LM339D SO-14         M 4           U113         C 9038-8         COMPARATOR, OUAD LM339D SO-14         M 4           U114         C 9038-8         COMPARATOR, OUAD LM339D SO-14         M 4           U115         C 9038-8         COMPARATOR, OUAD LM339D SO-14         M 4           U116         C 9038-8         COMPARATOR, OUAD LM339D SO-14         M 4           U117         C 9038-8         COMPARATOR, OUAD LM393D SO-14         M 2           U118         125545-1         HCPL0611 HI SPEED OPTO         K 9           U121         125544-1         MC34151D HISPD DUAL MOSFET DVR         J 1           U122         125544-1         MC34151D HISPD DUAL MOSFET DVR         J 1           U124         C 10344-7         74HC74AD DUAL D FLP FLOP SOIC         L 6           U2280 <td></td> <td>125869-1</td> <td>OP AMP LM318M SMT</td> <td>N 6</td>		125869-1	OP AMP LM318M SMT	N 6					
U107         125545-1         HCPL 6601         HI SPEED OPTO         M 7           U108         126559-1         COMPARATOR, LM393 S0-8 DUAL         N 7           U111         C 9212-3         OP AMP, OLAD LO NOISE DUAL OP AMP         P 5           U111         C 9038-8         COMPARATOR, OLAD LM 339D S0-14         M 5           U114         C 9038-8         COMPARATOR, OLAD LM339D S0-14         M 4           U115         C 9038-8         COMPARATOR, OLAD LM339D S0-14         M 4           U115         C 9038-8         COMPARATOR, OLAD LM339D S0-14         M 4           U115         C 9038-8         COMPARATOR, OLAD LM339D S0-14         M 4           U116         C 9038-8         COMPARATOR, OLAD LM339D S0-14         M 4           U117         C 9038-8         COMPARATOR, OLAD LM339D S0-14         M 6           U118         126554-1         HCFL0611 HI SPEED OPTO         K 5           U120         125545-1         HCFL0611 HI SPEED OPTO         K 5           U121         125545-1         HCFL0611 HI SPEED OPTO         K 11           U122         125545-1         HCFL0611 HI SPEED OPTO         K 11           U123         125545-1         HCFL06141 SPEED OPTO         K 11           U124				м б					
U108         128559-1         COMPARATOR. LM333 S0-8 DUAL         N Z           U118         C 8262-5         MC3307BD LOW NOISE DUAL OP AMP         P 5           U111         C 9012-3         OP AMP. QUAD LO NOISE MC3079D         O 5           U112         C 9038-8         COMPARATOR. QUAD LM339D S0-14         O 2           U113         C 9038-8         COMPARATOR. QUAD LM339D S0-14         M 4           U115         C 9038-8         COMPARATOR. QUAD LM339D S0-14         M 4           U116         C 9038-8         COMPARATOR. QUAD LM339D S0-14         M 4           U117         C 9038-8         COMPARATOR. QUAD LM339D S0-14         M 4           U118         125541-1         RES. *5Y LOW POWER S0-8         M 5           U119         125545-1         HCPL0611 H1 SPEED DPTO         K 9           U121         125545-1         HCPL0611 H1 SPEED DPTO         K 9           U122         125545-1         HCPL0611 H1 SPEED DPTO         K 11           U123         125545-1         HCPL0611 H1 SPEED DPTO         K 11           U124         C 10344-7         74HC74AD DUAL D FLIP FLOP SOIC         L 6           U280         C 9012-3         OP AMP. QUAD LO NOISE MC33079D         N 2           U280         125545				M 7					
U110         C 6262-5         MC33076D LOW NOISE DUAL OP AMP         P 5           U111         C 9012-3         OP AMP. QUAD LO NOISE MC3079D         05           U112         C 9030-8         COMPARATOR. QUAD LM33D S0-14         M5           U113         C 9030-8         COMPARATOR. QUAD LM33D S0-14         M4           U115         C 9030-8         COMPARATOR. QUAD LM33D S0-14         M4           U115         C 9030-8         COMPARATOR. QUAD LM33D S0-14         M4           U116         C 9030-8         COMPARATOR. QUAD LM33D S0-14         M4           U117         I25545-1         HCPL0611 HI SPEED OPTO         K5           U120         125561-1         REG. +5V LOW POWER S0-8         K1           U121         125561-1         REG. +5V LOW POWER S0-8         K1           U220         C 9012-3         OP AMP. QUAD LO NOISE MC33079D         N2           U221         125545-1				N 7					
U111         C 9012-3         OF AMP. QUAD LO NOISE MC33079D         O 5           U112         C 9030-B         COMPARATOR. QUAD LM33D SO-14         O 2           U113         C 9030-B         COMPARATOR. QUAD LM33D SO-14         M 5           U114         C 9030-B         COMPARATOR. QUAD LM33D SO-14         M 4           U115         C 9038-B         COMPARATOR. QUAD LM33D SO-14         M 4           U116         C 9038-B         COMPARATOR. QUAD LM33D SO-14         M 4           U117         C 9038-B         COMPARATOR. QUAD LM33D SO-14         M 2           U118         I25561-1         RE5. +SV LOW POWER SO-8         K 9           U119         125544-1         MC34151D HISPD DUAL MOSFET DVR         J 9           U121         125545-1         HCPL061 HI SPEED OPTO         K 11           U123         125545-1         HCPL061 HI SPEED DPTO         K 11           U124         C13244-7         74HC74AD DUAL D FLIP FLOP SOIC         L 6           U125         C 9012-3         OP AMP, QUAD LO NOISE MC33079D         P 4           U280         C 28561-1         RE6. +SV LOW POWER SO-8         N 4           U281         125561-1         RE6. +SV LOW POWER SO-8         N 4           U280         125561-1<				P 5					
U112         C 9938-B         COMPARATOR, OUAD LM339D SO-14         O 2           U113         C 9938-B         COMPARATOR, OUAD LM339D SO-14         M 5           U114         C 9938-B         COMPARATOR, OUAD LM339D SO-14         M 4           U115         C 9938-B         COMPARATOR, OUAD LM339D SO-14         M 4           U116         C 9938-B         COMPARATOR, OUAD LM339D SO-14         M 4           U117         C 9938-B         COMPARATOR, OUAD LM339D SO-14         M 2           U118         125545-1         REG. +SV LOW POWER SO-8         K 8           U119         125545-1         HCPL0611 HI SPEED DPTO         K 9           U120         125545-1         HCPL0611 HI SPEED OPTO         K 11           U121         125545-1         HCPL0611 HI SPEED OPTO         K 11           U122         125545-1         HCPL0611 HI SPEED OPTO         K 11           U123         125545-1         HCPL0611 HI SPEED OPTO         K 11           U124         C 10344-7         Z 4HC74AD DUAL D FLIP FLOP SOIC         L 6           U280         C 9812-3         DP AMP, OUAD LO NOISE MC33073D         P 4           U281         126548-1         COMPARATOR, LM361 HI SPD SO-14         N 4           U281         126548-1				05					
U113         C 9938-8         COMPARATOR. DUAD LM339D SO-14         M 4           U114         C 9938-8         COMPARATOR. DUAD LM339D SO-14         M 4           U115         C 9938-8         COMPARATOR. DUAD LM339D SO-14         L 8           U116         C 9938-8         COMPARATOR. DUAD LM339D SO-14         M 4           U117         C 9938-8         COMPARATOR. DUAD LM339D SO-14         M 2           U118         125545-1         REG. *5V LOW POWER SO-8         K 9           U120         125544-1         MC34151D HISPD DUAL MOSFET DVR         J 9           U121         125544-1         MC34151D HISPD DUAL MOSFET DVR         J 11           U122         125545-1         HCPL0601 HI SPEED DPTO         K 11           U123         125545-1         HCPL0601 HI SPEED DPTO         K 11           U124         C10344-7         74HC74AD DUAL D FLIP FLOP SOIL         L 6           U280         C 9012-3         OP AMP. OLAD LO NDISE MC33079D         N 4           U281         1265541-1         REG. +5V LOW POWER SO-8         N 4           U281         1265541-1         REG. +5V LOW POWER SO-8         N 4           U282         126551-1         REG. +5V LOW POWER SO-8         N 4           U283         12564				0 2					
U114         C         9039-8         COMPARATOR.         OUAD         LM339D         SO-14         M           U115         C         9038-8         COMPARATOR.         OUAD         LM339D         SO-14         M           U116         C         9038-8         COMPARATOR.         OUAD         LM339D         SO-14         O           U118         126551-1         REG.         FSV         LOW POWER         SO-8         K         K           U120         125546-1         HCPL0611         HI SPEED OPTO         K         S           U121         125544-1         MC34151D         HISPD DUAL         MOSFET DVR         J         9           U121         125545-1         HCPL0611         HSPED OPTO         K         11           U122         126548-1         HCPL0601         HSPED OPTO         K         11           U122         126548-1         RCMPARATOR.         LMAD         D         N         2           U280         C         9012-3         DP AMP.         OUAD         N 0155         MC33879D         N         2           U281         126548-1         COMPARATOR.         LM361         HI SPD SO-14         N         3				м 5					
DI14       L 3038-8       COMPARATOR. QUAD LM339D 50-14       L 8         U115       C 9038-8       COMPARATOR. QUAD LM339D 50-14       M 4         U117       C 9038-8       COMPARATOR. QUAD LM339D 50-14       M 4         U117       C 9038-8       COMPARATOR. QUAD LM339D 50-14       M 4         U118       125546-1       REG. +5V LOW POWER 50-8       K 9         U120       125544-1       MC34151D H1SPD DUAL MOSFET DVR       J 9         U121       125544-1       MC34151D H1SPD DUAL MOSFET DVR       J 1         U122       125545-1       HEG. +5V LOW POWER S0-8       K 11         U123       125545-1       HCPL0601 H1 SPEED OPTO       K 11         U123       125545-1       HCPL0601 H1 SPEED OPTO       K 11         U123       C 9012-3       OP AMP, OLAD LO NOISE MC33079D       N 2         U208       C 9012-3       OP AMP, OLAD LO NOISE MC33079D       N 4         U2091       126548-1       COMPARATOR. LM361 H1 SPD S0-14       N 4         U2021       126548-1       COMPARATOR. LM361 H1 SPD S0-14       N 3         U203       126548-1       COMPARATOR. LM361 H1 SPD S0-14       N 3         U204       126548-1       COMPARATOR. LM361 M1 SPD S0-14       N 4									
U116       C       9038-8       COMPARATOR.       OUAD       LM339D       S0-14       M       4         U117       C       9038-8       COMPARATOR.       OUAD       LM339D       S0-14       O       2         U118       125551-1       REG.       +SV       LOW POWER       S0-8       K       B         U119       125544-1       MC34151D       HISPD       DUAL       MOSFET       DVR       J       9         U121       125544-1       MC34151D       HISPD       DUAL       MOSFET       DVR       J       11         U122       125545-1       MC2681       HISPD       DUAL       MOSFET       DVR       J       11         U124       C18344-7       74HC74AD       DUAL       D FLIP FLOP SOIC       L 6         U280       C       9012-3       OP AMP. OUAD LO       NOISE       MC33879D       N 4         U281       125548-1       COMPARATOR.       LM361       HI SPD SO-14       N 4         U281       125548-1       COMPARATOR.       LM361       M 5       N 3         U284       12558-1       REG.       +5V       LOW POWER SO-8       N 3         U281       125546-1									
DT18         C 9038-8         COMPARATOR. QUAD LM339D 50-14         0 2           U119         126561-1         RE5. +5V LOW POWER S0-8         K B           U119         125544-1         MC34151D HISPD DUAL MOSFET DVR         J 9           U121         125544-1         MC34151D HISPD DUAL MOSFET DVR         J 11           U122         125544-1         MC34151D HISPD DUAL MOSFET DVR         J 11           U123         125545-1         HCPL0601 HI SPEED OPTO         K 11           U123         125545-1         HCPL0601 HI SPEED OPTO         K 11           U123         125545-1         HCPL0601 HI SPEED OPTO         K 11           U124         C 9012-3         OP AMP, OUAD LO NOISE MC33079D         N 2           U280         C 9012-3         OP AMP, OUAD LO NOISE MC33079D         P 4           U281         126561-1         REG. +5V LOW POWER SO-8         N 4           U281         126561-1         REG. +5V LOW POWER SO-8         N 3           U281         125545-1         COMPARATOR. LM391 MIST         N 4           U281         125545-1         HCPL0601 HI SPEED OPTO         P 7           U281         125545-1         HCPL0601 HI SPEED OPTO         P 7           U280         125545-1									
DIT1       L2554-1       REG. +5V LOW POWER SO-8       K B         U119       125540-1       HCPL0611 HI SPEED OPTO       K 9         U120       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 9         U121       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 11         U122       125545-1       HCPL0611 HI SPED DUAL MOSFET DVR       J 11         U123       125545-1       HCPL0611 HI SPED DUAL MOSFET DVR       J 11         U124       C18344-7       74HC74AD DUAL D FLIP FLOP SOIC       L 6         U124       C18344-7       74HC74AD DUAL D NOISE MC33879D       N 2         U280       C 9012-3       OP AMP, QUAD LO NOISE MC33879D       N 4         U281       125548-1       COMPARATOR, LM361 HI SPD SO-14       N 4         U281       126561-1       REG. +5V LOW POWER SO-8       N 4         U283       126561-1       REG. +5V LOW POWER SO-8       N 4         U284       126561-1       REG. +5V LOW POWER SO-8       N 4         U280       125848-1       COMPARATOR, LM393 SO-14       N 3         U281       125545-1       HCPL0601 HI SPED OPTO       P 7         U281       126559-1       COMPARATOR, UA393 SO-6 DUAL       P 7         U210									
U119       125546-1       HCPL0611 HI SPEED OPTO       K 9         U120       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 9         U121       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 11         U122       126561-1       REG. +5V LOW POWER S0-8       K 11         U123       125545-1       HCPL0601 HI SPEED OPTO       K 11         U124       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       L 6         U125       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       N 2         U200       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       P 4         U201       126561-1       REG. +5V LOW POWER S0-8       N 4         U202       126561-1       REG. +5V LOW POWER S0-8       N 4         U205       125648-1       COMPARATOR, LM361 HI SPD S0-14       N 3         U204       126561-1       REG. +5V LOW POWER S0-8       N 4         U207       125545-1       HCPL0601 HI SPEED OPTO       P 7         U218       C 8028-5       MC33078D LOW NOISE MC33079D       O 3         U210       C 8262-5       MC33078D LOW NOISE MC33079D       O 3         U211       C 9038-6       COMPARATOR, OUAD LO NOISE MC33079D       O 3         U214 <t< td=""><td></td><td></td><td></td><td></td></t<>									
U120       125544-1       MC34151D       HISPD DUAL       MOSFET DVR       J 9         U121       125544-1       MC34151D       HISPD DUAL       MOSFET DVR       J 11         U122       125545-1       REG. +SV LOW POWER SO-8       K 11         U123       125545-1       HCPL0601       HISPED OPTO       K 11         U124       C10344-7       74HC74AD       DUAL       D FLIP       FLOP SOIC       L 6         U260       C 9012-3       OP AMP, OUAD LO NOISE MC33075D       P 4         U201       126548-1       COMPARATOR, LM361 HI SPD SO-14       N 4         U202       126561-1       REG. +5V LOW POWER SO-8       N 3         U204       126561-1       REG. +5V LOW POWER SO-8       N 3         U204       126561-1       REG. +5V LOW POWER SO-8       N 3         U204       126561-1       REG. +5V LOW POWER SO-8       N 3         U204       126561-1       REG. +5V LOW POWER SO-8       N 4         U204       126561-1       REG. +5V LOW POWER SO-8       N 4         U208       126505-1       COMPARATOR, LM393 SO-8 DUAL       P 7         U218       126561-1       REG. +5V LOW POWER SO-8       N 4         U210       C 8262-5       <									
U120       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 11         U121       125541-1       REG. +5V LOW POWER 50-8       K 11         U123       125545-1       HCPL0601 HI SPED OPTO       K 11         U124       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       L 6         U125       C 9012-3       OP AMP, OUAD LO NDISE MC33079D       P 4         U200       C 9012-3       OP AMP, OUAD LO NDISE MC33079D       P 4         U201       126548-1       COMPARATOR, LM361 HI SPD SO-14       N 4         U202       126561-1       REG. +5V LOW POWER SO-8       N 4         U203       126548-1       COMPARATOR, LM361 HI SPD SO-14       N 3         U204       126551-1       REG. +5V LOW POWER SO-8       N 3         U205       125845-1       HCPL0601 HI SPEED OPTO       P 7         U208       1265525       MC33078D LOW NOISE DUAL OP AMP       P 3         U210       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       P 3         U210       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       O 3         U214       C 9038-8       COMPARATOR, DUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, DUAD LM339D SO-14       M 3         U214<									
U121       125544-1       MCS4157 M125 M125 Data       K         U122       1255545-1       HCPL0601 HI SPEED OPTO       K       K         U123       125545-1       HCPL0601 HI SPEED OPTO       K       K         U124       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       L       L         U125       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       N 2         U200       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       P 4         U201       125548-1       COMPARATOR, LM361 HI SPD SO-14       N 4         U202       126561-1       REG, +5V LOW POWER SO-8       N 4         U203       125545-1       DP AMP LM318M SMT       N 4         U204       126559-1       COMPARATOR, LM393 SO-6 DUAL       P 7         U208       126559-1       COMPARATOR, LM393 SO-6 DUAL       P 7         U218       126559-1       COMPARATOR, OUAD LO NOISE MC33079D       O 3         U211       C 9038-8       COMPARATOR, OUAD LO NOISE MC33079D       O 3         U213       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 4         U215       12554-1       HCPL0601 HI SPEED OPTO       K 5     <									
D122       125545-1       HCPL0601 HI SPEED OPTO       K 11         U123       125545-1       HCPL0601 HI SPEED OPTO       K 11         U124       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       L 6         U125       C 9012-3       OP AMP, OUAD LO NDISE MC33079D       N 2         U200       C 9012-3       OP AMP, OUAD LO NDISE MC33079D       P 4         U201       126548-1       COMPARATOR, LM361 HI SPD SO-14       N 4         U202       126548-1       COMPARATOR, LM361 HI SPD SO-14       N 3         U204       125545-1       REG, +5V LOW POWER SO-8       N 3         U205       125869-1       OP AMP LM318M SMT       N 4         U207       125545-1       HCPL0601 HI SPEED OPTO       P 7         U208       126559-1       COMPARATOR, LM393 SO-8       DUAL       P 7         U218       C 8262-5       MC32078D LOW NOISE DUAL OP AMP       P 3         U211       C 9038-8       COMPARATOR, OUAD LO NOISE MC33079D       O 3         U214       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 4         U214       125546-1       HCPL0611 HI SPEED OPTO       K 5         U220       12546-1       HCPL0611 HI SPEED OPTO       K 5         U221	U121	125544-1							
D123       123/12       124/12       101/12	U122	126561-1							
D124       C19012-3       DP       AMP. QUAD LO       NDISE       MC33079D       N       2         U200       C       9012-3       DP       AMP. QUAD LO       NDISE       MC33079D       P       4         U201       126546-1       COMPARATOR, LM361 HI SPD SO-14       N       4         U201       126546-1       COMPARATOR, LM361 HI SPD SO-14       N       4         U203       126561-1       REG, +5V LOW POWER SO-8       N       3         U204       126561-1       REG, +5V LOW POWER SO-8       N       4         U205       125863-1       OP AMP LM318M SMT       N       4         U207       125545-1       HCPLØ501 HI SPEED OPTO       P       7         U218       126559-1       COMPARATOR, DUAD LO NOISE MC33079D       O       3         U210       C       9262-5       MC33078D LOW NOISE MC33079D       O       3         U210       C       9262-5       MC33078D LOW NOISE MC33079D       O       3         U214       C       9038-8       COMPARATOR, OUAD LM339D SO-14       M       4         U214       C       9038-8       COMPARATOR, DUAD LM339D SO-14       M       4         U214       C	U123	125545-1							
D123       C       9012-3       DF       AMP.       DUAD LO       NOISE       MC33079D       P       4         U201       126548-1       COMPARATOR, LM361       HI SPD SO-14       N       4         U202       126561-1       REG.       +5V       LOW POWER SO-8       N       4         U203       126548-1       COMPARATOR, LM361       HI SPD SO-14       N       3         U204       126561-1       REG.       +5V       LOW POWER SO-8       N       3         U204       1265545-1       COMPARATOR, LM393       SO-8       N       4         U205       125869-1       OP AMP       LOW POWER SO-8       N       4         U204       126553-1       HCPLØ601       HI SPEED OPTO       P       7         U218       126569-1       COMPARATOR, LM393       SO-6       DUAL       P       7         U210       C       9038-8       COMPARATOR, OUAD LO       N01SE       MC3079D       O       3         U213       C       9038-8       COMPARATOR, OUAD LM339D SO-14       M       4         U214       C       9038-8       COMPARATOR, OUAD LM339D SO-14       M       3         U214       1255	⊔124	C10344-7							
D290       L 3912-3       D1 AMA 1 CONPARATOR. LM361 HI SPD SD-14       N 4         U201       126548-1       COMPARATOR. LM361 HI SPD SD-14       N 3         U204       1265561-1       REG. +5V LOW POWER SD-8       N 4         U203       126561-1       REG. +5V LOW POWER SD-8       N 3         U204       126551-1       REG. +5V LOW POWER SD-8       N 3         U205       125659-1       COMPARATOR. LM391 MI SPD SD-14       N 4         U207       125545-1       HCPLØ601 HI SPEED OPTO       P 7         U208       126559-1       COMPARATOR. LM393 SD-8 DUAL       P 7         U210       C 9622-5       MC33078D LOW NOISE DUAL OP AMP       P 3         U211       C 9038-8       COMPARATOR. QUAD LO NOISE MC33079D       O 3         U213       C 9038-8       COMPARATOR. QUAD LM339D SD-14       M 4         U214       C 9038-8       COMPARATOR. QUAD LM339D SD-14       M 4         U218       125546-1       REG. +5V LOW POWER SD-8       K 4         U219       125544-1       MC34151D HISPE DUAL MOSFET DVR       J 5         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125544-1       MC34151D HISPE DOPTO       K 3         U222	U125	C 9012-3							
U2021       1205451-1       REG. +5V LOW POWER SO-8       N 4         U202       125561-1       REG. +5V LOW POWER SO-8       N 3         U204       125561-1       REG. +5V LOW POWER SO-8       N 3         U205       125869-1       OP AMP LM318M SMT       N 4         U207       125545-1       HCPL05061 HI SPEED OPTO       P 7         U208       126559-1       COMPARATOR, LM393 SO-8 DUAL       P 7         U208       126559-1       COMPARATOR, LM393 SO-8 DUAL       P 7         U218       126559-1       COMPARATOR, OUAD LO NOISE MC33079D       O 3         U211       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       O 3         U213       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 3         U218       126561-1       REG. +5V LOW POWER SO-8       K 4         U219       125546-1       HCPL0611 HI SPEED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125545-1       HCPL0601 HI SPEED OPTO       K 3         U223       125545-1       HCPL0601 HI SPEED OPTO       K 3         U224       C10344-7       <	U200	C 9012-3							
U202       120301 1       NED SUPERATOR. LM361 HI SPD S0-14       N 3         U203       125548-1       COMPARATOR. LM361 HI SPD S0-14       N 4         U203       125545-1       HCPLØ601 HI SPEED OPTO       P 7         U208       126545-1       HCPLØ601 HI SPEED OPTO       P 7         U208       126545-1       HCPLØ601 HI SPEED OPTO       P 7         U208       126545-1       HCPLØ601 HI SPEED OPTO       P 7         U208       12652-5       MC33079D LOW NOISE DUAL OP AMP       P 3         U210       C 8262-5       MC33079D LOW NOISE DUAL OP AMP       P 3         U211       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       O 3         U213       C 9038-8       COMPARATOR. OUAD LM393 S0-14       M 4         U214       C 9038-8       COMPARATOR. OUAD LM339D S0-14       M 4         U219       125546-1       HCPLØ611 HI SPEED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       125544-1       MC34151D HISPD OPTO       K 3         U223       125544-1       MC34051 HI SPEED OPTO       K 3         U224       C10344-7	U2Ø1	126548-1	COMPARATOR, LM361 HI SPD SO-14						
U203       12040       126551-1       REG. +5V LOW POWER SO-B       N.3         U204       126561-1       REG. +5V LOW POWER SO-B       N.4         U207       125545-1       HCPL0601 HI SPEED OPTO       P.7         U208       126559-1       COMPARATOR. LM393 SO-8 DUAL       P.7         U210       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       P.3         U211       C 9038-8       COMPARATOR. OUAD LO NOISE MC33079D       O.3         U213       C 9038-8       COMPARATOR. OUAD LM339D SO-14       M.4         U214       C 9038-8       COMPARATOR. OUAD LM339D SO-14       M.4         U218       125546-1       HCPL0611 HI SPEED OPTO       K.5         U220       125546-1       HCPL0611 HI SPEED OPTO       K.5         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J.5         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J.3         U222       126561-1       REG. +5V LOW POWER SO-8       K.2         U223       125545-1       HCPL0601 HI SPEED OPTO       K.5         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J.3         U222       126561-1       REG. +5V LOW POWER SO-8       K.2         U223 <td>U202</td> <td>126561-1</td> <td>REG, +5V LOW POWER SO-8</td> <td>N 4</td>	U202	126561-1	REG, +5V LOW POWER SO-8	N 4					
D284       1253011       INES/ FSF VE AS A       N 4         U205       125869-1       OP AMP LM318M SMT       P 7         U208       125545-1       HCPLØ601 HI SPEED OPTO       P 7         U208       126559-1       COMPARATOR, LM393 SO-6 DUAL       P 7         U210       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       P 3         U211       C 9012-3       OP AMP, QUAD LO NDISE MC3079D       O 3         U213       C 9038-8       COMPARATOR, QUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, QUAD LM339D SO-14       M 3         U218       126561-1       REG, +5V LOW POWER SO-8       K 4         U219       125546-1       HCPLØ611 HI SPEED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125545-1       HCPLØ611 HI SPEED OPTO       K 3         U223       125545-1       HCPLØ601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 12         1       126583-8       PW8. CE4000 MAIN	U203	126548-1	COMPARATOR, LM361 HI SPD SO-14	N 3					
U203       125003 1       OF AMM EMPTOD       P 7         U207       125545-1       HCPL0601 HI SPEED OPTO       P 7         U208       126559-1       COMPARATOR, LM393 SO-8 DUAL       P 7         U210       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       P 3         U211       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       O 3         U213       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 3         U218       126561-1       REG, +5V LOW POWER SO-8       K 4         U219       125546-1       HCPL0611 HI SPEED OPTO       K 5         U220       125546-1       HCPL0611 HI SPEED OPTO       K 5         U221       125546-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125545-1       HCPL0601 HI SPEED OPTO       K 2         U222       125545-1       HCPL0601 HI SPEED OPTO       K 3         U223       125545-1       HCPL0601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 11         126583-8       PWB, CE4000 MAIN	U204	126561-1	REG, +5V LOW POWER 50-8	<u>N 3</u>					
U207       125545-1       HCPL0601 HI SPEED OPTO       P 7         U208       126559-1       COMPARATOR, LM393 SO-8 DUAL       P 7         U210       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       P 3         U211       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       O 3         U213       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 3         U218       126561-1       REG, +5V LOW POWER SO-8       K 4         U219       125546-1       HCPL0611 HI SPEED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125545-1       HCPL0601 HI SPEED OPTO       K 3         U223       126561-1       REG, +5V LOW POWER SO-8       K 2         U221       125545-1       HCPL0601 HI SPEED OPTO       K 3         U222       126561-1       REG, +5V LOW POWER SO-8       K 2         U223       125545-1       HCPL0601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 12         3       103415-10805	U205	125869-1	OP AMP LM318M SMT	N 4					
U208       126559-1       COMPARATOR. LM393 SO-8 DUAL       P 7         U210       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       P 3         U211       C 9012-3       OP AMP. OUAD LO NOISE MC33079D       O 3         U213       C 9038-8       COMPARATOR. OUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR. OUAD LM339D SO-14       M 3         U218       126561-1       REG. +5V LOW POWER SO-8       K 4         U219       125546-1       HCPLØ611 HI SPED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125545-1       HCPLØ601 HI SPED OPTO       K 3         U223       125545-1       HCPLØ601 HI SPED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL. 4 MHZ HC49U SERIES       G 11         1       126583-8       PWB. CE4000 MAIN		125545-1	HCPL0601 HI SPEED OPTO	P 7					
U210       C 8262-5       MC33078D LOW NDISE DUAL OP AMP       P 3         U211       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       O 3         U213       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, OUAD LM339D SO-14       M 3         U218       126561-1       REG, +5V LOW POWER SO-8       K 4         U219       125546-1       HCPL0611 HI SPED OPTO       K 5         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       126561-1       REG, +5V LOW POWER SO-8       K 2         U223       125545-1       HCPL0601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB, CE4000 MAIN			COMPARATOR, LM393 50-8 DUAL	P 7					
U211       C 9012-3       OP AMP. QUAD LO NOISE MC33079D       0 3         U213       C 9038-8       COMPARATOR, QUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, QUAD LM339D SO-14       M 3         U218       126561-1       REG, +5V LOW POWER SO-8       K 4         U219       125546-1       HCPL0611 HI SPED DPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125545-1       HCPL0601 HI SPED OPTO       K 2         U222       126561-1       REG, +5V LOW POWER SO-8       K 2         U220       125545-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       126561-1       REG, +5V LOW POWER SO-8       K 2         U223       125545-1       HCPL0601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB. CE4000 MAIN				Р 3					
U213       C 9038-8       COMPARATOR, QUAD LM339D SO-14       M 4         U214       C 9038-8       COMPARATOR, QUAD LM339D SO-14       M 3         U218       126561-1       REG, +5V LOW POWER SO-8       K 4         U219       125546-1       HCPL0611 HI SPEED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 5         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       126561-1       REG, +5V LOW POWER SO-8       K 2         U223       125545-1       HCPL0601 HI SPED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB, CE4000 MAIN				03					
U214       C 9038-8       COMPARATOR. QUAD LM339D S0-14       M 3         U218       126561-1       REG, +5V LOW POWER SD-8       K 4         U219       125546-1       HCPL0611 HI SPEED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       126561-1       REG. +5V LOW POWER SD-8       K 2         U223       125545-1       HCPL0601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB. CE4000 MAIN				M 4					
U218       126561-1       REG, +5V LDW POWER SD-8       K 4         U219       125546-1       HCPLØ611 HI SPEED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       126561-1       REG, +5V LOW POWER SD-8       K 2         U223       125545-1       HCPLØ601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB, CE4000 MAIN				мз					
U219       125546-1       HCPL0611 HI SPEED OPTO       K 5         U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       125545-1       HCPL0601 HI SPEED OPTO       K 3         U223       125545-1       HCPL0601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB. CE4000 MAIN				К 4					
U220       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 5         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       126561-1       REG. +5V LOW POWER SD-8       K 2         U223       125545-1       HCPLØ6Ø1 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB. CE4000 MAIN									
U220       125541-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U221       125544-1       MC34151D HISPD DUAL MOSFET DVR       J 3         U222       126561-1       REG. +5V LOW POWER SO-8       K 2         U223       125545-1       HCPLØ6Ø1 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB. CE4000 MAIN									
U222       126561-1       REG. +5V LOW POWER SD-8       K 2         U223       125545-1       HCPLØ6Ø1 HI SPEED OPTO       K 3         U224       C1Ø344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C1Ø476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB. CE4ØØØ MAIN									
U222       12551       HED/051 DI NOVENTO       K 3         U223       125545-1       HCPLØ601 HI SPEED OPTO       K 3         U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB. CE4000 MAIN									
U224       C10344-7       74HC74AD DUAL D FLIP FLOP SOIC       N 5         Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB. CE4000 MAIN									
Y1       C10476-7       CRYSTAL, 4 MHZ HC49U SERIES       G 13         1       126583-8       PWB, CE4000 MAIN									
1       126583-8       PWB, CE4000 MAIN         1       126583-8       PWB, CE4000 MAIN         3       103415-10805 SCREW, 8-32X.312 TORX PNHD SEM         4       126923-4       INSULATOR, CE4K HEATSINK NOMEX         5       128130-1       RIVET, CE4000 INS RET PLASTIC         UNCONTROLLED         LESS OTHERWISE MARKED IN RED INK BY CM AS A         NTROLLED COPY, COPIES OF THESE DOCUMENTS         LUDING ASSOCIATED DLECTRONIC REPRODUCTIONS         FOR REFERENCE DNLY.									
3       103415-10805       SCREW, 8-32X.312 TORX PNHD SEM         4       126923-4       INSULATOR, CE4K HEATSINK NOMEX         5       128130-1       RIVET, CE4000 INS RET PLASTIC         6       0       0         UNCONTROLLED         LESS OTHERWISE MARKED IN RED INK BY CM AS A NTROLLED COPY, COPIES OF THESE DOCUMENTS CLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS         EFOR REFERENCE ONLY.				6 13					
4       126923-4       INSULATOR. CE4K HEATSINK NOMEX         5       128130-1       RIVET. CE4000 INS RET PLASTIC         UNCONTROLLED         LESS OTHERWISE MARKED IN RED INK BY CM AS A         NTROLED COPY. COPIES OF THESE DOCUMENTS         LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS         FOR REFERENCE DNLY.	1	126583-8	PWB, LE4000 MAIN						
4       126923-4       INSULATOR. CE4K HEATSINK NOMEX         5       128130-1       RIVET. CE4000 INS RET PLASTIC         6       0       0         UNCONTROLLED         LESS OTHERWISE MARKED IN RED INK BY CM AS A         NTROLLED COPY. COPIES OF THESE DOCUMENTS         CLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS         FOR REFERENCE ONLY.									
5       128130-1       RIVET. CE4000 INS RET PLASTIC         5       128130-1       RIVET. CE4000 INS RET PLASTIC         6       0       0         1       0       0	3	103415-10805							
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CE4000 MAIN PWA NUMBER: 126218-14 DRAWING SHEET: 41



CE4000 MAIN PWA NUMBER: 126218-14 DRAWING SHEET: 42



REVISION HISTORY												
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PARTS LIST									
C D N			DEEEDENCE DECICNATION						
C.P.N.	DESCRIPTION		REFERENCE DESIGNATION						
A11368-10021	10K 1/10W 1% SMD 0805 T/R	17	R7, R8, R9, R10, R11, R12, R25,						
·			R26, R31, R32, R33, R34, R47,						
			R50, R55, R57, R59						
	10 OHM 0.25W 1% 1210 T/R	1	R49						
A11368-11321	11.3KOHM .1W 1% CHIP 0805	4	R5, R19, R29, R41						
A11368-14331	143K OHM .1W 1% 0805 T/R	2	R13, R35						
A11368-15011	1.5K 1/10W 1% SMD 0805 T/R	1	R48						
A11368-15021	15.0K, 0.10W 1% MF 0805	2	R18, R40						
A11368-15831	158KOHM .1W 1% 0805 T/R	2	R24,R46						
A11368-19631	196K OHM .1W 1% 0805 T/R	2	R23, R45						
A11368-20011	2.0K, 0.10W 1% MF 0805	2	R2, R27						
A11368-22621	22.6K OHM .1W 1% 0805 T/R	2	R16, R38						
A11368-26111	2.61K 0.1W 1% 0805 T/R	2	R4, R28						
A11368-26131	261K OHM .1W 1% 0805 T/R	2	R22, R44						
A11368-28722	RES 28.7K 1% SMD 1206	2	R15, R37						
A11368-30101	301 OHM .1W 1% 0805 T/R	2	R52, R53						
A11368-38322	RES 38.3K 1% SMD 1206	2	R14, R36						
A11368-56221	56.2K OHM .1W 1% 0805 T/R	2	R17, R39						
A11368-88711	8.87KOHM .1W 1% CHIP 0805	4	R6, R20, R30, R42						
A11368-97631	976K OHM .1W 1% 0805 T/R	2	R21, R43						
A11369-330J2	33 PF 50V 5% NPO MLC 0805	3	C2, C38, C39						
	.01 UF 50V 10% X7R MLC 0805	В	C30.C31.C32.C33.C34.C35.						
A11427-103K2	. 01 OF 50V 10% A/R MEL 0605								
	ALLE FRY CUTD CAD ARK BORE YOD								
A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	6							
A11427-124K5	0.12 50V 10% CHIP X7R 1206	4							
A11427-154K5	0.15 50V 10% CHIPX7R 1206	4	C5, C9, C19, C23						
A11427-224J5	0.22UF 50V 5% X7R 1206 T/R	4							
A11427-274K5	0.27UF 50V 105 X7R 1206 T/R	4	C3, C7, C17, C21						
C 7251-9	.22UF 25V CHIP CAPACITOR	2	C15, C29						
C 7325-1	2POLE 2POS PC SLIDE SWITCH	1	52						
C 8262-5	MC3307BD LOW NOISE DUAL OP AMP	2	U3,U4						
C 9012-3	OP AMP, QUAD LO NOISE MC33079D	2	U6,U7						
C 9049-5	100PF 100V CERAMIC CHIP CAP	2	C1.C16						
101993-1	JACK, 6P4 COND MODULAR R/A	1	73						
102472-3	CONN, 12PDS .1CTR ASSY SGL ROW	1	J2						
102486-1	OPTO BJT NPN SOIC-B CTR=100%	1	US						
102723-2	OPTOCELL ON . 5KOHM OFF >10M55EC	2	U1,U2						
125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	1	Q1						
126827-B	PWB, CE4000 BFG	1	1						
127386-1	SWITCH, 4P3T SLIDE R/A PCB MNT	2	53,54						
127387-1	SWITCH. 4P4T SLIDE R/A PCB MNT	2							
127412-1	SWITCH, DP3T SLIDE R/A PCB MNT	1	S1						
128180-1	2.2UF 25V +80/-20 Y5V 1206 CAP	2	C14, C28						
128182-4	CABLE, 26PDS AMP-3M BFG MAIN	1	J1						
120102 "7	CABLE, 20105 AMI SMI BIG MAIN	· · · ·							
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UNLESS OTHERWISE MA CONTROLLED COPY, CO	UNCONTROLLED NLESS OTHERWISE MARKED IN RED INK BY CM AS A DNTROLLED COPY, COPIES OF THESE DOCUMENTS NCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS NCLUDING ASSOCIATED CONTROLLED NCLUDING								
THESE DRAWINGS AND PROPERTY OF CROWN	HESE DRAWINGS AND SPECIFICATIONS ARE THE ROPERTY OF CROWN INTERNATIONAL, INC. AND HALL NOT BE REPRODUCED, COPIED, OR USED A 126828-7								
AS THE BASIS FOR TH	AS THE BASIS FOR THE MANUFACTURE OR SALE								
OF APPARATUS OR DEVICES WITHOUT PERMISSION. SCALE NONE PROJ NO. MD42500 SHEET 2 OF B									



		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C1	C 9049-5	100PF 100V CERAMIC CHIP CAP	F 2
C2	A11369-330J2	33 PF 50V 5% NPO MLC 0805	F 1*
С3	A11427-274K5	0.27UF 50V 105 X7R 1206 T/R	B 1*
C4	A11427-224J5	0.22UF 50V 5% X7R 1206 T/R	B 1
C5	A11427-154K5	0.15 50V 10% CHIPX7R 1206	B 1*
C6	A11427-124K5	0.12 50V 10% CHIP X7R 1206	81
C7	A11427-274K5	0.27UF 50V 105 X7R 1206 T/R	B 1*
СВ	A11427-224J5	0.22UF 50V 5% X7R 1206 T/R	B 1
C9	A11427-154K5	0.15 50V 10% CHIPX7R 1205	B 1*
C10		0.12 50V 10% CHIP X7R 1205	B 1
C11	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 1
C12		.1UF 50V CHIP CAP 10% 0805 X7R	A 1
C13		.1UF 50V CHIP CAP 10% 0805 X7R	A 1
C14	128180-1	2,2UF 25V +80/-20 Y5V 1206 CAP	A 1
C15	C 7251-9	.22UF 25V CHIP CAPACITOR	A 1
	· · · · · · · · · · · · · · · · · · ·		
C16	C 9049-5	100PF 100V CERAMIC CHIP CAP	<u>E 2</u>
C17		0.27UF 50V 105 X7R 1206 T/R	D 1*
C18		0.22UF 50V 5% X7R 1206 T/R	
C19		0.15 50V 10% CHIPX7R 1206	D 1*
C20		0.12 50V 10% CHIP X7R 1206	D 1
C21		0.27UF 50V 105 X7R 1206 T/R	D 1*
C22		0.22UF 50V 5% X7R 1206 T/R	D 1
C23		0.15 50V 10% CHIPX7R 1206	D 1*
C24		0.12 50V 10% CHIP X7R 1206	D 1
C25	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	C 1
C26	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u>C 1</u>
C27	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	C 1
C28	128180-1	2.2UF 25V +80/-20 Y5V 1206 CAP	C 1
C29	C 7251-9	.22UF 25V CHIP CAPACITOR	C 1
C30	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	E 1*
C31	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	E 1*
C32	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	F 1*
C33	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	F 1*
C34	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	B 1*
C35	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	A 1*
C36	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	D 1*
C37	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	C 1*
C38		33 PF 50V 5% NPO MLC 0805	A 1
C39		33 PF 50V 5% NPO MLC 0805	
J1	128182-4	CABLE, 26POS AMP-3M BFG MAIN	G 1
	102472-3		
JZ		CONN, 12POS .1CTR ASSY 5GL ROW	<u>E 1</u>
J3	101993-1	JACK, 6P4 COND MODULAR R/A	<u>F 2</u>
01	125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	F 1
R2	A11368-20011	2.0K, 0.10W 1% MF 0805	<u>F 1</u>
R4	A11368-26111	2.61K 0.1W 1% 0B05 T/R	F 2
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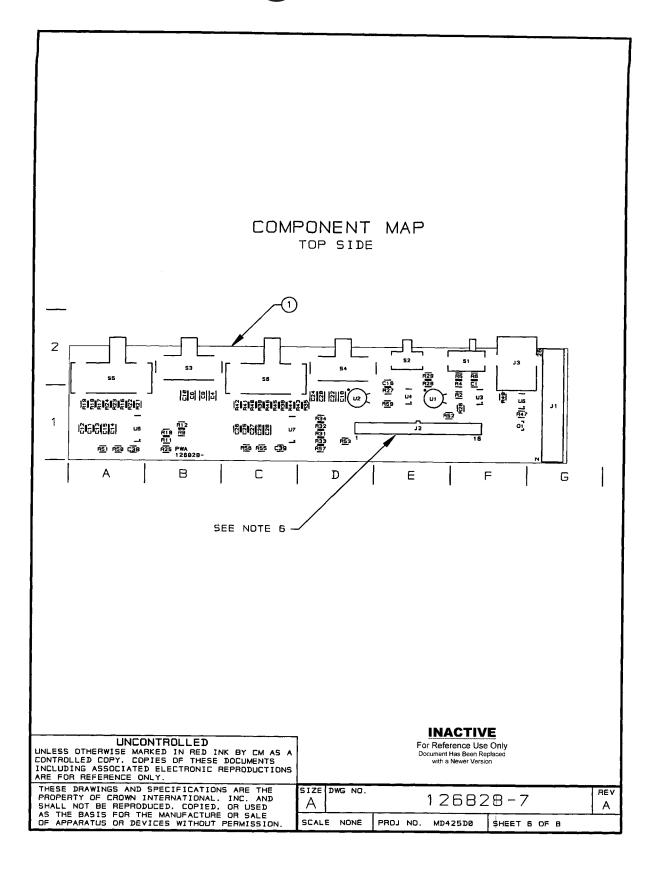


		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R5	A11368-11321	11.3KOHM .1W 1% CHIP 0805	F 2
R6	A11368-88711	8.87KOHM .1W 1% CHIP 0805	F 2
R7		10K 1/10W 1% SMD 0805 T/R	F 2.*
RB (	A11368-10021	10K 1/10W 1% SMD 0805 T/R	F 1*
R9		10K 1/10W 1% SMD 0805 T/R	B 1
R10		10K 1/10W 1% SMD 0805 T/R	81
811		10K 1/10W 1% SMD 0805 T/R	B 1
R12		10K 1/10W 1% SMD 0805 T/R	81
R13		143K OHM .1W 1% 0805 T/R	B 1*
R14		RES 38.3K 1% SMD 1206	A 1*
R15	A. 4994449	RES 28.7K 1% SMD 1206	A 1*
R16		22.6K OHM .1W 1% 0805 T/R	A 1
		56.2K OHM .1W 1% 0805 T/R	A 1
R17			A 1
R1B		15.0K, 0.10W 1% MF 0805	A 1
R19		11.3KOHM .1W 1% CHIP 0805	
R20		8.87KOHM .1W 1% CHIP 0805	A 1*
R21		976K OHM . 1W 1% 0805 T/R	A 1
R22		261K OHM .1W 1% 0805 T/R	A 1
R23		196K OHM .1W 1% 0805 T/R	A 1
R24		158KOHM . 1W 1% 0805 T/R	A 1
R25		10K 1/10W 1% SMD 0805 T/R	B 1
R26		10K 1/10W 1% SMD 0805 T/R	F 1
R27		2.0K, 0.10W 1% MF 0805	E 1
R2B	A11368-26111	2.61K 0.1W 1% 0805 T/R	E 2
R29	A11368-11321	11.3KOHM .1W 1% CHIP 0805	E 2
R30	A11368-88711	8.87KOHM .1W 1% CHIP 0805	E 2*
R31	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 1
R32	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 1
R33	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 1
R34	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 1
R35	A1136B-14331	143K OHM .1W 1% 0805 T/R	D 1
R36	A11368-38322	RES 38.3K 1% SMD 1206	C 1*
R37	A11368-28722	RES 28.7K 1% SMD 1206	C 1*
R38	A11368-22621	22.6K OHM .1W 1% ØBØ5 T/R	C 1
R39	A11368-56221	56.2K OHM .1W 1% 0805 T/R	C 1
R40	A11368-15021	15.0K, 0.10W 1% MF 0805	C 1
R41		11.3KOHM .1W 1% CHIP 0805	C 1
R42	A11368-88711	8.87KOHM .1W 1% CHIP 0805	C 1
R43		976K OHM .1W 1% 0805 T/R	D 1
R44		261K OHM .1W 1% 0805 T/R	<u> </u>
R45		196K OHM .1W 1% 0805 T/R	C 1
R46		158K0HM .1W 1% 0805 T/R	
R47	A11368-10021	10K 1/10W 1% SMD 0805 T/R	F 1
R48	A11368-15011	1.5K 1/10W 1% SMD 0805 T/R	F 1
R48 R49	A11368-10R03	10 DHM 0.25W 1% 1210 T/R	B 1*
		10K 1/10W 1% SMD 0805 T/R	A 1
R50	A11368-10021		A 1
R51		OPEN	
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ESE DRAWIN	RENCE DNLY. NGS AND SPECIFICA CROWN INTERNATIO	TIONS ARE THE SIZE DWG NO. $126828-$	7
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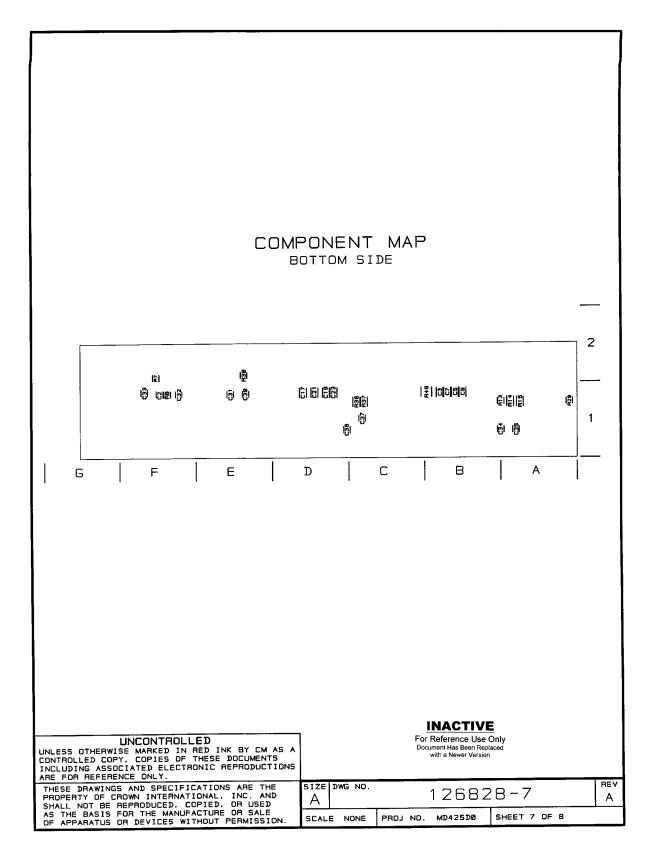


			PARTS LIST					
REF DES	6 C.P.N.	DESCRIPTION					MAP LOC.	
R52	A11368-30101	301 DHM .1W	1% 0805 T/F				E 1	
R53	A11368-30101	301 OHM .1W	1% 0805 T/F				D 1	
R55	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R			C 1	
R56		OPEN					C 1	
R57	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R			D 1	
R59	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R			E 1	
51	127412-1	SWITCH, DP3T	SLIDE R/A	PCB MNT			F 2	
52	C 7325-1	2POLE 2POS PO	C SLIDE SWI	TCH			E 2	
53	127386-1	SWITCH, 4P3T	SLIDE R/A	PCB MNT			B 2	
54	127386-1	SWITCH, 4P3T	SLIDE R/A	PCB MNT			D Z	
S5	127387-1	SWITCH, 4P4T	SLIDE R/A	PCB MNT			A 2	
56	127387-1	SWITCH, 4P4T	SLIDE R/A	PCB MNT			C 2	
U1	102723-2	OPTOCELL ON .	SKOHM OFF >	10M5SEC			E 1	
U2	102723-2	OPTOCELL ON .					D 1	
UB	C 8262~5	MC33078D LOW					F 1	
U4	C 8262-5	MC33078D LOW	1				E 1	
U5	102486-1	OPTO BJT NPN					F 1	
υ <b>6</b>	C 9012-3	OP AMP. QUAD					A 1	
 U7	C 9012-3	OP AMP. QUAD						
1	126827-8	PWB, CE4000 E					<u>                                     </u>	
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HESE DRAWI	NGS AND SPECIFICA		SIZE DWG NO.		000			REV
	CROWN INTERNATIO		A	1	2682	28-7	/	A
5 THE BASI	S FOR THE MANUFAC	TURE OR SALE			MD425D0	eur		L
- APPARATL	IS OR DEVICES WITH	UUI PERMISSION.	SCALE NONE	PRDJ ND.	NU ຈັໄລີມຢ	1 DUFFI	5 OF 8	











					REV	ISION	HISTORY							
E.C.N.	REV				DESCRIP	PTION				DATE		CHK		
00N0962	Α	RELEAS	E FOR PRO	DUCTION						11-16-00		KB3		
UNL	ESS SPE PRI ALL POS THE BE MAP	OTHER CIFIC NTED LEAD ITION PRIN MARKE LOCA	WISE S ATION S SHAL COMPO TED WI D ON T TIONS	PECIFIE DESCRIE BOARD L BE TF NENTS A RING AS HE PRIN DENOTEI	PART NL PART NL RIMMED T S SHOWN SEMBLY ITED WIF D BY AN	PC-A JMBER O Ø. J ON PART RING ASTE	-610_ 12682 093" ( COMPON NUMBE BOARD RISK (	VIRING A CLASS 2 PR LESS. NENT MAP R FOR 1 AND SHA *), INI NTED WIP	SSEMBLI STANDA STANDA HIS ASS LL BE F DICATE C	SEMBLY SEMBLY SEMANE COMPONE	MEI SHAI NT.	ET		
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PROPERI SHALL N AS THE	NOT BE BASIS	CROWN I REPROI FOR TH	NTERNATI NUCED, CO HE MANUFA	ATIONS AR ONAL, INC PIED, OR CTURE OR HOUT PERM	. AN⊅ USED SALE	CONTR INCLL	ROLLED C JDING AS	UNCON WISE MARKE OPY, COPIE BOCIATED E RENCE ONLI	S OF THES	E DOCUMEN	NT5			
DIST	RIBUTI	ON	DWN	<b>WAL</b>	11-16-00			<b>.</b> O1		1718 W. ELKHART				
к			СНК	KB3	11-17-00					PHONE (21 WWW. CROW	9)29	4-806	90	
FILENAME 126828- TOLERAN	12_A_E		CM PE	mmg Tr	11/21/00 1/17/00	TITLE		WA,		00 E	3 F C	5		
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	3 - ±.	010"				A	DWG ND.	126	5828	-12				A
DO NOT 5	CALE D	RAWING				SCALE		PROJ ND.	MD425DØ	SHEET	1 0	)F 8		



	PARTS LIST	<u> </u>	T								
C. P. N.	DESCRIPTION		REFERENCE DESIGNATION								
A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	2	R131, R231								
A11368-10R03	10 OHM 0.25W 1% 1210 T/R	1	R3								
A1136B-10021	10K 1/10W 1% SMD 0805 T/R	9	R1, R2, R4, R104, R105, R108,								
		l	R204, R205, R208								
A11368-11321	11.3KOHM .1W 1% CHIP 0805	4	R102, R115, R202, R215								
A11368-14331	143K OHM . 1W 1% 0805 T/R	2	R109, R209								
A11368-15011	1.5K 1/10W 1% SMD 0805 T/R	1	R5								
A11368-15021	15.0K, 0.10W 1% MF 0805	Z	R114, R214								
A11368-15831	158KOHM .1W 1% 0805 T/R	2	R120, R220								
A11368-19631	196K OHM . 1W 1% 0805 T/R	2	R119, R219								
A11368-20011	2.0K, 0.10W 1% MF 0805	2									
A11368-22621	22.6K OHM .1W 1% 0805 T/R	2	R112, R212								
A11368-24921	24.9K 1/10W 1% SMD 0805 T/R	8	R121, R124, R125, R127, R221,								
			R224, R225, R227								
A11368-26111	2.61K 0.1W 1% 0805 T/R	_2	R101, R201								
A11368-26131	261K OHM . 1W 1% 0805 T/R	_2	R11B, R218								
A11368-28722	RES 28.7K 1% SMD 1205	2	R111, R211								
A11368-30101	301 OHM .1W 1% 0805 T/R	2	R106, R206								
A11368-38322	RES 38.3K 1% SMD 1206	2	R110, R210								
A11368-56221	56.2K OHM .1W 1% 0805 T/R	2	R113, R213								
A11368-88711	8.87KOHM .1W 1% CHIP 0805	4	R103, R116, R203, R216								
A11368-97631	976K OHM . 1W 1% 0805 T/R	2	R117, R217								
A11369-102J2	.001UF 50V 5% NPD MLC 0805 T/R	2									
A11369-330J2	33 PF 50V 5% NPO MLC 0805	3									
A11371-0R01	0 DHM 0.1W CHIP 0805	4	R122, R128, R222, R228								
A11427-103K2	.01 UF 50V 10% X7R MLC 0805	B									
C 7325-1	2POLE 2POS PC SLIDE SWITCH	1	52								
C 8262-5	MC33078D LOW NOISE DUAL OP AMP	2	U101, U201								
C 9012-3	OP AMP, QUAD LO NOISE MC33079D	2									
C 9049-5	100PF 100V CERAMIC CHIP CAP	2	C100,C200								
101993-1	JACK, 6P4 COND MODULAR R/A	1	J3								
102472-3	CONN, 12POS .1CTR ASSY SGL ROW	1	J2								
102486-1	OPTO BJT NPN SOIC-B CTR=100%	1	_U1								
125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	1	Q1								
126827-14	PWB, CE4000 BFG	1	1								
127386-1	SWITCH, 4P3T SLIDE R/A PCB MNT	2	5101,5201								
127387-1	SWITCH, 4P4T SLIDE R/A PCB MNT	2	5100,5200								
127412-1	SWITCH, DP3T SLIDE R/A PCB MNT	1	51								
128113-1	CAP, 0.1UF 15V FILM 1210 SMD	10	C102,C103,C104,C105,C110,								
		- 0	C202, C203, C204, C205, C210								
128182-4	CABLE, 26POS 3M BFG MAIN	4									
		1									
130963-1	CAP, 4.7 AF 20% 16V NP ELEC SMT	2	<u>C114, C214</u>								
130964-1	CAP, 0.082UF 5% 16V FILM 1210	4	C106, C111, C206, C211								
131399-1	CAP, .047UF 16V 5% FILM SMT	4	C108, C113, C208, C213								
131547-1	OPTO. ON< 500 DHM OFF >50MEG10SEC	2	U100A, U200A								
131576-1	CAP, 027UF 16V 5% FILM SMT	8	C107, C112, C116, C117, C207,								
			C212, C216, C217								
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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C1	A11369-330J2	33 PF 50V 5% NPO MLC 0805	F 1*
C2	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	E 1*
СЭ	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	<u> </u>
C4	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	<u> </u>
C5	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	<u>F 1*</u>
C6		.01 UF 50V 10% X7R MLC 0805	<u> </u>
C7		.01 UF 50V 10% X7R MLC 0805	A 1*
C10		.01 UF 50V 10% X7R MLC 0805	C 1*
C11		.01 UF 50V 10% X7R MLC 0805	<u> </u>
		100PF 100V CERAMIC CHIP CAP	F 1*
<u>C100</u>		33 PF 50V 5% NPO MLC 0805	B 1*
C101	128113-1	CAP, 0.1UF 16V FILM 1210 SMD	A 1
C102		CAP, 0.1UF 16V FILM 1210 SMD	A 1
C103	128113-1	CAP, 0.1UF 16V FILM 1210 SMD	A 1
C104	128113-1	CAP, 0.1UF 16V FILM 1210 SMD	C 1
C105	128113-1	CAP, 0.082UF 5% 16V FILM 1210 SMD	C 1
C106	130964-1	CAP, 027UF 16V 5% FILM SMT	B 1
C107	131576-1	CAP, .0270F 16V 5% FILM SMT	B 1
C108	131399-1		A 1*
C109		OPEN	B 1
C110	128113-1	CAP, 0.1UF 16V FILM 1210 SMD CAP, 0.082UF 5% 16V FILM 1210 SMD	B 1
C111	130964-1		B 1
C112	131576-1	CAP, .027UF 16V 5% FILM SMT	B 1
C113	131399-1	CAP, .047UF 16V 5% FILM SMT	D 1
C114	130963-1	CAP. 4.7AF 20% 16V NP ELEC SMT TR	A 1
C115		OPEN	B 1
C116	131576-1	CAP027UF 16V 5% FILM SMT	B 1
C117	131576-1	CAP, .027UF 16V 5% FILM SMT	E 1*
C118	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	
C200	C 9049-5	100PF 100V CERAMIC CHIP CAP	<u>E 1*</u>
C201	A11369-330J2	33 PF 50V 5% NPO MLC 0805	<u>C 1*</u>
C202	128113-1	CAP, 0.1UF 16V FILM 1210 SMD	
C203	128113-1	CAP, 0.1UF 16V FILM 1210 SMD	
C204	128113-1	CAP, 0.1UF 15V FILM 1210 SMD	
C205	128113-1	CAP, 0.1UF 16V FILM 1210 SMD	<u>D 1</u>
C206	130964-1	CAP, 0.082UF 5% 16V FILM 1210 SMD	D 1
C207	131576-1	CAP, .027UF 16V 5% FILM SMT	D 1
C208	131399-1	CAP, .047UF 16V 5% FILM SMT	D 1
C209		0PEN	<u> </u>
C210	128113-1	CAP, 0.1UF 16V FILM 1210 SMD	D 1
C211	130964-1	CAP, 0.082UF 5% 16V FILM 1210 5MD	D 1
C212	131576-1	CAP, .027UF 16V 5% FILM SMT	D 1
C213	131399-1	CAP, .047UF 16V 5% FILM SMT	D 1
C214	130963-1	CAP, 4.7 AF 20% 16V NP ELEC SMT TR	D 1
·····		OPEN	C 1*
C215	121575-1	CAP 027UF 16V 5% FILM SMT	D 1
C216	<u>131576-1</u> 131576-1	CAP027UF 16V 5% FILM SMT	D 1
C217	A11369-102J2		E 1
C218	AII309-10232		
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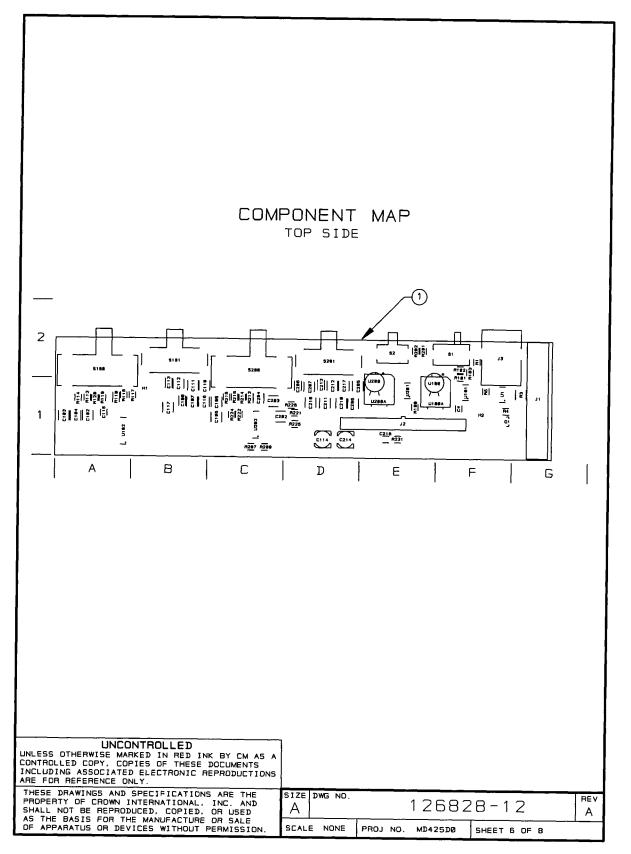


		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
J1	128182-4	CABLE, 26POS 3M BFG MAIN	G 1
J2	102472-3	CONN, 12POS .1CTR ASSY SGL ROW	E 1
13	101993-1	JACK, 5P4 COND MODULAR R/A	<u> </u>
D1	125798-1	TRANSISTOR, MMBT3906LTI PNP SMT	F 1
R1		10K 1/10W 1% SMD 0805 T/R	F 2
R2		10K 1/10W 1% SMD 0805 T/R	F 1*
R3	· · · · ·	10 OHM 0.25W 1% 1210 T/R	
R4		10K 1/10W 1% SMD 0805 T/R	
R5		1.5K 1/10W 1% SMD 0805 T/R	F 1
R100			F 1
		2.0K, 0.10W 1% MF 0805	<u> </u>
R101		2.61K 0.1W 1% 0805 T/R	F 2
R102		11.3KOHM .1W 1% CHIP 0805	F 2
R103		B.87KOHM .1W 1% CHIP 0805	F_2
R104	A11368-10021	10K 1/10W 1% SMD 0805 T/R	<u> </u>
R105		10K 1/10W 1% SMD 0805 T/R	F 1*
R106	A11368-30101	301 OHM .1W 1% 0805 T/R	F 1*
R107		OPEN	A 1*
R108	A11368-10021	10K 1/10W 1% SMD 0805 T/R	B 1*
R109	A11368-14331	143K OHM .1W 1% 0805 T/R	A 1*
R110	A11368-38322	RES 38.3K 1% SMD 1206	A 1
R111	A11368-28722	RES 28.7K 1% SMD 1206	A 1*
R112	A11368-22621	22.6K OHM .1W 1% 0805 T/R	A 1*
R113		56.2K OHM .1W 1% 0805 T/R	A 1
R114		15.0K, 0.10W 1% MF 0805	A 1
R115		11.3KOHM .1W 1% CHIP 0805	A 1*
R116		8.87KOHM .1W 1% CHIP 0805	A 1*
R117	·	976K OHM .1W 1% 0805 T/R	
R11B	·····		B 1
		261K OHM . 1W 1% 0805 T/R	<u>A 1</u>
R119		196K OHM . 1W 1% 0805 T/R	A 1
R120		158KOHM .1W 1% 0805 T/R	<u>A 1</u>
R121		24.9K 1/10W 1% SMD 0805 T/R	A 1*
R122	A11371-0R01	0 OHM 0.1W CHIP 0805	A 1*
R123		OPEN	<u>A 1*</u>
R124		24.9K 1/10W 1% SMD 0805 T/R	<u> </u>
R125	A11368-24921	24.9K 1/10W 1% SMD 0805 T/R	<u>B</u> 1*
R126		OPEN	<u>A</u> 1 *
R127		24.9K 1/10W 1% SMD 0805 T/R	<u>B</u> 1*
R128	A11371-0R01	0 OHM 0.1W CHIP 0805	A 1*
R129		OPEN	A 1*
R130		OPEN	B 1*
R131	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	D 1*
R200	A11368-20011	2.0K, 0.10W 1% MF 0805	E 1*
R201	A11368-26111	2.61K 0.1W 1% 0805 T/R	E 2
R202		11.3KOHM .1W 1% CHIP 0805	E 2
R203		8.87KOHM .1W 1% CHIP 0805	E 1*
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	FOR THE MANUFACT	IED, UH USED / Y	
		DUT PERMISSION, SCALE NONE PROJ NO. MD42500 SHEE	

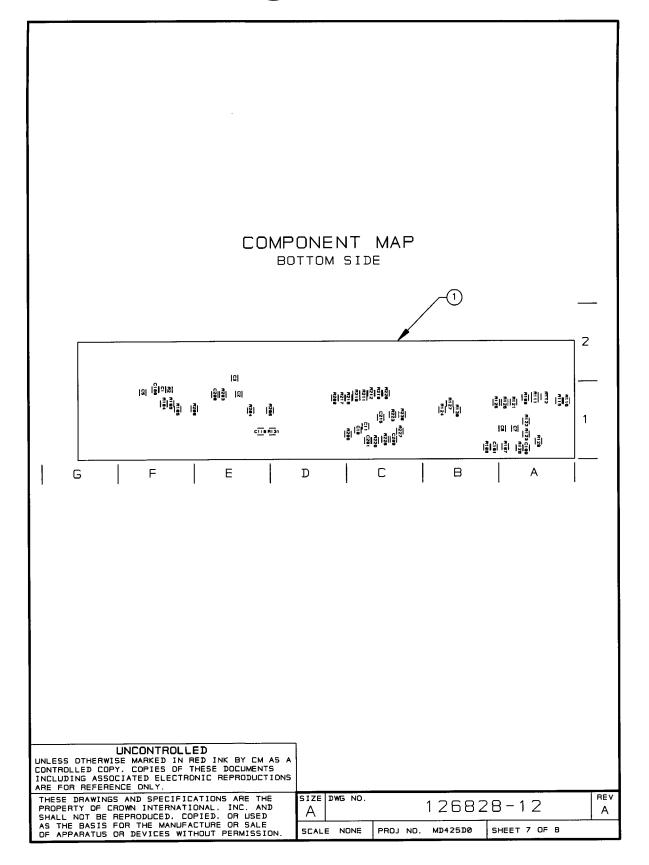


HEF         DES         C.P.N.         DESCRIPTION         MAP LOC           R204         A11368-10821         10K 1/10W 1X SMD 8805 T/R         E         I           R205         A11368-10821         10K 1/10W 1X SMD 8805 T/R         C         I           R206         A11368-10821         10K 1/10W 1X SMD 8805 T/R         C         I           R207         DFEN         C         I         C         I           R208         A11368-10821         10K 1/10W 1X SMD 8805 T/R         C         I           R208         A11368-10821         10K 1/10W 1X SMD 8805 T/R         C         I           R209         A11368-138221         RES 28/2K 1X SMD 1206         C         I           R210         A11368-28022         RES 28/2K 1X SMD 1206         C         I           R211         A11368-28021         15.8 K 0.14M .1W 1X 8085 T/R         C         I           R214         A11368-26131         15.8 K 0.14M .1W 1X 8085 T/R         C         I           R215         A11368-7531         1976 OHM .1W 1X 8085 T/R         C         I           R214         A11368-71931         1956 KOHM .1W 1X 8085 T/R         C         I           R216         A11368-74921         24.9K 1/10W 1X 540805 T/	[	····	PARTS LIST	
11224       A11369-10021       10K       1/10W       1X       SMD 0805       T/R       E       T         1226       A11369-10021       10K       1/10W       1X       SMD 0805       T/R       E       T         1226       A11369-3001       381       UM       1X       X0055       T/R       E       T         1228       A11369-10021       18X       1/10W       1X       X0055       T/R       C       1         1228       A11369-14321       14X       OPEN       C       1       T       C       1         1210       A11369-14321       14X       OPEN       C       1       T       T       C       1         1210       A11369-14321       18X       OPM       1W       X0055       C       1         R213       A11369-15021       155.2X       OHM       1W       X0055       C       1         R214       A11369-15021       15.8X       OHM       1W       X0055       T/R       C       1*         R216       A11369-15031       158 CHM       1W       X0055       T/R       C       1*         R216       A11369-15031       158 CHM       1W </td <td>DEE DEC</td> <td></td> <td></td> <td></td>	DEE DEC			
R285       A11368-18021       10K       1/10W       1X       SAD       C       1         R287       OPEN       C       1       R287       C       1         R280       A11368-18021       10K       1/10W       1X       SMD       885       T/R       C       1         R280       A11368-18021       10K       1/10W       1X       SMD       885       T/R       D       1         R280       A11368-18022       RES       38.3K       1X       SMD       1286       C       1         R210       A11368-28022       RES       28.3K       1X       SMD       1286       C       1         R211       A11368-156221       SE.X       OHM       1W       X       8895       C       1         R214       A11368-15621       SE.X       OHM       1W       1X       8895       C       1         R214       A11368-15621       SE.X       OHM       1W       1X       8895       C       1         R214       A11368-15621       SE.X       OHM       1W       1X       8895       T/R       C       1         R216       A11368-15621       SE.KOHM <td>h</td> <td></td> <td></td> <td></td>	h			
1286       A11369-38101       381 0HM .1 W 1X 0605 T/R       E 1         R287       DPEN       C 1         R288       A11368-14321       14X 0HM .1 W 1X 0805 T/R       C 1         R298       A11368-14321       14X 0HM .1 W 1X 0805 T/R       C 1         R210       A11368-14322 RES 28.X 1X SMD 1286       C 1*         R211       A11368-28722 RES 28.X 1X SMD 1286       C 1*         R212       A11368-15621       25.6 X 0HM .1 W 1X 0805 T/R       C 1         R214       A11368-15621       15.6 X.0 HM .1 W 1X 0805 T/R       C 1         R215       A11368-15621       15.0 K.0 .10W 1X MF 0805       C 1         R216       A11368-15621       15.0 K.0 .10W 1X 0805 T/R       C 1         R217       A11368-15621       15.0 K.0 M.1W 1X 0805 T/R       C 1         R218       A11368-15631       156 K 0HM .1 W 1X 0805 T/R       C 1         R224       A11368-15631       156 K 0HM .1 W 1X 0805 T/R       C 1         R224       A11368-24921       24.9 K 1/10W 1X SMD 0805 T/R       C 1         R224       A11368-24921       24.9 K 1/10W 1X SMD 0805 T/R       D 1         R224       A11368-24921       24.9 K 1/10W 1X SMD 0805 T/R       D 1         R225       A11368-24921       24.9 K 1/1				
R207         OPEN         C 1           R208         A11360-1021         IAX /10W 1X SMD 2005 T/R         C 1           R209         A11360-1021         IAX /10W 1X SMD 2005 T/R         D 1*           R210         A11360-2022 RES 20.3X 1X SMD 1206         C 1*           R211         A11360-2022 RES 20.XX 1X SMD 1206         C 1*           R212         A11360-22621         22.6K DHM .1W 1X 0005 T/R         C 1*           R214         A11360-22621         22.6K DHM .1W 1X 0005 T/R         C 1           R214         A11360-2621         15.8K.0HM .1W 1X 0005 T/R         C 1           R214         A11360-1021         19.87K0HM .1W 1X 0005 T/R         C 1           R215         A11360-1631         196K0HM .1W 1X 0005 T/R         C 1*           R218         A11360-1631         196K0HM .1W 1X 0005 T/R         C 1*           R220         A11360-1631         196K0HM .1W 1X 0005 T/R         D 1*           R221         A11360-1631         196K0HM .1W 1X 0005 T/R         D 1*           R222         A11360-24921         24.9K 1/10W 1X SMD 0005 T/R         D 1*           R223         OPEN         C 1*         R224         A11360-24921         24.9K 1/10W 1X SMD 0005 T/R         D 1           R224         A11360-249				
R288       A11368-18021       10K 1/10W 1X SMD 8885 T/R       C 1         R299       A11368-14331       143K OHM .1W 1X 8885 T/R       D 1*         R210       A11368-14332       143K OHM .1W 1X 8885 T/R       C 1*         R211       A11368-28722       RES 38.5 X IX SMD 1286       C 1*         R212       A11368-28722       RES 28.7K 1X SMD 1286       C 1*         R213       A11368-28722       RES 28.7K 1X SMD 1286       C 1         R214       A11368-56221       25.6 X OHM .1W 1X 0885 T/R       C 1         R215       A11368-15021       15.0 K.0.10W 1X MF 0805       C 1         R216       A11368-15021       15.0 K.0.4.1W 1X 0805 T/R       C 1         R217       A11368-15021       25.K OHM .1W 1X 0805 T/R       C 1*         R218       A11368-19631       196K OHM .1W 1X 0805 T/R       C 1*         R220       A11368-19631       196K OHM .1W 1X 0805 T/R       C 1         R221       A11368-24921       24.9 K 1/10W 1X SMD 0805 T/R       C 1         R223       DPEN       C 1*       R224       A11368-24921       24.9 K 1/10W 1X SMD 0805 T/R       D 1         R224       A11368-24921       24.9 K 1/10W 1X SMD 0805 T/R       C 1*       R223       C 1*         R224		ALIBOR-SULUI		
P269       A11366-14331       143K 0HM .1W 1X 0805 T/R       D 1         R218       A11366-18322       RES 28.3K 1X SMD 1206       C 1*         R211       A11366-28722       RES 28.7K 1X SMD 1206       C 1*         R212       A11366-28722       RES 28.7K 1X SMD 1206       C 1*         R213       A11366-28722       SE.2 KM M.1W 1X 0805 T/R       C 1         R214       A11366-5521       SE. XM M.1W 1X 0805 T/R       C 1         R215       A11366-15021       SK 0HM .1W 1X 0805 T/R       C 1         R216       A11366-897331       SFK 0HM .1W 1X 0805 T/R       C 1         R219       A11366-15031       SK 0HM .1W 1X 0805 T/R       C 1*         R218       A11366-15031       SK 0HM .1W 1X 0805 T/R       C 1*         R228       A11366-15031       SK 0HM .1W 1X 0805 T/R       D 1         R224       A11366-24921       24.9K 1/10W 1X SMD 0805 T/R       D 1         R225       A11366-24921       24.9K 1/10W 1X SMD 0805 T/R       D 1         R226       A11366-24921       24.9K 1/10W 1X SMD 0805 T/R       D 1         R227       A11366-24921       24.9K 1/10W 1X SMD 0805 T/R       C 1*         R228       A11366-24921       24.9K 1/10W 1X SMD 0805 T/R       C 1*				
R218       A11368-38322       RES 38.3K 1% SMD 1286       C 1*         R211       A11368-28722       RES 28.7K 1% SMD 1286       C 1*         R212       A11368-26221       RES 28.7K 1% SMD 1286       C 1*         R213       A11368-56221       R25.6K OHM. 1W 1% 0895 T/R       C 1         R214       A11368-1521       IS.6K OHM. 1W 1% 0895 T/R       C 1         R215       A11368-1521       IS.6K OHM. 1W 1% 0895 T/R       C 1         R216       A11368-1533       IS6K OHM. 1W 1% 0895 T/R       D 1*         R217       A11368-15631       IS6K OHM. 1W 1% 0895 T/R       C 1*         R218       A11368-15631       IS6K OHM. 1W 1% 0895 T/R       C 1*         R220       A11368-15631       IS6K OHM. 1W 1% 0895 T/R       C 1*         R221       A11368-24921       24.9K 1/18W 1% SMD 0805 T/R       C 1*         R223       DPEN       C 1*       R224       A11368-24921       24.9K 1/18W 1% SMD 0805 T/R       C 1         R224       A11368-24921       24.9K 1/18W 1% SMD 0805 T/R       C 1       R225       A11368-24921       24.9K 1/18W 1% SMD 0805 T/R       C 1*         R225       A11368-24921       24.9K 1/18W 1% SMD 0805 T/R       C 1*       R226       C 1*         R226       A11371-				
R211       A11368-28722       RES 28.7K, 1%, SMD 1208       C 1*         R212       A11368-22621       22.6K, OHM. 1W, 1%, 0805, T/R       C 1         R213       A11368-22621       52.6K, OHM. 1W, 1%, 0805, T/R       C 1         R214       A11368-15021       15.8K, 0.10W, 1%, 0805, T/R       C 1         R215       A11368-13021       15.9K, 0.11W, 1%, 0805, T/R       C 1         R216       A11368-97631       976K, OHM. 1W, 1%, 0805, T/R       C 1*         R218       A11368-19631       196K, OHM. 1W, 1%, 0805, T/R       C 1*         R219       A11368-19631       196K, OHM. 1W, 1%, 0805, T/R       C 1*         R220       A11368-19631       196K, OHM. 1W, 1%, 0805, T/R       C 1*         R221       A11368-24921       24.9K, 1/18W, 1%, SMD, 0805, T/R       C 1*         R223       OPEN       C 1       C 1*         R224       A11368-24921       24.9K, 1/18W, 1%, SMD, 0805, T/R       C 1         R225       A11368-24921       24.9K, 1/18W, 1%, SMD, 0805, T/R       C 1         R226       A11368-24921       24.9K, 1/18W, 1%, SMD, 0805, T/R       C 1*         R227       A11368-24921       24.9K, 1/18W, 1%, SMD, 0805, T/R       C 1         R228       A11371-0R01       0 PMM       NW, 1%,				
R212       A11368-22621       22. 6K OHM. 1W 1% 0805 T/R       C 1         R213       A11368-56221       56. 2K OHM. 1W 1% 0805 T/R       C 1         R214       A11368-15621       15. 6K. 0. 10W 1% MF 0805       C 1         R215       A11368-1321       11. 3KOHM. 1W 1% CHIP 0805       C 1         R216       A11368-97631       976K OHM. 1W 1% 0805 T/R       D 1*         R217       A11368-97631       976K OHM. 1W 1% 0805 T/R       C 1*         R218       A11368-19631       156K OHM. 1W 1% 0805 T/R       C 1*         R220       A11368-19631       156K OHM. 1W 1% 0805 T/R       C 1*         R221       A11368-24921       24. 9K 1/18W 1% SMD 0805 T/R       C 1*         R223       OPEN       C 1*       R224       A11368-24921       24. 9K 1/18W 1% SMD 0805 T/R       D 1         R224       A11368-24921       24. 9K 1/18W 1% SMD 0805 T/R       C 1*       R225       DPEN       C 1*         R225       A11368-24921       24. 9K 1/18W 1% SMD 0805 T/R       C 1*       R226       DPEN       C 1*         R226       OPEN       C 1*       R226       DPEN       C 1*       R228       C 1*         R228       M1368-24921       24. 9K 1/18W 1% SMD 0805 T/R       C 1*       C 1*				<u> </u>
R213       A11368-56221       55.2K OHM .1W 1% 0805 T/R       C       1         R214       A11368-15021       15.0K. 0.10W 1% IK 0805       C       1         R215       A11368-15021       15.0K. 0.10W 1% IK CHIP 08055       C       1         R216       A11369-80711       8.97K0HM. 1W 1% 0805 T/R       D       1         R217       A11368-97631       276K OHM .1W 1% 0805 T/R       C       1         R218       A11368-19631       195K OHM .1W 1% 0805 T/R       C       1         R219       A11368-19631       195K OHM .1W 1% 0805 T/R       C       1         R221       A11368-19631       195K OHM .1W 1% 0805 T/R       C       1         R222       A11371-0R01       0 OHM 0.1W CHIP 0805       C       1         R223       DPEN       C       1       R224       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C       1         R224       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       D       1       1         R225       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       D       1         R226       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C       1 *         R226       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R </td <td>R211</td> <td></td> <td></td> <td>C 1*</td>	R211			C 1*
R214       A11368-15021       15.0K. 0.10W 1% MF 0805       C 1         R215       A11368-11321       11.3KOHM. 1W 1% CHIP 0805       C 1         R216       A11368-97631       976K OHM. 1W 1% CHIP 0805       C 1         R217       A11368-97631       976K OHM. 1W 1% 0805 T/R       D 1*         R218       A11368-1531       156K OHM. 1W 1% 0805 T/R       C 1*         R219       A11368-1531       156K OHM. 1W 1% 0805 T/R       C 1*         R220       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1*         R221       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1         R222       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1         R223       DPEN       C 1*       R225       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       D 1         R224       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       D 1       R226       DPEN       D 1         R225       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       D 1       R227       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1*         R226       DPEN       C 1*       R227       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1*         R227       A11368-10R01       0 HM 0.1W CHIP	R212	A11368-22621	22.6K OHM .1W 1% 0805 T/R	C 1*
R215       A11368-11321       11.3KOHM. 1W 1X CHIP 0805       C 1         R216       A11368-0711       B.07KOHM. 1W 1X 0005 T/R       D 1*         R217       A11368-05131       25KOHM. 1W 1X 0005 T/R       C 1*         R218       A11368-19531       195K OHM. 1W 1X 0005 T/R       C 1*         R220       A11368-19531       195K OHM. 1W 1X 0005 T/R       C 1*         R221       A11368-19531       195K OHM. 1W 1X 0005 T/R       C 1*         R221       A11368-24921       24.9K 1/10W 1X 0005 T/R       C 1         R222       A11370-0R01       0 OHM 0.1W CHIP 0005       C 1         R223       OPEN       C 1*       R224       A11368-24921       24.9K 1/10W 1X SMD 0005 T/R       C 1         R224       A11368-24921       24.9K 1/10W 1X SMD 0005 T/R       C 1       R225       C 1         R225       A11368-24921       24.9K 1/10W 1X SMD 0005 T/R       C 1       R226         DPEN       D1       R227       A11368-24921       24.9K 1/10W 1X SMD 0005 T/R       C 1*         R226       A11371-0R01       0 OHM 0.1W CHIP 0005       C 1*       R228       DPEN       C 1*         R228       A11371-0R01       0 OHM 0.1W CHIP 0005       C 1*       R229       DPEN       C 1*	R213	A11368-56221	56.2K OHM .1W 1% 0805 T/R	C 1
R216       A11368-96711       B. 07KOHM. 1W 1% CHIP 0005       C 1         R217       A11368-97631       976K OHM. 1W 1% 0005 T/R       D 1*         R218       A11368-15131       251K OHM. 1W 1% 0005 T/R       C 1*         R219       A11368-15031       156K OHM. 1W 1% 0005 T/R       C 1*         R220       A11368-15031       156K OHM. 1W 1% 0005 T/R       C 1*         R221       A11368-24921       24.9K 1/10W 1% SMD 0005 T/R       D 1         R223       A11368-24921       24.9K 1/10W 1% SMD 0005 T/R       C 1*         R224       A11368-24921       24.9K 1/10W 1% SMD 0005 T/R       C 1         R225       A11368-24921       24.9K 1/10W 1% SMD 0005 T/R       D 1         R226       DPEN       C 1*       D1         R227       A11368-24921       24.9K 1/10W 1% SMD 0005 T/R       D 1         R226       DPEN       C 1*       R226       DPEN       C 1*         R227       A11368-10R01       10.0 DHM 0.10W 1% 0005 T/R       C 1*         R228       A11371-0R01       0 DHM 0.10W 1% 0005 T/R       C 1*         R228       A11371-0R01       0 DHM 0.10W 1% 0005 T/R       C 1*         R230       DPEN       C 1*       C 1*         R231 <td< td=""><td>R214</td><td>A11368-15021</td><td>15.0K, 0.10W 1% MF 0805</td><td>C 1</td></td<>	R214	A11368-15021	15.0K, 0.10W 1% MF 0805	C 1
R217       A11368-97631       976K       DHM       1W       1X       0805       T/R       D         R218       A11368-26131       261K       OHM       1W       1X       0805       T/R       C       1x         R219       A11368-26931       156KOHM       1W       1X       0805       T/R       C       1x         R228       A11368-24921       24.9K       1/10W       1X       0805       T/R       C       1x         R221       A11368-24921       24.9K       1/10W       1X       SMD 0805       T/R       D       1         R222       A11368-24921       24.9K       1/10W       1X       SMD 0805       T/R       D       1         R224       A11368-24921       24.9K       1/10W       1X       SMD 0805       T/R       D       1         R225       A11368-24921       24.9K       1/10W       1X       SMD 0805       T/R       D       1         R226       A11368-24921       24.9K       1/10W       1X       SMD 0805       T/R       D       1         R228       A11371-0R01       0.0HM 0.1W       1X       SMD 0805       T/R       C       1*	R215	A11368-11321	11.3KOHM .1W 1% CHIP 0805	C 1
R218       A11368-26131       261K       DHM       1.W       1.W       0.805       T/R       C       1*         R219       A11366-15631       195K       OHM       1.W       1.X       0.805       T/R       C       1*         R220       A11366-15631       156K       OHM       1.X       0.805       T/R       D       1         R221       A11368-24921       24.9K       1/10W       1.X       SMD 0805       T/R       D       1         R222       A11371-0R01       0       OPEN       C       1	R216	A11368-88711	8.87KOHM .1W 1% CHIP 0805	C 1
R218       A11368-25131       251K       OHM       1.W       1.X       0805       T/R       C       1*         R219       A11365-15631       156K       OHM       1.W       1.X       0805       T/R       C       1*         R220       A11365-15631       156K       OHM       1.X       0805       T/R       D       1         R221       A11368-24921       24.9K       1/10W       1.X       SMD 0805       T/R       D       1         R222       A11371-0R01       0       OPEN       C       1 <td>B217</td> <td></td> <td></td> <td></td>	B217			
R219       A11368-19631       196K OHM .1W 1X 0805 T/R       C 1*         R220       A11368-15831       158KOHM .1W 1X 0805 T/R       D 1         R221       A11368-15831       158KOHM .1W 1X SMD 0805 T/R       D 1         R222       A11371-0R01       0 OHM 0.1W CHIP 0805       C 1*         R223       OPEN       C 1*         R224       A11368-24921       24.9K 1/10W 1X SMD 0805 T/R       C 1         R224       A11368-24921       24.9K 1/10W 1X SMD 0805 T/R       D 1         R225       A11368-24921       24.9K 1/10W 1X SMD 0805 T/R       D 1         R226       OPEN       D1       D1         R227       A11368-24921       24.9K 1/10W 1X SMD 0805 T/R       C 1*         R228       A11371-0R01       0 OHM 0.1W 1X 0805 T/R       C 1*         R229       OPEN       C 1*       R230       DPEN         R230       DPEN       C 1*       R230       DPEN       C 1*         R231       A11368-10R01       10.0       OHM 0.18W 1X 0805 T/R       E 1       1         S10       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       A 2       2         S100       127385-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2       2				
R220       A1136B-15B31       158KOHM       1.W       1% 0805       T/R       C       1 *         R221       A1136B-24921       24.9K       1/10W       1% SMD 0805       C       1         R222       A11371-0R01       0       0 MM 0.1W       CHP 0805       C       1         R223       OPEN       C       1*       C       1*         R224       A11358-24921       24.9K       1/10W       1% SMD 0805       T/R       C       1         R225       A11368-24921       24.9K       1/10W       1% SMD 0805       T/R       C       1         R226       OPEN       D1       R226       C       C       D       1         R227       A11358-24921       24.9K       1/10W       1% SMD 0805       T/R       C       1         R228       A11371-0801       0       OHM 0.1W       CHPN       C       1       R228       C       1       C       1       C       1         R229       OPEN       C       C       1       R228       C       1       C       1       K       R230       C       1       R230       C       1       R230       C       1				
R221       A11368-24921       24.9K 1/18W 1% SMD 8805 T/R       D 1         R222       A11371-0R81       0 OPEN       C 1*         R223       OPEN       C 1         R224       A11368-24921       24.9K 1/18W 1% SMD 8805 T/R       C 1         R224       A11368-24921       24.9K 1/18W 1% SMD 8805 T/R       D 1         R225       A11368-24921       24.9K 1/18W 1% SMD 8805 T/R       D 1         R226       DPEN       D1       D 1         R227       A11368-24921       24.9K 1/18W 1% SMD 8805 T/R       C 1*         R227       A11368-24921       24.9K 1/18W 1% SMD 8805 T/R       C 1*         R227       A11371-8R01       0 OHM 0.1W CHIP 8805       C 1*         R229       OPEN       C 1*       R230       C 1*         R230       OPEN       C 1*       R231       A11368-10R01       0.0 OHM 0.1W 1% 0805 T/R       E 1         S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F 2       2         S180       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       A 2         S180       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       D 2         TP2       TESTP				
R222       A11371-0R01       0 DHM 0.1W CHIP 0805       C 1         R223       OPEN       C 1         R224       A11360-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1         R225       A11360-24921       24.9K 1/10W 1% SMD 0805 T/R       D 1         R226       OPEN       D 1         R227       A11360-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1*         R228       A11371-0R01       0 OHM 0.1W CHIP 0805       C 1*         R229       OPEN       C 1*         R229       OPEN       C 1*         R231       A11358-10701       10.0 OHM 0.1W CHIP 0805 T/R       E 1         S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S101       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       A 2         S101       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S200       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4				
R223       OPEN       C 1*         R224       A11358-24921       24.9K       1/10W 1% SMD 0805 T/R       C 1         R225       A11368-24921       24.9K       1/10W 1% SMD 0805 T/R       D 1         R225       A11368-24921       24.9K       1/10W 1% SMD 0805 T/R       D 1         R226       OPEN       D 1         R227       A11368-24921       24.9K       1/10W 1% SMD 0805 T/R       C 1*         R228       A11371-0R01       0 OHM 0.1W CHIP 0805       C 1*         R229       OPEN       C 1*         R230       OPEN       C 1*         R231       A11368-10R01       10.0 OHM 0.10W 1% 0805 T/R       E 1         S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S100       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       A 2         S101       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127385-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127385-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2				
R224       A11358-24921       24.9K       1/10W       1% SMD       0805       T/R       C       1         R225       A11358-24921       24.9K       1/10W       1% SMD       0805       T/R       D       1         R226       DPEN       D1       R       R       D1       R       R       D1         R227       A11358-24921       24.9K       1/10W       1% SMD       0805       T/R       C       1         R228       A11371-0R01       0       OHM 0.1W       CHIP 0805       C       1         R229       OPEN       C       1       R       R       C       1         R230       OPEN       C       1       R       R       E       1         S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F       2       S       10       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       A       2         S101       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D       2       2       2       2       2       12       2       12       12       12       12       12       12       12       12       12       12       12       12       12		ATT3/T-URUT		
R225       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       D 1         R226       DPEN       D1         R227       A11369-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1*         R228       A11371-0R01       0 OHM 0.1W CHIP 0805       C 1*         R229       OPEN       C 1*         R230       DPEN       C 1*         R231       A11368-10R01       10.0 OHM 0.10W 1% 0805 T/R       E 1         S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S100       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       A 2         S200       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       C 2         S201       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       C 2         S201       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       C 2         S201       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       C 2         S201       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       E 1         U1       10				
R226       DPEN       D1         R227       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1*         R228       A11371-0R01       0 OHM 0.1W CHIP 0805       C 1*         R229       OPEN       C 1*         R230       OPEN       C 1*         R231       A11368-10R01       10.0 DHM 0.10W 1% 0805 T/R       E 1         S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F 2         S100       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       A 2         S101       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       B 2         S200       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       B 2         S201       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2				C 1
R227       A11368-24921       24.9K 1/10W 1% SMD 0805 T/R       C 1*         R228       A11371-0R01       0 OHM 0.1W CHIP 0805       C 1*         R229       OPEN       C 1*         R230       DPEN       C 1*         R231       A11369-10R01       10.0HM 0.1W CHIP 0805       C 1*         R231       A11369-10R01       10.0HM 0.1W CHIP 0805       C 1*         R231       A11369-10R01       10.0HM 0.10W 1% 0805       T/R       E 1         S1       127412-1       SWITCH.DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S101       127387-1       SWITCH.4P4T SLIDE R/A PCB MNT       A 2         S200       127387-1       SWITCH.4P4T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH.4P3T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH.4P3T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       E 1         TP3       TESTPOINT       TESTPOINT       F 2         TP5       TESTPOINT       TESTPOINT       F 1         U100       OPEN       E 1       E 1         U120       C 9012-3 <td< td=""><td>R225</td><td>A11368-24921</td><td>24.9K 1/10W 1% SMD 0805 T/R</td><td>D 1</td></td<>	R225	A11368-24921	24.9K 1/10W 1% SMD 0805 T/R	D 1
R228       A11371-0R01       0 OHM 0.1W CHIP 0805       C 1*         R229       OPEN       C 1*         R230       DPEN       C 1*         R231       A11369-10R01       0.0 OHM 0.10W 1% 0805 T/R       E 1         S1       127412-1       SWITCH, DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S100       127387-1       SWITCH, 4P3T SLIDE R/A PCB MNT       A 2         S101       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       B 2         S200       127387-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       F 1         U1273       TESTPOINT       TESTPOINT       F 1         U10       0 PCN       C 1       F 1         U100       OPEN       E 1       1         U100       OPEN       E 1       <	R226	<u></u>	OPEN	D1
R229       DPEN       C 1*         R230       DPEN       C 1*         R231       A11358-10R01       10.0       DHM 0.10W 1% 0005 T/R       E 1         S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S100       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       A 2         S101       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       B 2         S200       127387-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         TF2       TESTPOINT       TESTPOINT       E 1       D 2         TP4       TESTPOINT       TESTPOINT       F 1         U100       DPEN       E 1       D 100 DPEN	R227	A11368-24921	24.9K 1/10W 1% SMD 0805 T/R	C 1*
R230       DPEN       C 1*         R231       A11368-10R01       10.0 OHM 0.10W 1X 0805 T/R       E 1         S1       127412-1       SWITCH, DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S100       127387-1       SWITCH, 4P4T SLIDE R/A PCB MNT       A 2         S101       127386-1       SWITCH, 4P4T SLIDE R/A PCB MNT       B 2         S200       127387-1       SWITCH, 4P4T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P4T SLIDE R/A PCB MNT       D 2         S201       127387-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P4T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P4T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       B 1         TP3       TESTPOINT       TESTPOINT       B 1         TP4       TESTPOINT       TESTPOINT       F 2         TP5       TESTPOINT       TESTPOINT       F 1         U100       DPEN       E 1       U100       DPEN         U101       C 8262-5       MC3307BD LOW NOISE DUAL OP AMP       F 1	R228	A11371-0R01	0 OHM 0.1W CHIP 0805	C 1*
R231       A11368-10801       10.0       DHM 0.10W 1X 0805 T/R       E         S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F       2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E       2         S100       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       A       2         S101       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       B       2         S200       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       B       2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       C       2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D       2         TP2       TESTPOINT       TESTPOINT       B       1       10         TP2       TESTPOINT       TESTPOINT       B       1         TP4       TESTPOINT       TESTPOINT       F       2         U1       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F       1         U102       C 9012-3       OP AMP, QUAD LO NOISE DUAL OP AMP       F       1         U200       OPEN       E       1       1200       OPEN       E       1         U201       C 8262-5       M	R229		OPEN	C 1*
S1       127412-1       SWITCH, DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S100       127387-1       SWITCH, 4P4T SLIDE R/A PCB MNT       A 2         S101       127387-1       SWITCH, 4P4T SLIDE R/A PCB MNT       B 2         S200       127387-1       SWITCH, 4P4T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         S201       TESTPOINT       TESTPOINT       B 1         TP3       TESTPOINT       TESTPOINT       E 1         U10       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F 1         U101       C 8262-5       MC3307BD LOW NOISE DUAL OP AMP       F 1         U102       C 9012-3       OP AMP, OLAD LO NOISE MC33079D       A 1         U202 <td< td=""><td>R230</td><td></td><td>OPEN</td><td>C 1*</td></td<>	R230		OPEN	C 1*
S1       127412-1       SWITCH. DP3T SLIDE R/A PCB MNT       F 2         S2       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         S100       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       A 2         S101       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       B 2         S200       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       C 2         S201       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         S201       TESTPOINT       TESTPOINT       B 1         TP3       TESTPOINT       TESTPOINT       E 1         U1       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F 1         U100       OPEN       E 1       1       1020       OPEN       E 1         U102       C 9012-3       OP AMP, OUAD LO NOISE DUAL OP AMP       E 1       1	R231	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	E 1
52       C 7325-1       2POLE 2POS PC SLIDE SWITCH       E 2         5100       127387-1       SWITCH, 4P4T SLIDE R/A PCB MNT       A 2         5101       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       B 2         5200       127387-1       SWITCH, 4P3T SLIDE R/A PCB MNT       C 2         5201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         5201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         5201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         5201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         5201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         5201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         5201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         5201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         7P2       TESTPOINT       TESTPOINT       F 1       D 2         101       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F 1         1100       OPEN       E 1       D100       E 1         1020       OPAMP, QUAD LO NOISE DUAL OP AMP       E 1         10201				
S100       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       A 2         S101       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       B 2         S200       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH. 4P4T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       B 1         TP3       TESTPOINT       TESTPOINT       TESTPOINT         TP4       TESTPOINT       TESTPOINT       F 2         TP5       TESTPOINT       TESTPOINT       F 1         U1       102486-1       OPEN       E 1         U10       D2486-1       OPEN       E 1         U10       D2486-1       OPEN       E 1         U10       D2486-1       OPEN       E 1         U100       DPEN       E 1       1         U201       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       F 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U204       D7D, ON<500 OHM OFF >50MEG10SEC       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D				
S101       127386-1       SWITCH. 4P3T SLIDE R/A PCB MNT       B 2         S200       127387-1       SWITCH. 4P4T SLIDE R/A PCB MNT       C 2         S201       127385-1       SWITCH. 4P3T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       B 1         TP3       TESTPOINT       TESTPOINT       TESTPOINT         TP4       TESTPOINT       TESTPOINT       F2         TP5       TESTPOINT       TESTPOINT       F1         U1       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F1         U100       OPEN       E1       L102       C 9012-3       OP AMP, QUAD LO NOISE DUAL OP AMP       F1         U200       OPEN       E1       L200       DPEN       E1         U201       C 8252-5       MC33078D LOW NOISE DUAL OP AMP       E1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C1         U204       DPEN       E1       L202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C1       L1       L26827-14       OPTO, ON<500 OHM OFF >50MEG10SEC <td></td> <td></td> <td></td> <td>+</td>				+
S200       127387-1       SWITCH, 4P4T SLIDE R/A PCB MNT       C 2         S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       B 1         TP3       TESTPOINT       TESTPOINT       B 1         TP4       TESTPOINT       TESTPOINT       F 2         TP5       TESTPOINT       TESTPOINT       C 1         U100       OPEN       E 1         U101       C 8262-5       MC3307BD LOW NDISE DUAL OP AMP       F 1         U200       OPEN       E 1         U201       C 8262-5       MC3307BD LOW NDISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U1020       OPEN       E 1       1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U204       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OP				
S201       127386-1       SWITCH, 4P3T SLIDE R/A PCB MNT       D 2         TP2       TESTPOINT       TESTPOINT       TESTPOINT       B 1         TP3       TESTPOINT       TESTPOINT       TESTPOINT       B 1         TP4       TESTPOINT       TESTPOINT       TESTPOINT       F 2         TP5       TESTPOINT       TESTPOINT       TESTPOINT       C 1         U10       102486-1       OPTO BJT NPN SOIC-8 CTR-100%       F 1         U100       OPEN       E 1         U101       C 8262-5       MC3307BD LOW NOISE DUAL OP AMP       F 1         U200       OP AMP, QUAD LO NOISE MC33079D       A 1         U201       C 8262-5       MC3307BD LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U201       C 8262-5       MC307BD LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U100A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         UNCONTROLLED				
TP2       TESTPOINT       TESTPOINT       TESTPOINT       B 1         TP3       TESTPOINT       TESTPOINT       TESTPOINT       B 1         TP4       TESTPOINT       TESTPOINT       F 2         TP5       TESTPOINT       TESTPOINT       TESTPOINT         U1       102486-1       OPTO BJT NPN SDIC-B CTR-100%       F 1         U100       OPEN       E 1         U101       C 8262-5       MC3307BD LOW NOISE DUAL OP AMP       F 1         U102       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A 1         U200       OPEN       E 1         U201       C 8262-5       MC3307BD LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U204       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         UNCONTROLLED       ESS OTHERWISE MARKED IN RED INK BY CM AS A       A         UNCONTROLLED COPY, COPIES OF THESE DOCUMENTS       CUDING ASSOCIATED ELECTRONIC REPRODUC				
TP3       TESTPDINT       TESTPDINT       B 1         TP4       TESTPDINT       TESTPDINT       F 2         TP5       TESTPDINT       TESTPDINT       C 1         U1       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F 1         U100       OPEN       E 1         U101       C 8262-5       MC33078D LOW NDISE DUAL OP AMP       F 1         U102       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A 1         U200       OPEN       E 1         U201       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, OUAD LO NOISE MC33079D       C 1         U203       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         1       126827-14       PWB, CE4000 BFG       Image: State of the stat				
TP4       TESTPDINT       TESTPOINT       F 2         TP5       TESTPOINT       TESTPOINT       C 1         U1       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F 1         U100       OPEN       E 1         U101       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       F 1         U102       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A 1         U200       OPEN       E 1         U201       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U100A       131547-1       OPTO, ON<500 OHM OFF>50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF>50MEG10SEC       E 1         1       126B27-14       PWB, CE4000 BFG       Image: Copy. Copies OF THESE DOCUMENTS         LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS       Image: Copy. Copies OF THESE DOCU				
TP5       TESTPOINT       TESTPOINT       C 1         U1       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F 1         U100       OPEN       E 1         U101       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       F 1         U102       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A 1         U200       OPEN       E 1         U201       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U204       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E 1         1       126B27-14       PWB, CE4000 BFG       Image: State and				
U1       102486-1       OPTO BJT NPN SDIC-8 CTR-100%       F       1         U100       OPEN       E       1         U101       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       F       1         U102       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A       1         U200       OPEN       E       1         U201       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       E       1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C       1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C       1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C       1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C       1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C       1         U100A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E       1         U200A       131547-1       OPTO, ON<500 OHM OFF >50MEG10SEC       E       1         1       126827-14       PWB, CE4000 BFG       I       I         ESS OTHERWISE MARKED IN RED INK BY CM AS A       A       I       I				F 2
U100         DPEN         E 1           U101         C 8262-5         MC3307BD LOW NDISE DUAL OP AMP         F 1           U102         C 9012-3         OP AMP, QUAD LO NOISE DUAL OP AMP         E 1           U200         OPEN         E 1           U201         C 8262-5         MC33078D LOW NOISE DUAL OP AMP         E 1           U202         C 9012-3         OP AMP, QUAD LO NOISE DUAL OP AMP         E 1           U202         C 9012-3         OP AMP, QUAD LO NOISE MC33079D         C 1           U100A         131547-1         OPTO, ON<500 OHM OFF>50MEG10SEC         E 1           U200A         131547-1         OPTO, ON<500 OHM OFF>50MEG10SEC         E 1           1         126B27-14         PWB, CE4000 BFG         -           ESS OTHERWISE MARKED IN RED INK BY CM AS A ITROLLED COPY. COPIES OF THESE DOCUMENTS         -           LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS         -         -	TP5			C 1
U101       C 8262-5       MC3307BD LOW NOISE DUAL OP AMP       F 1         U102       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A 1         U200       OPEN       E 1         U201       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U100A       131547-1       OPTD, ON<500 OHM OFF>50MEG10SEC       E 1         U200A       131547-1       OPTD, ON<500 OHM OFF>50MEG10SEC       E 1         1       126827-14       PWB, CE4000 BFG	U1	102486-1	OPTO BJT NPN SOIC-8 CTR=100%	F 1
U102       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       A 1         U200       OPEN       E 1         U201       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U100A       131547-1       OPTO.ON<500 OHM OFF>50MEG10SEC       E 1         U200A       131547-1       OPTO.ON<500 OHM OFF>50MEG10SEC       E 1         1       126B27-14       PWB, CE4000 BFG	U100		OPEN	<u>E 1</u>
U200         OPEN         E         1           U201         C         8262-5         MC33078D         LOW NOISE         DUAL OP AMP         E         1           U202         C         9012-3         OP AMP, OUAD LO NOISE         MC33079D         C         1           U100A         131547-1         OPTO, ON<500	U101	C 8262-5	MC3307BD LOW NOISE DUAL OP AMP	F 1
U201       C 8262-5       MC33078D LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U100A       131547-1       OPTO, ON<500 OHM OFF>50MEG10SEC       E 1         U204       131547-1       OPTO, ON<500 OHM OFF>50MEG10SEC       E 1         1       126827-14       PWB, CE4000 BFG       Image: Cease of the state of the sta	U102	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	A 1
U201       C 8252-5       MC33078D LOW NOISE DUAL OP AMP       E 1         U202       C 9012-3       OP AMP, QUAD LO NOISE MC33079D       C 1         U100A       131547-1       OPTO, ON<500 OHM OFF>50MEG10SEC       E 1         U200A       131547-1       OPTO, ON<500 OHM OFF>50MEG10SEC       E 1         1       126827-14       PWB, CE4000 BFG       Image: Cease of the second	U200		OPEN	E 1
U202         C 9012-3         OP AMP, QUAD LO NOISE MC33079D         C 1           U100A         131547-1         OPTO, ON<500 OHM OFF>50MEG10SEC         E 1           U200A         131547-1         OPTO, ON<500 OHM OFF>50MEG10SEC         E 1           1         126B27-14         PWB, CE4000 BFG         Image: Cease of the ceas	U201	C 8262-5	MC33078D LOW NOISE DUAL OP AMP	
U100A         131547-1         OPTD. ON< 500         OHM OFF >50MEG10SEC         E         1           U200A         131547-1         OPTD. ON< 500				
U200A         131547-1         OPTD, ON<500         OHM OFF>50MEG105EC         E         I           1         126B27-14         PWB, CE4000         BFG         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
1     125B27-14     PWB, CE4000 BFG       UNCONTROLLED       ESS OTHERWISE MARKED IN RED INK BY CM AS A       ITROLLED COPY. COPIES OF THESE DOCUMENTS       LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS				-f
UNCONTROLLED ESS OTHERWISE MARKED IN RED INK BY CM AS A ITROLLED COPY. COPIES OF THESE DOCUMENTS LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS				· · · · · · · · · · · · · · · · · · ·
ESS OTHERWISE MARKED IN RED INK BY CM AS A ITROLLED COPY. COPIES OF THESE DOCUMENTS CLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS	<u></u>	. 2002/ 17		
ESS OTHERWISE MARKED IN RED INK BY CM AS A NTROLLED COPY, COPIES OF THESE DOCUMENTS CLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS				- <del> </del>
FOR REFERENCE ONLY.	NTROLLED CO CLUDING ASS	WISE MARKED IN RE DPY, COPIES OF TH SOCIATED ELECTRON	D INK BY CM AS A RESE DOCUMENTS	·
ESE DRAWINGS AND SPECIFICATIONS ARE THE OPERTY OF CROWN INTERNATIONAL, INC. AND A 126828-12	OPERTY OF	CROWN INTERNATIO	NAL, INC. AND A 126828-	12











<b>[</b>	E.C.N.		BEV	<u> </u>	DESCRIPTI				• • •	DATE	BY		PPR		
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Γ	THESE DRAWINGS	AND SPE	CIFIC ANATI	ATIONS ARE THE ONAL, INC. AND PIED. OR USED CTURE OR SALE HOUT PERMISSION.	PROJ #		MD390D0	PE 2	11/2/99	DWG. NO.			1 OF	5	REV
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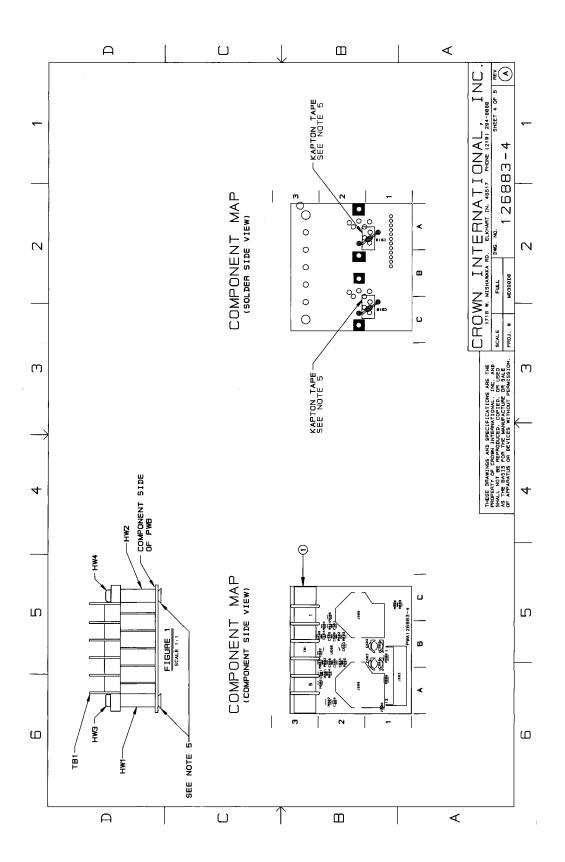
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REF DE	SC.P.N.	DESCRIPTION	MAP LOC.
1	127004-1	PWB, CE INPUT	
C500	A11369-120K2	12PF 50V 10% NPO 0805 T/R	B 2
C501	A11369-120K2	12PF 50V 10% NPO 0805 T/R	82
C502	A11369-120K2	12PF 50V 10% NPO 0805 T/R	В 2
C503	102467-1	22UF 25V 20% RADIAL T/R	B 1
C504		220PF 200V 10% NPO 0805	82
<u>C505</u>		0.1UF 50V 1% CHIP 0805	В 2
C506	A11427-104K2	0.1UF 50V 1% CHIP 0805	B 2
C509		OPEN	
C510	C 6806-1	0.01 MF 100V AXIAL CER T/R	C 1
C600		12PF 50V 10% NPO 0805 T/R	B 2
C601		12PF 50V 10% NPO 0805 T/R	A 2
<u>C602</u>		12PF 50V 10% NPO 0805 T/R	B 2
C603	102467-1	22UF 25V 20% RADIAL T/R	B 1
<u>C604</u>		220PF 200V 10% NPO 0805	B 2
C605		0.1UF 50V 1% CHIP 0805	A 2
C608	A11371-1501	15 OHM 0.10W 5% CHIP	A 1
C609		OPEN	
<u>C610</u>	C 6806-1	0.01 MF 100V AXIAL CER T/R	A 1
HW1	102579-1	STAND, BROACHED 6-32 X .75	A 3
HW2	102579-1	STAND, BROACHED 6-32 X .75	С 3
<u>НW3</u> НW4	103435-70608	SCREW, 6-32X.5 TORX PNHD SEM	A 3
_		SCREW, 6-32X.5 TORX PNHD SEM	СЗ
1500	126929-1	CONN., 1/4" XLR, PCB VERT.	82
J502 J600	102471-2	HDR, 12POS. 2.5MM RT ANG KEYED	A 1
R500	126929-1	CONN., 1/4" XLR, PCB VERT.	A 2
R501	A11368-10021		C 2
R502	A11368-10021	10. KOHM .1W 1% CHIP 0805	<u> </u>
R503	A11368-10021	10. KOHM .1W 1% CHIP 0805	<u> </u>
R504	A11368-10021	10. KOHM . 1W 1% CHIP 0805	82
R506	A11368-20011	2.0 KOHM .1W 1% CHIP 0805	B 2
R508	A11300 20011	2.0 KOHM .1W 1% CHIP 0805	B 2
R600	A11368-10021	10. KOHM .1W 1% CHIP 0805	
R601	A11368-10021	10. KOHM .1W 1% CHIP 0805	A 2
R602	A11368-10021	10. KOHM .1W 1% CHIP 0805	A 2
R603	A11368-10021	10. KOHM . 1W 1% CHIP 0805	B 2
R604	A11368-20011	2.0 KOHM .1W 1% CHIP 0805	<u> </u>
R605	A11371-1501	15 OHM 0.10W 5% CHIP	<u> </u>
R606		2.0 KOHM .1W 1% CHIP 0805	
R607	A11371-8205	82 OHM 1W 5% SMD 2512	A 2
R608		OPEN	A 2
R609	A11371-1501	15 OHM 0.10W 5% CHIP	C 1
TB1	102475-1	BLOCK, SPOS., TERMINAL	L   A 3
J500	C 9012-3	OP AMP, QUAD MC33079D	<u>A_3</u> B_2
		CROWN INTERNATI	· · · <b>—</b> · · <b>—</b>
DRAWINGS	AND SPECIFICATIONS ARE OWN INTERNATIONAL, INC. EPRODUCED. COPIED. OR OR THE MANUFACTURE OR S R DEVICES WITHOUT PERMI	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 48517 AND DRAWN DK 11/01/99 DWG. NO.	PHONE (219) 294-

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E.C.N.	REV				DESCRIF	PTION		DATE	DWN CHK	
00N0523	A	RELEAS	E FOR PRO	DUCTION				05-30-00	JG IIM	CB
THE	SPEC )TES: 1. Pf 2. AL 3. PC 4. TH BE 5. AF 6. SC 7. TH	IFICA RINTEI L LE/ DSITIC HE PR: E MARK PPPLY CREW(H HIS PN	TION DE WIRINA ADS SHAA ON COMPA INTED W KED ON HEATSIA	G BOARD LL BE T ONENTS IRING A THE PRI NK COMP TO BE MEET A	D IN IPC PART NU RIMMED AS SHOW SSEMBLY NTED WIF OUND (CF TORQUED	-A-610_ CL JMBER 1270 TO 0.093" N ON COMPO PART NUMB RING BOARD PN S2162-6 TO 8-10 I	OR LESS. NENT MAP. ER FOR THIS AS AND SHALL BE ) BETWEEN U2 A	SEMBLY S Permanen ND HEATS	HALL T. INK (U2	x).
						TIC CAN DAM	TIDN AGE COMPONENTS! HANDLE STRAP IS WORN			
PROPER SHALL AS THE	TY OF NOT BE BASIS	CROWN I REPROI	INTERNATI DUCED, CO HE MANUFA	ATIONS AF ONAL, INC PIED, OR CTURE OR HOUT PERM	. AND USED SALE	CONTROLLED	UNCONTROLLE RWISE MARKED IN RE COPY. COPIES OF TH SSOCIATED ELECTRON ERENCE ONLY.	D INK BY CH	NTS	
к	RIBUTI	0N	DWN CHK	JG JUM	05-30-00 5-31-00			ELKHART PHONE(21	MISHAWAK IN, 4651 9)294-800 MINTL.CO	7 00
FILENAM 127027- TOLERAI OTHERWI	-6_A_0	LESS	CM PE	UB M	6/1/00 5-31-00	TITLE	A, CE400		YBAC	K
. 00	0 = ±. 0 = ±. 5 = ±.	010"				SIZE DWG ND	127027-	-6		REV A
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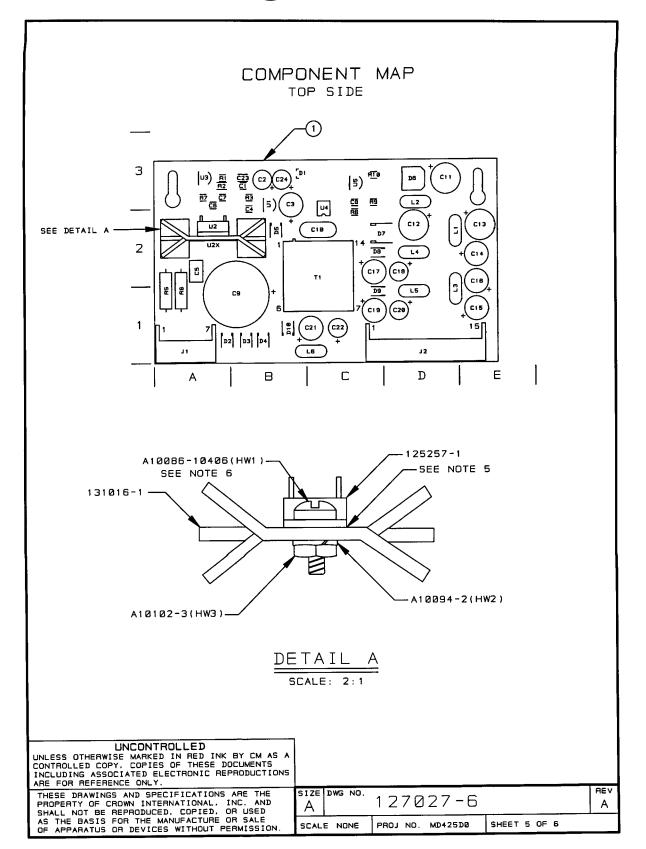


1         127825-3         PWB. CE4000 FLYBACK         Description           C1         A11427-103X2         .01 UF 50V 10% X7R MLC 0805         B 3           C2         12585-1         A7UF 50V 2.5MM L/S VERT CAP         B 3           C3         126631-1         CAP. 220UF 25V RAD ELECT         B 3           C4         A11427-104X2.1UF 50V CHIP CAP 10% 0805 X7R         B 3           C5         A10432-151KF 150PF 530VDC 10% PADP CAP T/A         A 2           C6         A1139-1522.1500FF 500 VS.NPO MCC 0805 X7R         A 3           C7         A11427-104K2         1UF 50V CHIP CAP 10% 0805 X7R         C 3           C9         127032-1         CAP. 50V S.NPO MCC 0805 X7R         C 3           C9         127032-1         CAP. 3200F 25V RAD ELECT         D 3           C10         126530-1         CAP. 470UF 25V RAD ELECT         D 2           C11         126530-1         CAP. 420UF 25V RAD ELECT         E 2           C14         126531-1         CAP. 220UF 25V RAD ELECT         E 2           C15         126631-1         CAP. 220UF 25V RAD ELECT         C 1           C16         12655-1         47UF 50V 2.5MM L/S VERT CAP         D 2           C15         12655-1         A12UF 50V 2.5MM L/S VERT CAP         D 2 <th></th> <th></th> <th>PARTS LIST</th> <th></th>			PARTS LIST	
C1       A11427-103K2       01 UF 50V 12X XR ML C0 005       B 3         C2       125835-1       47UF 50V 2.5MM L/S VERT CAP       B 3         C3       12631-1       CAP. 220UF 25V RAD ELECT       B 3         C4       A11427-104K2       1UF 50V CHIP CAP 10X.0805 X7R       B 3         C5       A10432-151K1F 150PF 530V 52 XX NPOM CAP 10X.0805 X7R       A 3         C6       A11427-104K2       1UF 50V CHIP CAP 10X.0805 X7R       C 3         C7       A11427-104K2       1UF 50V CHIP CAP 10X.0805 X7R       C 3         C8       A11427-104K2       1UF 50V CHIP CAP 10X.0805 X7R       C 3         C9       127032-1       CAP. 470UF 25V RAD ELECT       D 2         C10       126530-1       CAP. 470UF 25V RAD ELECT       D 2         C11       126530-1       CAP. 470UF 25V RAD ELECT       E 2         C14       126531-1       CAP. 220UF 25V RAD ELECT       E 2         C15       12631-1       CAP. 220UF 25V RAD ELECT       E 2         C16       126531-1       CAP. 220UF 25V RAD ELECT       C 2         C11       126531-1       CAP. 220UF 25V RAD ELECT       C 1         C2631-1       CAP. 220UF 25V RAD ELECT       C 1         C12       126531-1       CAP. 220UF 25V RAD	REF DES	C.P.N.	DESCRIPTION	MAP LOC.
C2       125955-1       47UF 50V 2.5MM L/S VERT CAP       B 3         C3       126531-1       C.P. 220UF 25V RAD ELECT       B 3         C4       A11427-104K2       1UF 50V CHIP CAP 10X 0005 X7R       B 3         C5       A10432-151KF 150PF 530VDC 10X PROP CAP T/A       A 2         C6       A11399-1522J 1500PF 50V 5X NO MC 0005 X7R       A 3         C7       A11427-104K2       1UF 50V CHIP CAP 10X 0005 X7R       A 3         C8       A11427-104K2       1UF 50V CHIP CAP 10X 0005 X7R       A 3         C9       127032-1       CAP. 50UF 450V HIGH RIPPLE       B 1         C10       126530-1       CAP. 470UF 25V RAD ELECT       D 2         C11       126530-1       CAP. 470UF 25V RAD ELECT       E 2         C13       126530-1       CAP. 470UF 25V RAD ELECT       E 2         C14       126531-1       CAP. 220UF 25V RAD ELECT       E 2         C15       126631-1       CAP. 220UF 25V RAD ELECT       C 2         C18       126531-1       CAP. 220UF 25V RAD ELECT       C 1         C20       126535-1       47UF 50V 2.5MM L/S VERT CAP       D 2         C16       126531-1       CAP. 220UF 25V RAD ELECT       C 1         C21       126535-1       47UF 50V 2.5MM L/S VER	1	127026-3	PWB, CE4000 FLYBACK	
C3         128831-1         CAP.         228UF         25V         RAD         ELECT         B           C4         A11427-104K2         1UF         50V         CHIP         CAP         10X         6085         X7R         B           C5         A10432-151KF         1S0PF         53V C         NC MLC         6085         X7R         A           C6         A11427-104K2         1UF         50V         CHIP         CAP         10X         8085         X7R         A           C7         A11427-104K2         1UF         50V         CHIP         CAP         10X         8085         X7R         A           C8         A11427-104K2         1UF         50V         CHIP         CAP         10X         8085         X7R         A           C10         126532-1         CAP.         2200F         25V         RAD         ELECT         D         2           C11         126530-1         CAP.         2200F         25V         RAD         ELECT         E         2           C12         126531-1         CAP.         2200F         25V         RAD         ELECT         C         2           C13         126531-1	C1	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	B 3
C4         A11427-104K2         1UF SOV CHIP CAP 10% 0005 X7R         B 3           C5         A10432-151KF         150PF 630VDC 10% PAD CAP T/A         A 2           C6         A11329-15221         150PF 630VDC 10% PAD CAP T/A         A 3           C7         A11427-104K2         1UF 50V CHIP CAP 10% 0005 7/R         A 3           C7         A11427-104K2         1UF 50V CHIP CAP 10% 0005 7/R         C 3           C8         A11427-104K2         1UF 50V CHIP CAP 10% 0005 X7R         C 3           C9         127032-1         CAP. 56UF 450V CHIP CAP 10% 0005 X7R         C 3           C10         126530-1         CAP. 470UF 25V RAD ELECT         D 3           C11         126530-1         CAP. 470UF 25V RAD ELECT         E 2           C13         126530-1         CAP. 470UF 25V RAD ELECT         E 2           C14         126531-1         CAP. 220UF 25V RAD ELECT         E 2           C15         126531-1         CAP. 220UF 25V RAD ELECT         E 2           C16         126555-1         47UF 50V 2.5MM L/S VERT CAP         D 2           C18         125655-1         47UF 50V 2.5MM L/S VERT CAP         D 1           C21         126555-1         47UF 50V 2.5MM L/S VERT CAP         D 1           C22         1	C2	125855-1	47UF 50V 2.5MM L/S VERT CAP	83
C4         A11427-104K2         1UF S0V CHIP CAP 10X 0805 X7R         B 3           C5         A10432-151KF         150PF 638VDC 10X PROP CAP T/A         A 3           C6         A11369-152J2         1500PF 58V SX NPO MLC 0605 T/R         A 3           C7         A11427-104K2         1UF 50V CHIP CAP 10X 0805 X7R         C 3           C8         A11427-104K2         1UF 50V CHIP CAP 10X 0805 X7R         C 3           C9         127032-1         CAP. 56UF 450V CHIP CAP 10X 0805 X7R         C 3           C9         127032-1         CAP. 470UF 25V RAD ELECT         D 3           C10         1266330-1         CAP. 470UF 25V RAD ELECT         D 3           C12         126631-1         CAP. 470UF 25V RAD ELECT         E 2           C14         126531-1         CAP. 220UF 25V RAD ELECT         E 2           C15         126631-1         CAP. 220UF 25V RAD ELECT         E 2           C16         126531-1         CAP. 220UF 25V RAD ELECT         C 2           C18         125855-1         47UF 50V 2.5MM L/S VERT CAP         D 2           C10         126531-1         CAP. 220UF 25V RAD ELECT         C 1           C22         126555-1         47UF 50V 2.5MM L/S VERT CAP         D 2           C11         126631-1<		126631-1	CAP, 220UF 25V RAD ELECT	B 3
CE         A18432-151KF         150PF         538YDC         102         PROP         CAP         T/A         A           C6         A11369-152J2         1500PF         SGV 5X.NPO         A         A           C7         A11427-104K2         1UF         SGV CHIP         CAP         10X.0805         X7R         A           C3         127032-1         CAP.56V         FASW HIGH AIPPLE         B         1           C10         126632-1         CAP. 470UF         25V RAD ELECT         D         2           C11         126630-1         CAP. 470UF         25V RAD ELECT         D         2           C13         126631-1         CAP. 470UF         25V RAD ELECT         E         2           C14         126631-1         CAP. 220UF         25V RAD ELECT         E         2           C15         126631-1         CAP. 220UF         25V RAD ELECT         C         2           C13         126631-1         CAP. 220UF         25V RAD ELECT         C         2           C14         126531-1         CAP. 220UF 25V RAD ELECT         C         1           C28         125655-1         47UF 50V 2.5MM L/S VERT CAP         D         1           C21 <td></td> <td>A11427-104K2</td> <td>1UF 50V CHIP CAP 10% 0805 X7R</td> <td>83</td>		A11427-104K2	1UF 50V CHIP CAP 10% 0805 X7R	83
C6         A11369-152J2         1580/PF         SW CHIP         CAR         A3           C7         A11427-184K2         .1UF         SW CHIP         CAR         1808         SWRAM         A3           C8         A11427-184K2         .1UF         SW CHIP         CAR         1808         SWRAM         C3           C9         127832-1         CAR         SSUF         4580         HIGH RIPPLE         B1           C10         126632-1         CAR         4780F         25V RAD         ELECT         D2           C11         126630-1         CAP         4780F         25V RAD         ELECT         D2           C13         126631-1         CAP         4780F         25V RAD         ELECT         E2           C14         126631-1         CAP         2280F         25V RAD         ELECT         E2           C15         126631-1         CAP         2280F         25V RAD         ELECT         C2         C1           C16         126631-1         CAP         2280F         25V RAD         ELECT         C1           C16         126631-1         CAP         2280F         25V RAD         ELECT         C1           C28				A 2
C7       A11427-104K2       1UF 50V CHIP CAP 10% 0085 X7R       A 3         C8       A11427-104K2       1UF 50V CHIP CAP 10% 0085 X7R       C 3         C9       127032-1       CAP. 2500F 450V HIGH RIPPLE       B 1         C10       126630-1       CAP. 2200FP CER DISK Y RATED       C 2         C11       126630-1       CAP. 470UF 25V RAD ELECT       D 3         C12       126630-1       CAP. 470UF 25V RAD ELECT       E 2         C13       126631-1       CAP. 470UF 25V RAD ELECT       E 2         C14       126631-1       CAP. 220UF 25V RAD ELECT       E 2         C15       126631-1       CAP. 220UF 25V RAD ELECT       E 2         C12       126631-1       CAP. 220UF 25V RAD ELECT       E 2         C13       126631-1       CAP. 220UF 25V RAD ELECT       C 2         C14       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C20       125631-1       CAP. 220UF 25V RAD ELECT       C 1         C21       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C22       125651-1       47UF 50V 2.5MM L/S VERT CAP       D 1         C21       125651-1       47UF 50V 2.5MM L/S VERT CAP       C 1         C22       125655-1       47UF 50V				A 3
CB         A11427-104K2         IUF S0V CHIP CAP 10% 0005 X7R         C 3           C3         127032-1         CAP, S6UF 450V HIGH RIPPLE         B 1           C10         126632-1         CAP, S200PF CER DISK Y RATED         C 2           C11         126632-1         CAP, 470UF 25V RAD ELECT         D 3           C12         126630-1         CAP, 470UF 25V RAD ELECT         E 2           C13         126630-1         CAP, 470UF 25V RAD ELECT         E 2           C14         126631-1         CAP, 220UF 25V RAD ELECT         E 2           C15         126631-1         CAP, 220UF 25V RAD ELECT         E 2           C17         126631-1         CAP, 220UF 25V RAD ELECT         E 2           C18         126631-1         CAP, 220UF 25V RAD ELECT         C 2           C19         126631-1         CAP, 220UF 25V RAD ELECT         C 1           C20         128955-1         47UF 50V 2.5MM L/S VERT CAP         D 1           C21         126631-1         CAP, 220UF 25V RAD ELECT         C 1           C22         128955-1         47UF 50V 2.5MM L/S VERT CAP         D 1           C21         126535-1         47UF 50V 2.5MM L/S VERT CAP         B 3           C23         A11427-473K5         047UF 50V 2.5MM				E A
E9       127832-1       CAP. 56UF 450Y HIGH RIPPLE       B 1         C10       126632-1       CAP. 2200PF CER DISK Y RATED       C 2         C11       126630-1       CAP. 470UF 25V RAD ELECT       D 3         C12       126630-1       CAP. 470UF 25V RAD ELECT       D 2         C13       126630-1       CAP. 470UF 25V RAD ELECT       E 2         C13       126631-1       CAP. 220UF 25V RAD ELECT       E 2         C15       126631-1       CAP. 220UF 25V RAD ELECT       E 2         C15       126631-1       CAP. 220UF 25V RAD ELECT       E 2         C18       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C2619       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C21       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C21       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C21       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C22       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C21       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C22       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C22       126631-1       DAVE 50V 2.5MM L/S VERT CAP </td <td></td> <td></td> <td></td> <td>СЗ</td>				СЗ
C10         126632-1         CAP. 478UF         CER DISK Y RATED         C 2           C11         126630-1         CAP. 478UF         ZSV RAD ELECT         D 3           C12         126630-1         CAP. 478UF         ZSV RAD ELECT         D 2           C13         126630-1         CAP. 478UF         ZSV RAD ELECT         E 2           C14         126631-1         CAP. 478UF         ZSV RAD ELECT         E 2           C15         126631-1         CAP. 228UF         ZSV RAD ELECT         E 2           C17         126631-1         CAP. 228UF         ZSV RAD ELECT         C 2           C18         126631-1         CAP. 228UF         ZSV RAD ELECT         C 1           C26         126631-1         CAP. 228UF         ZSV RAD ELECT         C 1           C21         126631-1         CAP. 228UF         ZSV RAD ELECT         C 1           C22         126631-1         CAP. 228UF         ZSV RAD ELECT         C 1           C23         126631-1         CAP. 228UF         ZSV RAD ELECT         C 1           C24         126855-1         47UF         SV 2.5MM L/S VERT CAP         D 1           C22         126855-1         47UF SV 2.5MM L/S VERT CAP         C 1				8 1
C11         126630-1         CAP.         478UF         25V         RAD         ELECT         D         3           C12         126630-1         CAP.         478UF         25V         RAD         ELECT         D         2           C13         126631-1         CAP.         478UF         25V         RAD         ELECT         E         2           C14         126631-1         CAP.         228UF         25V         RAD         ELECT         E         2           C15         126631-1         CAP.         228UF         25V         RAD         ELECT         C         2           C18         126631-1         CAP.         228UF         25V         RAD         ELECT         C         2           C19         126631-1         CAP.         228UF         25V         RAD         ELECT         C         1           C21         126631-1         CAP.         228UF         25V         RAD         ELECT         C         1           C22         125855-1         47UF         50V         2.5MM         L/S         VERT         CAP         D         1           C22         125855-1         47UF         50V				C 2
C12         126630-1         CAP.         470UF         25V         RAD         ELECT         D         2           C13         126630-1         CAP.         470UF         25V         RAD         ELECT         E         2           C14         126631-1         CAP.         470UF         25V         RAD         ELECT         E         2           C15         126631-1         CAP.         220UF         25V         RAD         ELECT         E         2           C17         126631-1         CAP.         220UF         25V         RAD         ELECT         C         2           C18         125655-1         47UF         56V         2.5MM L/S VERT         CAP         D         1           C20         125855-1         47UF         56V         2.5MM L/S VERT         CAP         C         1           C21         125855-1         47UF         56V         2.5MM L/S VERT         CAP         C         1           C22         125855-1         47UF         58V         2.5MM L/S VERT         CAP         1           C23         A11427-473X5         .47UF         58V VAR         L         1         1           <				
C13         126630-1         CAP. 478UF         25V         RAD         ELECT         E         2           C14         126631-1         CAP. 220UF         25V         RAD         ELECT         E         2           C15         126631-1         CAP. 220UF         25V         RAD         ELECT         E         1           C15         126631-1         CAP. 220UF         25V         RAD         ELECT         C         2           C19         126631-1         CAP. 220UF         25V         RAD         ELECT         C         1           C20         125855-1         47UF         56V         2.5MM         L/S         VERT         CAP         D         1           C21         125655-1         47UF         56V         2.5MM         L/S         VERT         CAP         C         1           C23         A11427-473K5         047UF         50V         2.5MM         L/S         VERT         CAP         B         3           D2         126620-1         DIDDE, MBD4149/914         S07-23         SMT         B         1           D3         126620-1         DIODE, 600V         A SMB         ULTRAFAST         A         1 </td <td></td> <td></td> <td></td> <td></td>				
C14       128631-1       CAP. 220UF 25V RAD ELECT       E 2         C15       126631-1       CAP. 220UF 25V RAD ELECT       E 1         C16       126631-1       CAP. 220UF 25V RAD ELECT       E 2         C17       126631-1       CAP. 220UF 25V RAD ELECT       C 2         C18       126631-1       CAP. 220UF 25V RAD ELECT       C 2         C19       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C20       125655-1       47UF 50V 2.5MM L/S VERT CAP       D 1         C21       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C22       125855-1       47UF 50V 2.5MM L/S VERT CAP       C 1         C23       A11427-473K5       .047UF 50V 2.5MM L/S VERT CAP       C 1         C24       125855-1       47UF 50V 2.5MM L/S VERT CAP       B 3         C24       125855-1       47UF 50V 2.5MM L/S VERT CAP       B 3         D1       C 9283-0       D 10DE. MB04148/914 S01-23 SMT       B 3         D2       126620-1       D 10DE. 600V 1A SMB ULTRAFAST       A 1         D3       126620-1       D 10DE. 180V 3W SMB ZENFR       B 1         D4       126619-1       D 10DE. 200V 2A ULTRAFAST SMB       B 2         D5       126619-1       D 1				
C15         126631-1         CAP. 220UF 25V RAD ELECT         E 1           C15         126631-1         CAP. 220UF 25V RAD ELECT         E 2           C17         126631-1         CAP. 220UF 25V RAD ELECT         C 2           C18         125635-1         47UF 50V 2.5MM L/S VERT CAP         D 2           C19         126631-1         CAP. 220UF 25V RAD ELECT         C 1           C20         125855-1         47UF 50V 2.5MM L/S VERT CAP         D 1           C21         126631-1         CAP. 220UF 25V RAD ELECT         C 1           C22         125855-1         47UF 50V 2.5MM L/S VERT CAP         D 1           C23         A11427-473K5         .047UF 50V 2.5MM L/S VERT CAP         B 3           D1         C 9283-0         DIODE, MMBD4148/914 SOT-23 SMT         B 3           D2         126620-1         DIODE, 600V 1A SMB ULTRAFAST         A 1           D3         126620-1         DIODE, 100V 3W SMB ZENER         B 1           D4         126620-1         DIODE, 200V 2A ULTRAFAST SMB         B 2           D6         127361-1         DIODE, 200V 2A ULTRAFAST SMB         B 2           D6         127361-1         DIODE, 200V 2A ULTRAFAST SMB         B 2           D8         1265255-1         DIODE,				
C15         126531-1         CAP.         220UF         25V         RAD         ELECT         E         2           C17         126631-1         CAP.         220UF         25V         RAD         ELECT         C         2           C18         1266531-1         CAP.         220UF         25V         RAD         ELECT         C         1           C19         1266531-1         CAP.         220UF         25V         RAD         ELECT         C         1           C20         125855-1         47UF         50V         2.5MM         L/S         VERT         CAP         D         1           C21         126531-1         CAP.         220UF         25V         RAD         ELECT         C         1           C22         125855-1         47UF         50V         2.5MM         L/S         VERT         CAP         B         3           C24         126520-1         DIODE.         60V         1A         SMB         UTRAFAST         B         1           D4         126621-1         DIODE.         60V         23W         MA         MA         D         1           D5         126618-1         DIODE.				
C17         126631-1         CAP. 220UF 25V RAD ELECT         C 2           C18         125855-1         47UF 50V 2.5MM L/S VERT CAP         D 2           C19         126631-1         CAP. 220UF 25V RAD ELECT         C 1           C20         125855-1         47UF 50V 2.5MM L/S VERT CAP         D 1           C21         126631-1         CAP. 220UF 25V RAD ELECT         C 1           C22         125855-1         47UF 50V 2.5MM L/S VERT CAP         C 1           C23         A11427-473K5         .047UF 50V 2.5MM L/S VERT CAP         B 3           C24         125855-1         47UF 50V 2.5MM L/S VERT CAP         B 3           D1         C 9283-0         DIODE. 600V 1A SMB ULTRAFAST         A 1           D3         126620-1         DIODE. 600V 1A SMB ULTRAFAST         B 1           D4         126610-1         DIODE. 200V 2A ULTRAFAST SMB         B 2           D6         127361-1         DIODE. ULTRAFAST 200V 1A SMA         C 2           D8         125255-1         DIODE. ULTRAFAST 200V 1A SMA         C 2           D9         125255-1         DIODE. ULTRAFAST 200V 1A SMA         C 2           D9         125255-1         DIODE. ULTRAFAST SMB         B 1           D14         126618-1         DIODE.				
C18       125855-1       47UF 50V 2.5MM L/S VERT CAP       D 2         C19       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C20       125855-1       47UF 50V 2.5MM L/S VERT CAP       D 1         C21       126631-1       CAP. 220UF 25V RAD ELECT       C 1         C22       125855-1       47UF 50V 2.5MM L/S VERT CAP       C 1         C23       A11427-473K5       .047UF 50V 2.5MM L/S VERT CAP       B 3         C24       125855-1       47UF 50V 2.5MM L/S VERT CAP       B 3         D1       C 9203-0       D10DE, MMBD4148/914 S0T-23 SMT       B 3         D2       126620-1       D10DE, 600V 1A SMB ULTRAFAST       B 1         D3       126620-1       D10DE, 800V 1A SMB ULTRAFAST       B 1         D4       126620-1       D10DE, 800V 1A SMB ULTRAFAST       B 1         D5       126610-1       D10DE, 200V 2A ULTRAFAST SMB       B 2         D6       127361-1       D10DE, 200V 4A SMC ULTRAFAST       C 2         D8       125255-1       D10DE, ULTRAFAST 200V 1A SMA       C 2         D9       125255-1       D10DE, ULTRAFAST 200V 1A SMA       C 1         D10       1260494-2       U4 INT STAR LOCKWASHER       A 2         HW1       A100894-2				
C19       126631-1       CAP, 220UF 25V RAD ELECT       C 1         C20       125655-1       47UF 50V 2.5MM L/S VERT CAP       D 1         C21       125655-1       47UF 50V 2.5MM L/S VERT CAP       C 1         C22       125655-1       47UF 50V 2.5MM L/S VERT CAP       C 1         C23       A11427-473K5 .047UF 50V 2.5MM L/S VERT CAP       B 3         C24       125855-1       47UF 50V 2.5MM L/S VERT CAP       B 3         C24       125856-1       47UF 50V 2.5MM L/S VERT CAP       B 3         D1       C 9283-0       DIODE, MMBD4148/914 SOT-23 SMT       B 3         D2       126620-1       DIODE, 600V 1A SMB ULTRAFAST       A 1         D3       126620-1       DIODE, 180V 3W SMB ZENER       B 1         D5       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 2         D6       127361-1       DIODE, 200V 4A SMC ULTRAFAST       C 2         D8       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 2         D9       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406       4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10086-10406				
C20         125855-1         47UF 50V 2.5MM L/S VERT CAP         D 1           C21         126631-1         CAP. 220UF 25V RAD ELECT         C 1           C22         125855-1         47UF 50V 2.5MM L/S VERT CAP         C 1           C23         A11427-473K5         047UF 50V CHIP CAPACITOR X7R         B 3           C24         125855-1         47UF 50V CHIP CAPACITOR X7R         B 3           D1         C 9233-0         DIDDE, MMBD414B/314 SOT-23 SMT         B 3           D2         126620-1         DIDDE, 600V 1A SMB ULTRAFAST         A 1           D3         126620-1         DIDDE, 600V 1A SMB ULTRAFAST         B 1           D4         126621-1         DIDDE, 160V 2A ULTRAFAST         B 1           D5         126618-1         DIODE, 200V 2A ULTRAFAST SMB         B 2           D6         127361-1         DIODE, ULTRAFAST 200V 1A SMA         C 2           D9         125255-1         DIODE, ULTRAFAST 200V 1A SMA         C 1           D10         126618-1         DIODE, ULTRAFAST 200V 1A SMA         C 1           D18         125255-1         DIODE, ULTRAFAST 200V 1A SMA         C 1           D18         126618-1         DIODE, ULTRAFAST 200V 1A SMA         C 1           D18         126618-1				
C21         126631-1         CAP. 220UF 25V RAD ELECT         C 1           C22         125855-1         47UF 50V 2.5MM L/S VERT CAP         C 1           C23         A11427-473K5         .047UF 50V 2.5MM L/S VERT CAP         B 3           C24         125855-1         47UF 50V 2.5MM L/S VERT CAP         B 3           D1         C 9283-0         DIODE, MMBD4148/914 SOT-23 SMT         B 3           D2         126620-1         DIODE, 600V 1A SMB ULTRAFAST         A 1           D3         126620-1         DIODE, 600V 1A SMB ULTRAFAST         B 1           D4         126621-1         DIODE, 78ST RCVY 200V 4A DPAK         D 3           D7         126619-1         DIODE, 200V 4A SMC ULTRAFAST         C 2           D8         125255-1         DIODE, ULTRAFAST 200V 1A SMA         C 1           D10         126619-1         DIODE, 200V 4A ULTRAFAST SMB         B 1           HW1         A10085-10406 4-40 X.37 RDHR AS MSCR Z         A 2           HW2         A10085-10406 4-40 X.37 RDHR AS MSCR Z         A 2           HW2         A10085-10406 4-40 X.37 RDHR AS MSCR Z         A 2           HW2         A10085-10406 4-40 X.37 RDHR AS MSCR Z         A 2           HW3         A10102-3         4 X 40 HEX NUT         A 2				
C22         125855-1         47UF 50V 2.5MM L/S VERT CAP         C 1           C23         A11427-473K5         047UF 50V 2.5MM L/S VERT CAP         B 3           C24         125855-1         47UF 50V 2.5MM L/S VERT CAP         B 3           D1         C 9283-0         DIODE, MMBD4146/914 SOT-23 SMT         B 3           D2         126620-1         DIODE, 600V 1A SMB ULTRAFAST         A 1           D3         126620-1         DIODE, 600V 1A SMB ULTRAFAST         B 1           D4         126620-1         DIODE, 700V 2A ULTRAFAST SMB         B 2           D5         126618-1         DIODE, 200V 2A ULTRAFAST SMB         B 2           D6         127361-1         DIODE, 200V 4A SMC ULTRAFAST SMB         B 2           D8         125255-1         DIODE, ULTRAFAST 200V 1A SMA         C 2           D9         125255-1         DIODE, 200V 2A ULTRAFAST SMB         B 1           HW1         A10086-10406 4-40 X .37 RDHR A S MSCR Z         A 2           HW2         A10086-10406 4-40 X .37 RDHR A S MSCR Z         A 2           J1         127029-1         CONN. 7 PIN SHROUDED HDR         A 1           J2         127029-1         CONN. 7 PIN SHROUDED HDR         A 1           J2         127029-1         CONN. 7 PIN SHROUDED H				
C23       A11427-473K5       .047UF       50V       CHIP       CAACITOR       A3         C24       125855-1       47UF       50V       2.5MM       L/S       VERT       CAP       B3         D1       C 9283-0       DIODE, 600V       A SMB       ULTRAFAST       A1         D3       126620-1       DIODE, 600V       IA SMB       ULTRAFAST       B1         D4       126620-1       DIODE, 600V       IA SMB       ULTRAFAST       B1         D4       126620-1       DIODE, 600V       IA SMB       ULTRAFAST       B1         D5       126618-1       DIODE, 700V       IA MBULTRAFAST       B2         D6       127361-1       DIODE, 700V       IA MPAK       D3         D7       126619-1       DIODE, ULTRAFAST 200V       IA SMA       C 1         D8       125255-1       DIODE, ULTRAFAST 200V       IA SMA       C 1         D10       126618-1       DIODE, 200V       ILTRAFAST SMB       B 1         HW1       A10086-10406       4-40 X       .37 RDHR AS       MSCR Z       A 2         HW2       A1002-3       4 X 40 HEX NUT       A 2       A       2         HW2       A1002-4       X14 HEX NUT <td></td> <td>126631-1</td> <td></td> <td></td>		126631-1		
C24       125855-1       47UF 50V 2.5MM L/S VERT CAP       B 3         D1       C 9283-0       DIODE, MMBD4148/914 50T-23 SMT       B 3         D2       126620-1       DIODE, 600V 1A SMB ULTRAFAST       A 1         D3       126620-1       DIODE, 600V 1A SMB ULTRAFAST       B 1         D4       126621-1       DIODE, 200V 2A ULTRAFAST       B 1         D5       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 2         D6       127361-1       DIODE, 200V 2A ULTRAFAST SMB       B 2         D6       125255-1       DIODE, ULTRAFAST 200V 1A DPAK       D 3         D7       126619-1       DIODE, ULTRAFAST 200V 1A SMA       C 2         D8       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10085-10406 4-40 x .37 RDHR A 5 MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW2       A1002-3       4 x 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       C 1         J2       127029-1       CONN. 7 PIN SHROUDED HDR       C 1         L1       126496-1       CHOKE, 10UH 500MA AXIAL	C22			
D1       C 9283-8       DIODE, MMBD4148/914 SOT-23 SMT       B 3         D2       126620-1       DIODE, 600V 1A SMB ULTRAFAST       A 1         D3       126620-1       DIODE, 600V 1A SMB ULTRAFAST       B 1         D4       126620-1       DIODE, 160V 3W SMB ZENER       B 1         D5       126619-1       DIODE, 200V 2A ULTRAFAST SMB       B 2         D6       127361-1       DIODE, 200V 4A SMC ZENER       D 3         D7       126619-1       DIODE, 200V 4A SMC ULTRAFAST SMB       B 2         D8       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 2         D9       125255-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10085-10406       4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10084-2       #4 INT STAR LOCKWASHER       A 2         HW2       A10084-2       #4 A 10 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIA	C23	A11427-473K5	.047UF 50V CHIP CAPACITOR X7R	
D2       126620-1       DIODE, 600V 1A SMB ULTRAFAST       A 1         D3       126620-1       DIODE, 600V 1A SMB ULTRAFAST       B 1         D4       126621-1       DIODE, 600V 1A SMB ULTRAFAST       B 1         D5       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 2         D6       127351-1       DIODE, 76ST RCVY 200V 4A DPAK       D 3         D7       126619-1       DIODE, 200V 4A SMC ULTRAFAST       C 2         D8       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 2         D9       126618-1       DIODE, 200V 2A ULTRAFAST SMA       C 1         D10       126618-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406       4-40 X 37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A18102-3       4 X 40 HEX NUT       A 2         J1       127029-1       CONN. 7 PIN SHROUDED HDR       C 1         J2       127029-1       CONN. 7 PIN SHROUDED HDR       C 1         L1       126496-1       CHOKE, 10UH 500MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500	C24	125855-1	47UF 50V 2.5MM L/S VERT CAP	
D3       126620-1       DIODE, 600V 1A SMB ULTRAFAST       B 1         D4       126621-1       DIODE, 180V 3W SMB ZENER       B 1         D5       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 2         D6       127361-1       DIODE, 7AST RCVY 200V 4A DPAK       D 3         D7       126619-1       DIODE, 200V 4A SMC ULTRAFAST       C 2         D8       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126619-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D9       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126619-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406       4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127020-1       CONN. 7 PIN SHROUDED HDR       C 1         L1       126649-1       CHOKE, 10H 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL </td <td>D1 ·</td> <td>C 9283-0</td> <td>DIODE, MMBD4148/914 SOT-23 SMT</td> <td>83</td>	D1 ·	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	83
D4       126621-1       DIODE, 180V 3W SMB ZENER       B 1         D5       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 2         D6       127361-1       DIODE, RAST RCVY 200V 4A DPAK       D 3         D7       126619-1       DIODE, 200V 4A SMC ULTRAFAST SMB       B 2         D8       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 2         D9       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10065-10406 4-40 X.37 RDHR A S MSCR Z       A 2         HW2       A10034-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       C 1         J2       127029-1       CONN. 7 PIN SHROUDED HDR       C 1         L1       126648-1       CHOKE, 10UH 500MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1 <td>D2</td> <td>126620-1</td> <td>DIODE, 600V 1A SMB ULTRAFAST</td> <td>A 1</td>	D2	126620-1	DIODE, 600V 1A SMB ULTRAFAST	A 1
D5       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 2         D6       127361-1       DIODE, FAST RCVY 200V 4A DPAK       D 3         D7       126619-1       DIODE, 200V 4A SMC ULTRAFAST       C 2         D8       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406       4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127028-1       CONN. 7 PIN SHROUDED HDR       C 1         L1       126648-1       CHOKE, 10UH 500MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL	D3	126620-1	DIODE, 600V 1A SMB ULTRAFAST	81
D6       127361-1       DIODE. FAST RCVY 200V 4A DPAK       D 3         D7       126619-1       DIODE. 200V 4A SMC ULTRAFAST       C 2         D8       125255-1       DIODE. ULTRAFAST 200V 1A SMA       C 2         D9       125255-1       DIODE. ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE. 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406 4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       1266496-1       CHOKE. 100H 500MA AXIAL       D 2         L2       126496-1       CHOKE. 100H 500MA AXIAL       D 1         L4       126496-1       CHOKE. 100H 500MA AXIAL       D 1         L5       126496-1       CHOKE. 100H 500MA AXIAL       D 1     <	D4	126621-1	DIODE, 180V 3W SMB ZENER	81
D7       126619-1       DIODE, 200V 4A SMC ULTRAFAST       C 2         D8       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406 4-40 X.37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 7 PIN SHROUDED HDR       C 1         L1       126648-1       CHOKE, 10H S20MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH S00MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH S00MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH S00MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH S00MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH S00MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH S00MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH S00MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH S00MA AXIAL       D 1	D5	126618-1	DIODE, 200V 2A ULTRAFAST SMB	B 2
DB       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 2         D9       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406 4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       126649-1       CHOKE, 10UH 500MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1 <tr< td=""><td>D6</td><td>127361-1</td><td>DIODE, FAST RCVY 200V 4A DPAK</td><td>DЭ</td></tr<>	D6	127361-1	DIODE, FAST RCVY 200V 4A DPAK	DЭ
D9       125255-1       DIODE, ULTRAFAST 200V 1A SMA       C 1         D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406 4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       126649-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1	D7	126619-1	DIODE, 200V 4A SMC ULTRAFAST	C 2
D10       126618-1       DIODE, 200V 2A ULTRAFAST SMB       B 1         HW1       A10086-10406       4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       126648-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3	D8	125255-1	DIODE, ULTRAFAST 200V 1A SMA	C 2
HW1       A10086-10406       4-40 X .37 RDHR A S MSCR Z       A 2         HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       126648-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3	D9	125255-1	DIODE, ULTRAFAST 200V 1A SMA	C 1
HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127029-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       126649-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-22111       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         ESS OTHERWISE MARKED IN RED INK	D10	126618-1	DIODE, 200V 2A ULTRAFAST SMB	B 1
HW2       A10094-2       #4 INT STAR LOCKWASHER       A 2         HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127029-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       126649-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-22111       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         ESS OTHERWISE MARKED IN RED INK	HW1	A10086-10406	4-40 X . 37 RDHR A S MSCR Z	A 2
HW3       A10102-3       4 X 40 HEX NUT       A 2         J1       127028-1       CONN, 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN, 15 PIN SHROUDED HDR       C 1         L1       126648-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A1368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-2011       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS         FOR REFERENCE ONLY.       CPIESE DECUMENTS         CUDING ASSOCIATED ELECTRONIC REPRODUCTIONS       EFOR REFERENCE ONLY.	HW2	A10094-2	#4 INT STAR LOCKWASHER	A 2
J1       127028-1       CONN. 7 PIN SHROUDED HDR       A 1         J2       127029-1       CONN. 15 PIN SHROUDED HDR       C 1         L1       126648-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-2011 2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         Less OTHERWISE MARKED IN RED INK BY CM AS A         YRROLED COPY. COPIES OF THESE DOCUMENTS       B 3         LUNCONTROLLED       SIZE DWG NO.         Less OTHERWISE MARKED IN RED INK BY CM AS A         FOR REFERENCE ONLY.       SIZE DWG NO.				
J2       127029-1       CONN. 15 PIN SHRDUDED HDR       C 1         L1       126648-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-2011       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         Less OTHERWISE MARKED IN RED INK BY CM AS A         NROLEC COPY, COPIES OF THESE DOCUMENTS       B 3         LUNCONTROLLED       SIZE DWG NO.         Less DRAININGS AND SPECIFICATIONS ARE THE       SIZE DWG NO.				
L1       126648-1       CHOKE, 1UH 920MA AXIAL       D 2         L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 2         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-22111       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         Less OTHERWISE MARKED IN RED INK BY CM AS A         NROLEC COPY, COPIES OF THESE DOCUMENTS         LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS         FOR REFERENCE ONLY.         ESSE DRAWINCS AND SPECIFICATIONS ARE THE       SIZE DWG NO.				
L2       126496-1       CHOKE, 10UH 500MA AXIAL       D 3         L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 2         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-2011       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         LESS OTHERWISE MARKED IN RED INK BY CM AS A         NROLEC COPY, COPIES OF THESE DOCUMENTS       DUNICONTROLLED         LESS OTHERWISE MARKED IN RED INK BY CM AS A       SIZE DWG NO.         SIZE DOCUMENTS         CUDING ASSOCIATED ELECTRONIC REPRODUCTIONS         FOR REFERENCE ONLY.       SIZE DWG NO.				
L3       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 2         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20802       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-22111       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         LUNCONTROLLED         ESS OTHERWISE MARKED IN RED INK BY CM AS A         INCONTROLLED         ESS OTHERWISE MARKED IN RED INK BY CM AS A         FOR REFERENCE ONLY.         SIZE DWG NO.				
L4       126496-1       CHOKE, 10UH 500MA AXIAL       D 2         L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       C 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20802       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-22111       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         LUNCONTROLLED         LUNCONTROLLED         LINCONTROLLED         ESS OTHERWISE MARKED IN RED INK BY CM AS A         INCONTROLLED         LUNCONTROLLED         ESS OTHERWISE MARKED IN RED INK BY CM AS A         IFOR REFERENCE ONLY.         ESTED COPY. COPIES OF THESE DOCUMENTS         LUNCONTROL REPRODUCTIONS         FOR REFERENCE ONLY.				
L5       126496-1       CHOKE, 10UH 500MA AXIAL       D 1         L6       126496-1       CHOKE, 10UH 500MA AXIAL       C 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-22111       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         LESS OTHERWISE MARKED IN RED INK BY CM AS A         VROLED COPY, COPIES OF THESE DOCUMENTS         LUNIG ASSOCIATED ELECTRONIC REPRODUCTIONS         FOR REFERENCE ONLY.         FOR REFERENCE ONLY.				
L6       126496-1       CHOKE, 10UH 500MA AXIAL       C 1         R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-20111       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED       B       B         LUNCONTROLLED       B       B         LUNCONTROLLED       B       B         LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS       B         FOR REFERENCE ONLY.       SIZE DWG NO.				
R1       A11368-10001       100 OHM 1% 0805 RES T/R       A 3         R2       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-20R02       20 OHM .125W 1% 1206 T/R       A 3         R3       A11368-20111       2.21KOHM .1W 1% CHIP 0805       B 3         UNCONTROLLED         ESS OTHERWISE MARKED IN RED INK BY CM AS A         INCONTROLLED         ESS OTHERWISE MARKED IN RED INK BY CM AS A         INCONTROLLED         ESS OTHERWISE MARKED IN RED INK BY CM AS A         INCONTROLLED         ESS OTHERWISE MARKED IN RED INK BY CM AS A         IN REFERENCE ONLY.         ESS OTHERWISE MARKED IN RED INK BY CM AS A         IN REFERENCE ONLY.         ESS OTHERWISE MARKED IN RED INK BY CM AS A         IN REFERENCE ONLY.         ESS OF THESE DOCUMENTS         IN REFERENCE ONLY.         ESS OF REFERENCE ONLY.         ESS DRAWINGS AND SPECIFICATIONS ARE THE         SIZE DWG NO.				
R2       A11368-20R02       20 OHM       .125W 1%       1206 T/R       A 3         R3       A11368-22111       2.21KOHM       .1W 1%       CHIP 0805       B 3         UNCONTROLLED				· · · · · · · · · · · · · · · · · · ·
R3     A11368-22111     2.21KOHM     1W     1% CHIP     0805     B       UNCONTROLLED       ESS OTHERWISE MARKED IN RED INK BY CM AS A       UTROLLED COPY, COPIES OF THESE DOCUMENTS       CLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS       FOR REFERENCE ONLY.       ESSE DRAWINGS AND SPECIFICATIONS ARE THE       SIZE DWG NO.				
UNCONTROLLED ESS OTHERWISE MARKED IN RED INK BY CM AS A UTROLLED COPY. COPIES OF THESE DOCUMENTS LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY. ESSE DRAWINGS AND SPECIFICATIONS ARE THE SIZE DWG NO.				· · · · · · · · · · · · · · · · · · ·
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100115-1       91.0HM 2W 5% MF T/R 1W BODY       A 1         A11368-17511       4.75K0HM 0.10W 1% CHIP 0805       A 3         A11368-10001       100 OHM 1% 0805 RES T/R       C 2         A11368-55211       5.62K0HM .1W 1% 0805 T/R       C 3         A11368-11311       1.13K0HM .1W 1% 0805 T/R       C 3         126510-1       TRANSFORMER, 35W FLYBACK       C 2         127144-1       VOLT REG, +12V 100MA 4% T/R       B 3         125257-1       IC. SMPS CTRL VIPER100/A       A 2         C 9929-8       TL431ACLP ADJ PREC RENC T/A       A 3         128382-1       OPTO SFH615A-2 IEC65 COMPLIANT       C 2         C 9929-8       TL431ACLP ADJ PREC RENC T/A       A 3		•		PARTS LIST				
100115-1       91.0HM 2W 5% MF T/R 1W BODY       A 1         A11368-47511       4.75K0HM 0.10W 1% CHIP 0805       A 3         A11368-10001       100 0HM 1% 0805 RES T/R       C 2         A11368-55211       5.62K0HM .1W 1% 0805 T/R       C 3         A11368-11311       1.13K0HM .1W 1% 0805 T/R       C 3         126510-1       TRANSFORMER, 35W FLYBACK       C 2         127144-1       VOLT REG, +12V 100MA 4% T/R       B 3         125257-1       IC, SMPS CTRL VIPER100/A       A 2         C 9929-8       TL431ACLP ADJ PREC RFNC T/A       A 3         128382-1       OPTO SFH615A-2 IEC65 COMPLIANT       C 3	REF DES	C. P. N.	DESCRIPTION				MAP LOC	
100115-1       91.0HM 2W 5% MF T/R 1W BODY       A 1         A11368-47511       4.75K0HM 0.10W 1% CHIP 0805       A 3         A11368-10001       100 0HM 1% 0805 RES T/R       C 2         A11368-55211       5.62K0HM .1W 1% 0805 T/R       C 3         A11368-11311       1.13K0HM .1W 1% 0805 T/R       C 3         126510-1       TRANSFORMER, 35W FLYBACK       C 2         127144-1       VOLT REG, +12V 100MA 4% T/R       B 3         125257-1       IC, SMPS CTRL VIPER100/A       A 2         C 9929-8       TL431ACLP ADJ PREC RFNC T/A       A 3         128382-1       OPTO SFH615A-2 IEC65 COMPLIANT       C 3	R5	100115-1	91.0HM 2W 5%	ME T/R 1W	BODY		A 1	
A11368-10001       100 OHM 1% 0805 RES T/R       C 2         A11368-56211       5.62KOHM .1W 1% 0805 T/R       C 3         A11368-11311       1.13KOHM .1W 1% 0805 T/R       C 3         126510-1       TRANSFORMER, 35W FLYBACK       C 2         127144-1       VOLT REG, +12V 100MA 4% T/R       B 3         125257-1       IC. SMPS CTRL VIPER100/A       A 2         C 9929-8       TL431ACLP ADJ PREC RENC T/A       A 3         128382-1       OPTO SEH615A-2 IEC65 COMPLIANT       C 2         C 9929-8       TL431ACLP ADJ PREC RENC T/A       A 3	R6	100115-1						
A11368-10001       100 OHM 1% 0805 RES T/R       C 2         A11368-56211       5.62KOHM 1W 1% 0805 T/R       C 3         A11368-11311       1.13KOHM .1W 1% 0805 T/R       C 3         I26510-1       TRANSFORMER, 35W FLYBACK       C 2         127144-1       VOLT REG, +12V 100MA 4% T/R       B 3         125257-1       IC. SMPS CTRL VIPER100/A       A 2         C 9929-8       TL431ACLP ADJ PREC RFNC T/A       A 3         128382-1       OPTO SFH615A-2 IEC65 COMPLIANT       C 2         C 9929-8       TL431ACLP ADJ PREC RFNC T/A       A 3	R7	A11368-47511				• •	A 3	
A11368-56211       5.62KOHM       1W       1%       0805       T/R       C       3         A11368-11311       1.13KOHM       1W       1%       0805       T/R       C       3         126510-1       TRANSFORMER,       35W       FLYBACK       C       2         127144-1       VOLT       REG, +12V       100MA       4%       T/R       B       3         125257-1       IC,       SMPS       CTRL       VIPER100/A       A       2         C       9929-8       TL431ACLP       ADJ       PREC       RFNC       T/A       A         128382-1       OPTO       SFH615A-2       IEC65       COMPLIANT       C       2         C       9929-8       TL431ACLP       ADJ       PREC       RFNC       T/A       C       3	R8	A11368-10001	100 OHM 1% 08	05 RES T/R		• •		
A       A11368-11311       1.13KOHM       1% 0805 T/R       C 3         126510-1       TRANSFORMER, 35W FLYBACK       C 2         127144-1       VOLT REG, +12V 100MA 4% T/R       B 3         125257-1       IC, SMPS CTRL VIPER100/A       A 2         C 9929-8       TL431ACLP ADJ PREC RENC T/A       A 3         128382-1       OPTO SFH615A-2 IEC65 COMPLIANT       C 2         C 9929-8       TL431ACLP ADJ PREC RENC T/A       A 3	R9					· · ·		
126510-1         TRANSFORMER, 35W FLYBACK         C 2           127144-1         VOLT REG, +12V 100MA 4% T/R         B 3           125257-1         IC. SMPS CTRL VIPER100/A         A 2           C 9929-8         TL431ACLP ADJ PREC RFNC T/A         A 3           128382-1         OPTO SFH615A-2 IEC65 COMPLIANT         C 2           C 9929-8         TL431ACLP ADJ PREC RFNC T/A         A 3	R10							
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125257-1         IC, SMPS CTRL VIPER100/A         A 2           C 9929-8         TL431ACLP ADJ PREC RENC T/A         A 3           128382-1         OPTO SEH615A-2 IEC65 COMPLIANT         C 2           C 9929-8         TL431ACLP ADJ PREC RENC T/A         C 3								
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128382-1         OPTO_SFH615A-2_IEC65_COMPLIANT         C_2           C_9929-8         TL431ACLP_ADJ_PREC_RENC_T/A         C_3	U3					i		
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X       131016-1       HEATSINK. TO-220 PC MOUNT       A 2         X       X       X       X								
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BASIS FOR THE MANUFACTURE OR SALE PARATUS OR DEVICES WITHOUT PERMISSION. SCALE NONE PROJ NO. MD425DØ SHEET 4 OF 6				SCALE NONE	PROJ NO. MD4251	DØ SHEET	4 OF 6	





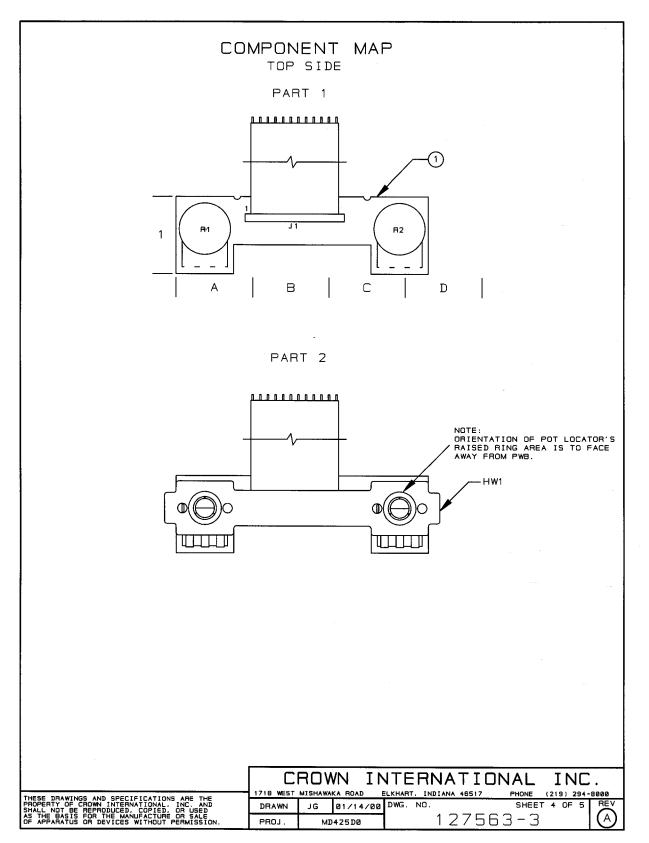


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REE DES	C.P.N.	PARTS LIST	
HW1		DESCRIPTION	MAP LOC.
	127784-2	LOCATOR, CE4000 POT MACHINED	A 1
J1	126604-2	12 POS SINGLE ROW CABLE ASSY	B 1
<u>R1</u>	C10245-6	5KOHM LNR 31 DETENT VERT PC	A 1
R2	C10245-6	5KOHM LNR 31 DETENT VERT PC	C 1
1	127562-3	PWB, CE4000 POT BOARD	
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		CROWN INTERNAT	IONAL INC
	D SPECIFICATIONS AN INTERNATIONAL, INN ODUCED, COPIED, OR THE MANUFACTURE OR EVICES WITHOUT PERM	RE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46	517 PHONE (219) 294-





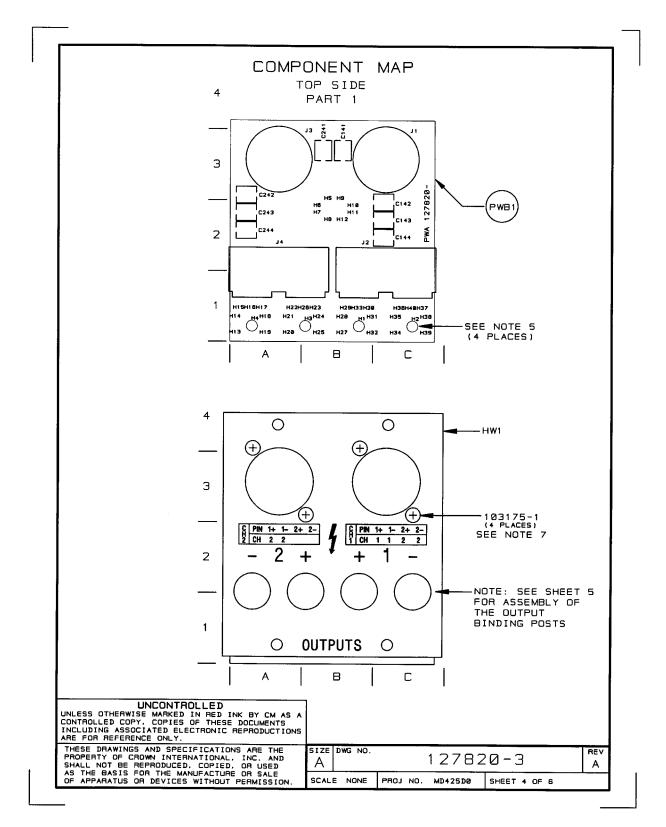


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127820-3			PE	X	4-27-00		CE4K S	PEAKON	∕8DG P	051	ΓΟ	TP.	т
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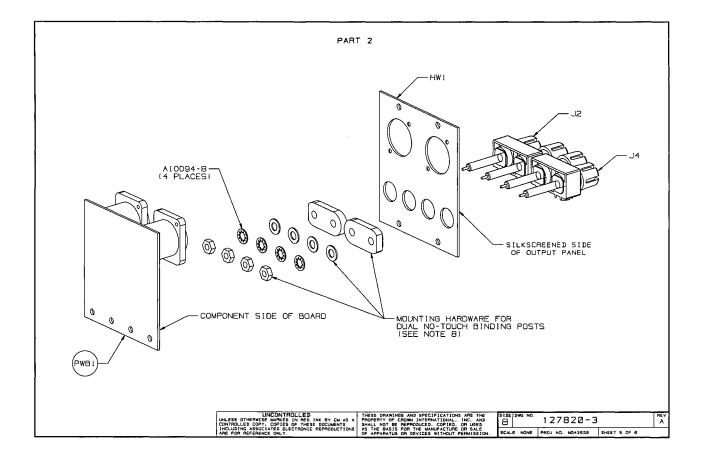


		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C141	A10434-104JD	1UF 250V 5% MTL POLY FILM T/A	83
C142	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	C 2
C143	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	C 2
□144	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	C 2
C241	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	83
C242	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	AЗ
C243	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	A 2
C244	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	A 2
HW1	127826-2	PNL, CE4000 STD DOM OTPT PC/PP	A 1
HW2	103175-1	M2.9X9.5MM FLT HD PH TFS BZ AB	A 4
нwз	103175-1	M2.9X9.5MM FLT HD PH TFS BZ AB	В 3
HW4	103175-1	M2.9X9.5MM FLT HD PH TFS BZ AB	B 4
HW5	103175-1	M2.9X9.5MM FLT HD PH TFS BZ AB	СЗ
HW6	A10094-8	#10 INT TOOTH LOCKWASHER ZINC	A 4
HW7	A10094-8	#10 INT TOOTH LOCKWASHER ZINC	В 3
HW8	A10094-8	#10 INT TOOTH LOCKWASHER ZINC	В 4
HW9	A10094-8	#10 INT TOOTH LOCKWASHER ZINC	СЗ
J1	126985-2	JACK, 4POLE PWB MT SPK ON M2.9	С 3
J2	127521-1	BDG POST, DUAL NO-TOUCH R-B	C 2
J3	126985-2	JACK, 4POLE PWB MT SPK ON M2.9	A 3
J4	127520-1	BDG POST, DUAL NO-TOUCH L-B	A 2
PWB1	127819-2	PWB, CE4000 SPKON/BNGD POST OUTPUT	
	12/010 2		
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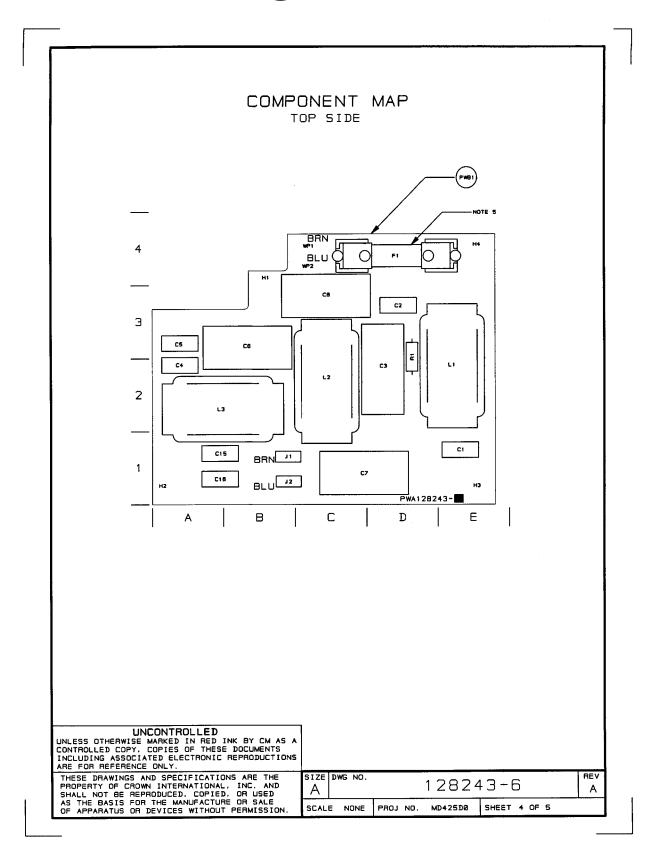


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			PARTS LIS	T				
REF DES	C. P. N.	DESCRIPTION					MAP LOC.	
C1	C10325-6	2200.PF 250VA	C 20% FIL	.M Y2			E 1	
C2	C10325-6	2200.PF 250VA	C 20% FIL	.M Y2			DЭ	
C3	C 7377-2	.68UF 250V RF	I CAP				D 2	
C4	C10325-6	2200.PF 250VA	C 20% FIL	.M Y2			A 2	
C5	C10325-6	2200.PF 250VA					A 3	
C6	C 7377-2	.68UF 250V RF	I CAP				В 3	
 C7	C 7377-2	.68UF 250V RF					<u> </u>	
C8	C 7377-2	.68UF 250V RF					<u> </u>	
C15	C10325-6	2200.PF 250VA		M X2				
C16	C10325-6	2200.PF 250VA					A 1	·
F1		FUSE, 20A FLM					A 1	
	A10285-29						SEE NOTE	51
F1X	C 8867-1	FUSE CLIP, PC					D 4	
F1XX	C 8867-1	FUSE CLIP, PC					D 4	
<u>J1</u>	101031-1	.250 FASTON.					B 1	
J2	101031-1	.250 FASTON,					<u>B</u> 1	
L1	127902-1	IDCTR, COMMON	MODE 20A	2MH VERT			E 2	
L2	127902-1	IDCTR, COMMON	MODE 20A	2MH VERT			C 2	
L3	127902-1	IDCTR, COMMON	MODE 20A	2MH VERT			A 2	
PWB1	128242-3	PWB, EMI FILT	ER					
R1	A10265-10042	1.00M .5W 1%	MF T/R	_			DЗ	
WP1		WIRE, 14 BRN		Ø X FAST			C 4	
WP2		WIRE, 14 BLU					C 4	
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	OR DEVICES WITH		SCALE NONE	PROJ NO.	MD425D0	SHEET	3 OF 5	







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## **6** Schematics

The schematics provided are representative only. There may be slight variations between amplifier to amplifier. These schematics are intended to be used for troubleshooting purposes only.

## **CE4000 MAIN**

PWA NUMBER: 126218-13 Schematic Sheet: 43 44 45 46 47 48 PWA NUMBER: 126218-14 Schematic Sheet: 43 44 45 46 47 48 PWA NUMBER: 126218-16 Schematic Sheet: 1 2 3 4 5

- 6 7
- 8

## CE4000 BFG

PWA NUMBER: 126828-7 (REV.A) Schematic Sheet: 8

PWA NUMBER: 126828-12 (REV.A) Schematic Sheet: 8

PWA NUMBER: 126828-13 (REV.A) Schematic Sheet: 9

**CE4000 INPUT CE** PWA NUMBER: 126883-4 Schematic Sheet: 5

**CE4000 FLYBACK** PWA NUMBER: 127027-6 Schematic Sheet: 6

**CE4000 POT BOARD** PWA NUMBER: 127563-3 Schematic Sheet: 5

PWA NUMBER: 127563-4 (REV.A) Schematic Sheet: 5

**CE 4K SPEAKON/BDG POST OTPT** PWA NUMBER: 127820-3 Schematic Sheet: 6

**CE4000 EMI FILTER** PWA NUMBER: 128243-6 Schematic Sheet: 5



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