

# Rack Mount Repeater

## VXR-9000 (VHF)

### Service Manual

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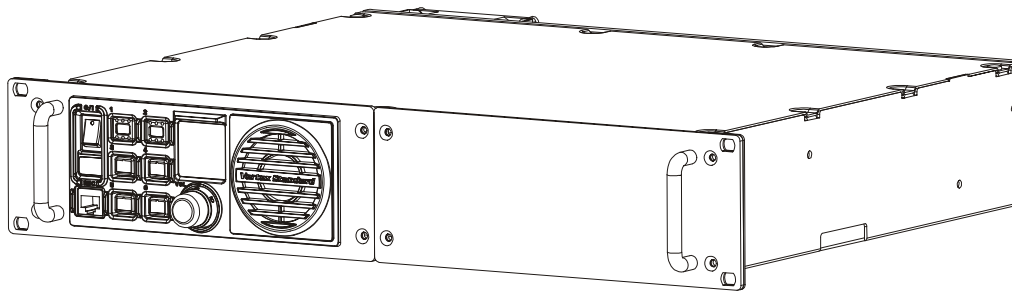
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## Introduction

This manual provides the technical information necessary for servicing the **VXR-9000** Rack Mount Repeater.

Servicing this equipment requires expertise in handling surface-mount chip components. Attempts by non-qualified persons to service this equipment may result in permanent damage not covered by the warranty, and may be illegal in some countries.

Two PCB layout diagrams are provided for each double-sided board in this transceiver. Each side of the board is referred to by the type of the majority of components installed on that side ("Side A" or "Side B"). In most cases one side has only chip components (surface-mount devices), and the other has either a mixture of both chip and leaded components (trimmers, coils, electrolytic capacitors, ICs, etc.), or leaded components only.

As described in the pages to follow, the advanced microprocessor design of the **VXR-9000** allows a complete alignment of this transceiver to be performed without opening the case of the radio; all adjustments can be performed from the personal computer, using with the Vertex Standard VPL-1 Programming Cable and CE60 Software.

While we believe the information in this manual to be correct, Vertex Standard assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.

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# Specifications

## General

|                              |  |
|------------------------------|--|
| Frequency Range:             | Type A : 134 - 160 MHz, Type C : 148 - 174 MHz     |
| Number of channel:           | 32   |
| Channel Spacing:             | 5 kHz/6.25 kHz, 2.5 kHz/6.25 kHz                   |
| Operating Voltage:           | 13.6 V DC $\pm$ 10 %                               |
| Current Drain:               | 12 A Maximum                                       |
| Duty Cycle:                  | Receive : 100 %<br>Transmit : 100 % (@25 W output) |
| Frequency Stability:         | 1.5 ppm<br>1.0 ppm (30min after wake up)           |
| Operating Temperature Range: | -22 °F to +140 °F (-30 °C to +60 °C)               |
| Dimensions (W x H x D):      | 19 x 3-1/2 x 13-1/2 inch (483 x 88 x 343 mm)       |
| Weight (Approx.):            | 21.4 lbs. (9.7 kg)                                 |

## Receiver

|                           |   |
|---------------------------|---|
| Antenna Impedance:        | 50 ohm  |
| Antenna Connector:        | Type-BNC  |
| Receiver Type:            | Double-Conversion Superheterodyne                             |
| Sensitivity:              | 0.25 $\mu$ V (12dB SINAD), 0.35 $\mu$ V (20dB Noise Quieting) |
| Selectivity:              | 85 dB (Wide), 75 dB (Narrow)                                  |
| Intermodulation:          | 82 dB (Wide), 78 dB (Narrow)                                  |
| Image Rejection:          | 90 dB   |
| Squelch Threshold:        | -5 dB $\mu$   |
| Audio Output:             | 4 W @4 ohm  |
| Audio Distortion:         | < 3 %   |
| Hum and Noise:            | >55 dB (Wide), >50 dB (Narrow)                                |
| Audio Frequency Response: | De-emphasis : 6 dB/oct (From 300 Hz to 3 kHz)                 |
| Conducted Spurious:       | <-80 dBm  |

## Transmitter

|                           |   |
|---------------------------|---|
| RF Output Power:          | 50/25/10 W (High/Mid/Low)                     |
| Antenna Impedance:        | 50 ohm  |
| Antenna Connector:        | Type-N  |
| Modulation Type:          | 16K0F3E/11K0F3E                               |
| System Deviation:         | $\pm$ 5.0 kHz (Wide), $\pm$ 2.5 kHz (Narrow)  |
| Hum and Noise:            | >50 dB (Wide), >45 dB (Narrow)                |
| Microphone Sensitivity:   | 5 mV  |
| Audio Frequency Response: | Pre-emphasis : 6dB/oct (From 300 Hz to 3 kHz) |
| Spurious Emission:        | 70 dB below carrier                           |
| Audio Distortion:         | 3.0 % @1 kHz                                  |
| Microphone Impedance:     | 600 ohm                                       |

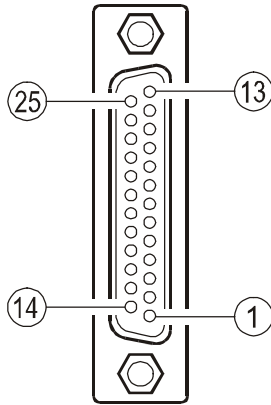
## 100 W PA Unit (Option)

|                              |                                      |
|------------------------------|--------------------------------------|
| Frequency Range:             | Type C: 148 - 174 MHz                |
| Antenna Impedance:           | 50 ohm                               |
| Antenna Connector:           | Type-N                               |
| RF Output Power:             | 100/75/50 W (High/Mid/Low)           |
| Duty Cycle:                  | 100 % (@Cooling Fan "ON")            |
| Spurious Emission:           | 75 dB below carrier                  |
| Operating Voltage:           | 13.6 V DC $\pm$ 10 %                 |
| Current Drain:               | 30 A Maximum                         |
| Operating Temperature Range: | -22 °F to +140 °F (-30 °C to +60 °C) |

*Specifications subject to change without notice or obligation.*

# DSUB 25-pin Accessory Connector

The **VXR-9000** repeater is provided with a 25-pin DB-25F female connector for interconnections to accessories. Use a DB-25M 25-pin male connector to connect accessories to the repeater. The pins on the accessory connector are explained in detail as follows:



**DB-25 PIN NUMBERING**

## **Pin 1: GND**

Chassis ground for all logic levels and power supply return.

## **Pin 2: +13.6 V**

[POWER SUPPLY]

This pin provides 13.6 Volts, 2.0 A, DC from the repeater supply. There is an internal 3 A fuse to prevent damage to the repeater.

## **Pin 3: TX AF IN**

[ANALOG TRANSMITTER INPUT] (VOICE BAND: 300 ~ 3,000 Hz)

This pin is s audio input. Input impedance is 600 Ohms. This audio is injected before the splatter filter stage, so excess signal input levels are clipped.

Use shielded cable to connect to this pin, and connect the shield to GND.

## **Pin 4: TONE IN**

[TRANSMITTER INPUT] (SUB-AUDIBLE BAND: 5 ~ 250 Hz)

This pin is sub-audible tone produces 10% of full system deviation. The nominal input voltage is 77.5 mVrms. The input impedance is @600 Ohms, and has a flat response characteristic (repeater deviation is constant for a given signal level over the frequency range of 5 ~ 250 Hz). Injecting too high a voltage here causes over-deviation of CTCSS or DCS, degrading performance. Use shielded cable to connect to this pin, connecting the shield to GND.

## **Pin 5: TX ATT**

This output is intended for controlling an external coaxial switching relay. It is an open drain output which can sink approx. 1.5 A when active. The delay time which is between the repeater cause to transmit mode and this port switches to ground can be programmed by your VERTEX STANDARD dealer.

## **Pin 6: DISC OUT**

[ANALOG OUTPUT] (WIDE-BAND: 0 ~ 3,000 Hz)

Received signals with full system deviation produce 350 mVrms audio at this pin. The output impedance is 600 Ohm, and is extracted before the de-emphasis and squelch circuitry. Use shielded cable to connect to this pin, and connect the shield to GND.

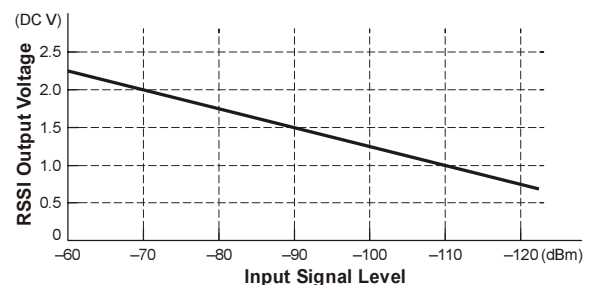
## **Pin 7: N.C.**

No connection.

## **Pin 8: RSSI**

[ANALOG OUTPUT]

A DC voltage proportional to the strength of the signal currently being received (Receiver Signal Strength Indicator) is provided on this pin. This low impedance output is generated by the receiver IF sub-system and buffered by an internal op-amp. Typical voltages are graphed as follows:



## **Pin 9: COAX. SW**

[LOGIC OUTPUT (ACTIVE LOW)]

This output is intended for controlling an external coaxial switching relay. It is an open drain output which can sink approx. 1.5 A when active. This signal only switches if the repeater has been programmed for "SIMPLEX" mode. If programmed for "DUPLEX," the signal remains open (high impedance) at all time.

# DSUB 25-pin Accessory Connector

## Pin 10, 13, 15, 16, 17, 18, 19, 21:

### PROGRAMMABLE I/O "0" ~ "7"

The **VXR-9000** provides eight ports (PIO) that can be programmed for various input or output signals, or for control functions. Each port may be programmed as to its function, its status (input or output), and its logic (for output ports only). Each port activates while the repeater is operating in the "Remote" mode. See Tables on the next page for detail regarding the input and output signals.

| Pin | I/O Port |
|-----|----------|
| 10  | 6        |
| 13  | 7        |
| 15  | 4        |
| 16  | 3        |
| 17  | 2        |
| 18  | 1        |
| 19  | 0        |
| 21  | 5        |

## Pin 11: NSQ DET

This is an open-collector, active-low output capable of sinking about 10 mA. It indicates that the receiver squelch is open. If the squelch control is properly set, this indicates a carrier on the receiver channel.

## Pin 12: EXT PTT

This input is internally pulled up to 5 VDC. When pulled low by an external device, it keys the repeater transmitter while the repeater is operating in the "Remote" mode. Avoid voltage in excess of 5 V on this pin, or internal damage to the microprocessor on the repeater CNTL Unit may result.

## Pin 14, 20: GND

Chassis ground for all logic levels and power supply return.

## Pin 22: RXD LOW

[ANALOG OUTPUT FOR DATA COMMUNICATIONS]

(300 ~ 3,000 Hz)

This pin is an output for low speed receiving data signals (typically 1200 bps), with the data being extracted after the de-emphasis and low pass filter stages.

## Pin 23: RXD HIGH

[DIGITAL OUTPUT FOR DATA COMMUNICATIONS]

(Max.: 5 kHz)

This pin is an output for high speed receiving data signals (typically 9600 bps), with the data being extracted immediately after the discriminator (prior to any de-emphasis).

## Pin 24: TXD LOW

[ANALOG INPUT FOR DATA COMMUNICATIONS]

(300 ~ 3,000 Hz)

This pin is intended to be used as a low speed data signal input to the repeater (typically 1200 bps). This digital data signal is injected before the transmitter pre-emphasis and limiting stages, so excess signal input levels are clipped.

## Pin 25: TXD HIGH

[DIGITAL INPUT FOR THE DATA COMMUNICATIONS]

(0 ~ 5 kHz)

This pin is intended to be used as a high speed digital data signal input to the repeater (typically 9600 bps). This digital data signal is injected after the transmitter splatter filter stage.

## CHANNEL STEERING CHART

| OPERATING CHANNEL | Bin CH |   |   |   |   | OPERATING CHANNEL | Bin CH |   |   |   |   |
|-------------------|--------|---|---|---|---|-------------------|--------|---|---|---|---|
|                   | 4      | 3 | 2 | 1 | 0 |                   | 4      | 3 | 2 | 1 | 0 |
| 1                 | 1      | 1 | 1 | 1 | 1 | 17                | 0      | 1 | 1 | 1 | 1 |
| 2                 | 1      | 1 | 1 | 1 | 0 | 18                | 0      | 1 | 1 | 1 | 0 |
| 3                 | 1      | 1 | 1 | 0 | 1 | 19                | 0      | 1 | 1 | 0 | 1 |
| 4                 | 1      | 1 | 1 | 0 | 0 | 20                | 0      | 1 | 1 | 0 | 0 |
| 5                 | 1      | 1 | 0 | 1 | 1 | 21                | 0      | 1 | 0 | 1 | 1 |
| 6                 | 1      | 1 | 0 | 1 | 0 | 22                | 0      | 1 | 0 | 1 | 0 |
| 7                 | 1      | 1 | 0 | 0 | 1 | 23                | 0      | 1 | 0 | 0 | 1 |
| 8                 | 1      | 1 | 0 | 0 | 0 | 24                | 0      | 1 | 0 | 0 | 0 |
| 9                 | 1      | 0 | 1 | 1 | 1 | 25                | 0      | 0 | 1 | 1 | 1 |
| 10                | 1      | 0 | 1 | 1 | 0 | 26                | 0      | 0 | 1 | 1 | 0 |
| 11                | 1      | 0 | 1 | 0 | 1 | 27                | 0      | 0 | 1 | 0 | 1 |
| 12                | 1      | 0 | 1 | 0 | 0 | 28                | 0      | 0 | 1 | 0 | 0 |
| 13                | 1      | 0 | 0 | 1 | 1 | 29                | 0      | 0 | 0 | 1 | 1 |
| 14                | 1      | 0 | 0 | 1 | 0 | 30                | 0      | 0 | 0 | 1 | 0 |
| 15                | 1      | 0 | 0 | 0 | 1 | 31                | 0      | 0 | 0 | 0 | 1 |
| 16                | 1      | 0 | 0 | 0 | 0 | 32                | 0      | 0 | 0 | 0 | 0 |

# DSUB 25-pin Accessory Connector

## PROGRAMMABLE I/O PORT INPUT ITEMS

| Item                 | Function  |
|----------------------|---|
| Bin_CH_0             | Recall the Memory Channel (Binary LSB)                |
| Bin_CH_1             | Recall the Memory Channel (Binary)                    |
| Bin_CH_2             | Recall the Memory Channel (Binary)                    |
| Bin_CH_3             | Recall the Memory Channel (Binary)                    |
| Bin_CH_4             | Recall the Memory Channel (Binary MSB)                |
| Channel_Down         | Step to the next-lower Operating Channel              |
| Channel_Up           | Step to the next-higher Operating Channel             |
| Compander_On         | Turn the Compander Circuit "On"                       |
| Compander_Off        | Turn the Compander Circuit "Off"                      |
| Compander_Toggle     | Turn the Compander Circuit "On" or "Off" (Toggle)     |
| CTCSS/DCS_Enc_On     | Turn the CTCSS/DCS Encoder "On"                       |
| CTCSS/DCS_Enc_Off    | Turn the CTCSS/DCS Encoder "Off"                      |
| CTCSS/DCS_Enc_Toggle | Turn the CTCSS/DCS Encoder "On" or "Off" (Toggle)     |
| DCS_Enc_Toggle       | Turn the CTCSS/DCS Decoder "On"                       |
| CTCSS/DCS_Dec_On     | Turn the CTCSS/DCS Decoder "Off"                      |
| CTCSS/DCS_Dec_Off    | Turn the CTCSS/DCS Decoder "On" or "Off" (Toggle)     |
| CTCSS/DCS_Dec_Toggle | Turn the 2-Tone Decoder "On"                          |
| Two_Tone_Dec_On      | Turn the 2-Tone Decoder "Off"                         |
| Two_Tone_Dec_Off     | Turn the 2-Tone Decoder "On" or "Off" (Toggle)        |
| Two_Tone_Dec_Toggle  | Turn the CW IDer "On"                                 |
| CW_ID_On             | Turn the CW IDer "Off"                                |
| CW_ID_Off            | Transmit the CW ID                                    |
| CW_ID_Toggle         | Send the CW Message 1                                 |
| CW_ID_Single         | Send the CW Message 2                                 |
| CW_Message_1         | Send the CW Message 3                                 |
| CW_Message_2         | Send the CW Message 4                                 |
| CW_Message_3         | Send the CW Message 5                                 |
| CW_Message_4         | Send the CW Message 6                                 |
| CW_Message_5         | Send the CW Message 7                                 |
| CW_Message_6         | Send the CW Message 8                                 |
| CW_Message_7         | CW Message Recall (Binary LSB)                        |
| CW_Message_8         | CW Message Recall (Binary)                            |
| CW_Message_Bin_0     | CW Message Recall (Binary MSB)                        |
| CW_Message_Bin_1     | Send the CW Message which is recalled from I/O port   |
| CW_Message_Bin_2     | Turn the DC Power Save Feature "On"                   |
| CW_Message_Bin_Trig  | Turn the DC Power Save Feature "Off"                  |
| DC_Power_Save_On     | Turn the DC Power Save Feature "On" or "Off" (Toggle) |
| DC_Power_Save_Off    | Turn the Encryption Circuit "On"                      |
| DC_Power_Save_Toggle | Turn the Encryption Circuit "Off"                     |
| Encryption_On        | Turn the Encryption Circuit "On" or "Off" (Toggle)    |
| Encryption_Off       | Select the Encryption Code                            |
| Encryption_Toggle    | Enable the Local PTT Switch                           |
| Encryption_Code      | Disable the Local PTT Switch                          |
| Local_PTT_On         | Enable/Disable the Local PTT Switch (Toggle)          |
| Local_PTT_Off        |   |
| Local_PTT_Toggle     |   |

| Item                   | Function  |
|------------------------|---|
| Monitor_On             | Turn the Monitor Function "On"  |
| Monitor_Off            | Turn the Monitor Function "Off"   |
| Monitor_Toggle         | Turn the Monitor Function "On" or "Off" (Toggle)                                |
| Monitor_M              | Turn the Monitor Function "On" when the I/O port is "High"                      |
| Multi_Tone_Main        | Select the Tone Table to "Main"   |
| Multi_Tone_Sub         | Select the Tone Table to "Sub"  |
| Multi_Tone_Toggle      | Switch the Tone Table between "Main" and "Sub" (Toggle)                         |
| Panel_Indicator_On     | Turn the Front Panel's Illumination "On"  |
| Panel_Indicator_Off    | Turn the Front Panel's Illumination Off   |
| Panel_Indicator_Toggle | Turn the Front Panel's Illumination "On" or "Off" (Toggle)                      |
| Repeat_On              | Set the Operating Mode to "Repeat" mode   |
| Repeat_Off             | Set the Operating Mode to "Base" mode   |
| Repeat_Toggle          | Toggle the Operating Mode between the "Repeat" mode and "Base" mode             |
| Reset                  | Reset the Repeater  |
| Scan_On                | Start Scanning  |
| Scan_Off               | Stop Scanning   |
| Scan_Toggle            | Toggle the Scanner between "Start" and "Stop"                                   |
| Squelch_On             | Turn the Squelch Circuit "On (Close)"   |
| Squelch_Off            | Turn the Squelch Circuit "Off (Close)"  |
| Squelch_Toggle         | Turn the Squelch Circuit "On" or "Off" (Toggle)                                 |
| Test_Tone_On           | Generate the Test Tone Signal   |
| Test_Tone_Off          | Stop the generation of the Test Tone  |
| Test_Tone_Toggle       | Toggle the Test Tone generation "On" and "Off"                                  |
| Test_Tone_M            | Generate the Test Tone Signal when the I/O port is "High"                       |
| TOT_On                 | Turn the Time-Out Timer feature "On"  |
| TOT_Off                | Turn the Time-Out Timer feature "Off"   |
| TOT_Toggle             | Turn the Time-Out Timer feature "On" or "Off"                                   |
| Transmit_On            | Enable the transmission of the Repeater   |
| Transmit_Off           | Disable the transmission of the Repeater  |
| Transmit_Toggle        | Enable/Disable the transmission of the Repeater                                 |
| TX_Power_Mid_On        | Set the transmitter power to the "Mid" level                                    |
| TX_Power_Mid_Off       | Return the transmitter power to "Original" power level                          |
| TX_Power_Mid_Toggle    | Toggle the transmitter power between the "Mid" level and "Original" power level |
| TX_Power_Low_On        | Set the transmitter power to the "Low" level                                    |
| TX_Power_Low_Off       | Return the transmitter power to "Original" power level                          |
| TX_Power_Low_Toggle    | Toggle the transmitter power between the "Low" level and "Original" power level |

## PROGRAMMABLE I/O PORT OUTPUT ITEMS

| Item                 | Function  |
|----------------------|---|
| Remote_Enb           | Output the signal when the Operating mode is set to "Repeat" mode.      |
| Busy                 | Output the signal when the squelch is opened.                           |
| CTCSS_Correspond     | Output the signal when the receiving CTCSS tone is matched.             |
| DCS_Correspond       | Output the signal when the receiving DCS code is matched.               |
| CTCSS/DCS_Correspond | Output the signal when the receiving CTCSS tone or DCS code is matched. |
| RX_Unlock            | Output the signal when the RX PLL Circuit is Unlocked.                  |
| TX_Unlock            | Output the signal when the TX PLL Circuit is Unlocked.                  |
| PLL_Unlock           |   |

| Item                 | Function   |
|----------------------|--|
| Power_Supply_Backup  | Output the signal when the backup power source is used.                                |
| Power_Supply_Voltage | Output the signal when the main power source is used.                                  |
| Transmit             | Output the signal when the repeater is transmitting.                                   |
| Fan_Alarm            | Output the signal when the Coolig Fan is disabled.                                     |
| Fan_Status           | Output the signal when the Coolig Fan is activated.                                    |
| High_Temperature     | Output the signal when the PA Unit is High Temperature.                                |
| TX_PD_Det            | Output the signal when the TX power is abnormally.                                     |
| Anser_Back           | Output the signal when the repeater status is changed from the Remote Control command. |

# *DSUB 25-pin Accessory Connector*

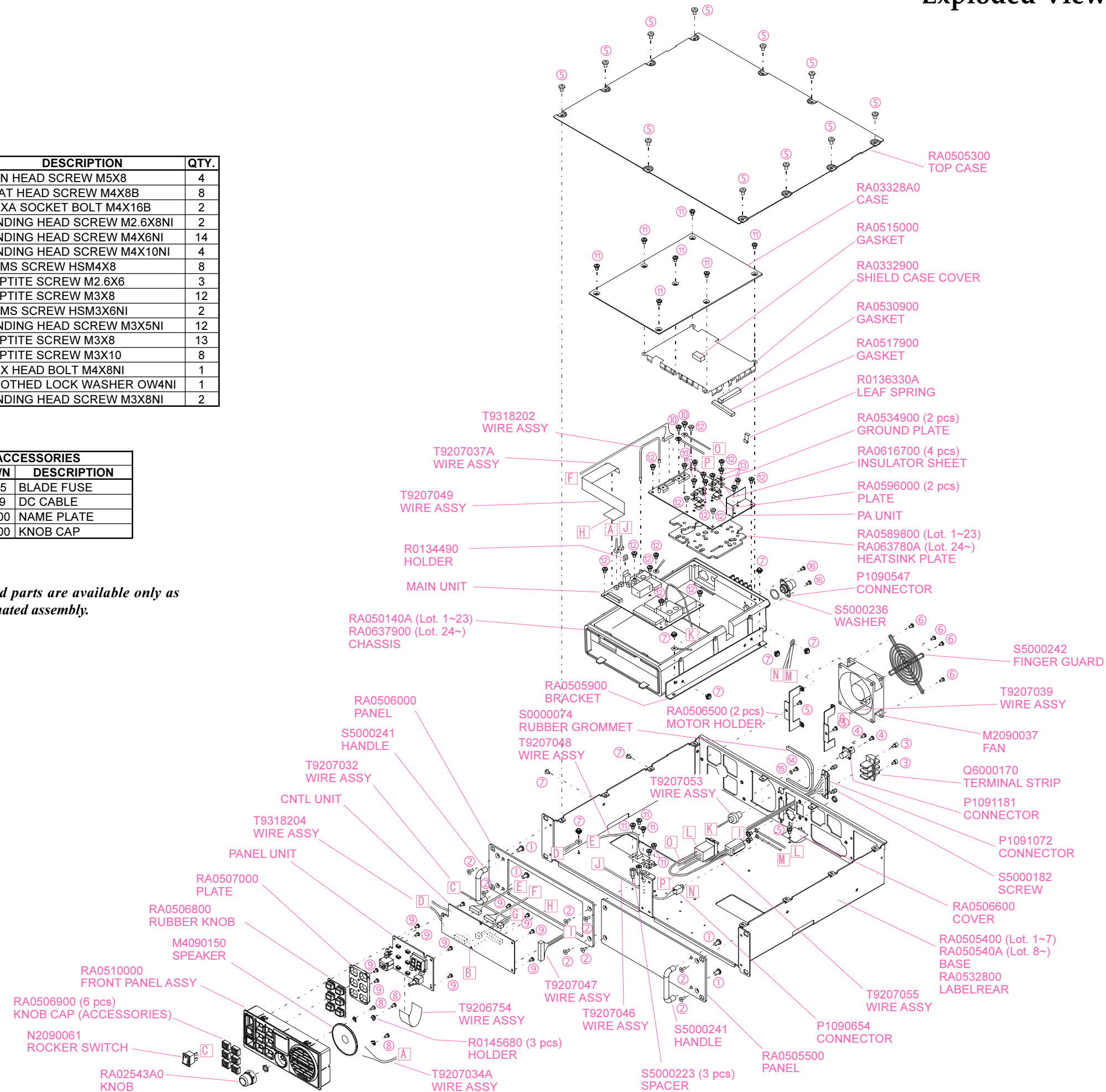
*Note*

# Exploded View & Miscellaneous Parts

| REF. | VXSTD P/N | DESCRIPTION                 | QTY. |
|------|-----------|-----------------------------|------|
| ①    | U00508001 | PAN HEAD SCREW M5X8         | 4    |
| ②    | U30408007 | FLAT HEAD SCREW M4X8B       | 8    |
| ③    | U51416007 | HEXA SOCKET BOLT M4X16B     | 2    |
| ④    | U20208002 | BINDING HEAD SCREW M2.6X8NI | 2    |
| ⑤    | U20406002 | BINDING HEAD SCREW M4X6NI   | 14   |
| ⑥    | U20410002 | BINDING HEAD SCREW M4X10NI  | 4    |
| ⑦    | U04408001 | SEMS SCREW HSM4X8           | 8    |
| ⑧    | U24206001 | TAPTITE SCREW M2.6X6        | 3    |
| ⑨    | U23308001 | TAPTITE SCREW M3X8          | 12   |
| ⑩    | U04306002 | SEMS SCREW HSM3X6NI         | 2    |
| ⑪    | U20305002 | BINDING HEAD SCREW M3X5NI   | 12   |
| ⑫    | U24308001 | TAPTITE SCREW M3X8          | 13   |
| ⑬    | U24310001 | TAPTITE SCREW M3X10         | 8    |
| ⑭    | U52408002 | HEX HEAD BOLT M4X8NI        | 1    |
| ⑮    | U72004002 | TOOTHED LOCK WASHER OW4NI   | 1    |
| ⑯    | U20308002 | BINDING HEAD SCREW M3X8NI   | 2    |

| ACCESSORIES |             |
|-------------|-------------|
| VXSTD P/N   | DESCRIPTION |
| Q0000075    | BLADE FUSE  |
| T9023499    | DC CABLE    |
| RA0508500   | NAME PLATE  |
| RA0506900   | KNOB CAP    |

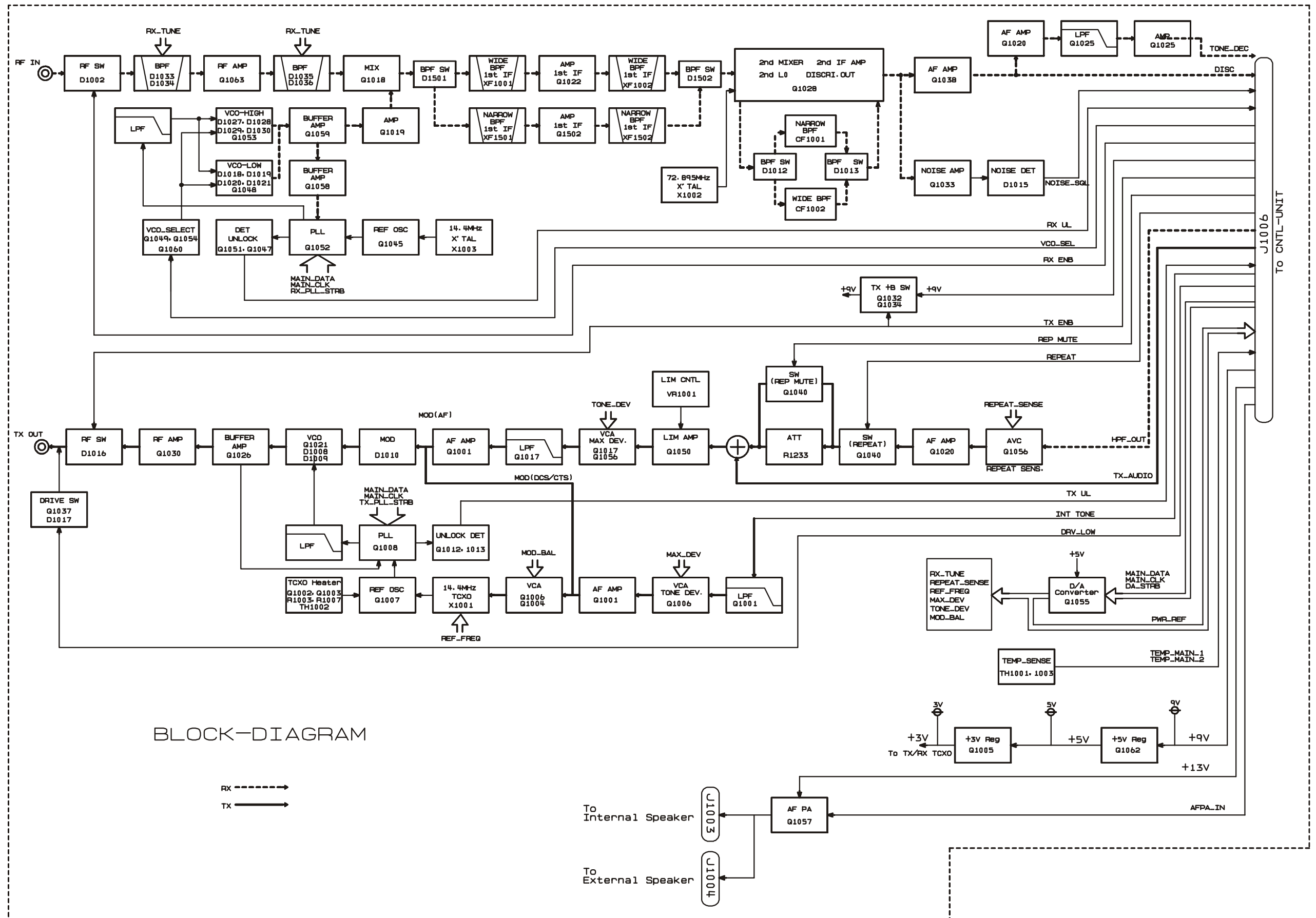
*Non-designated parts are available only as part of a designated assembly.*



# Exploded View & Miscellaneous Parts

*Note*





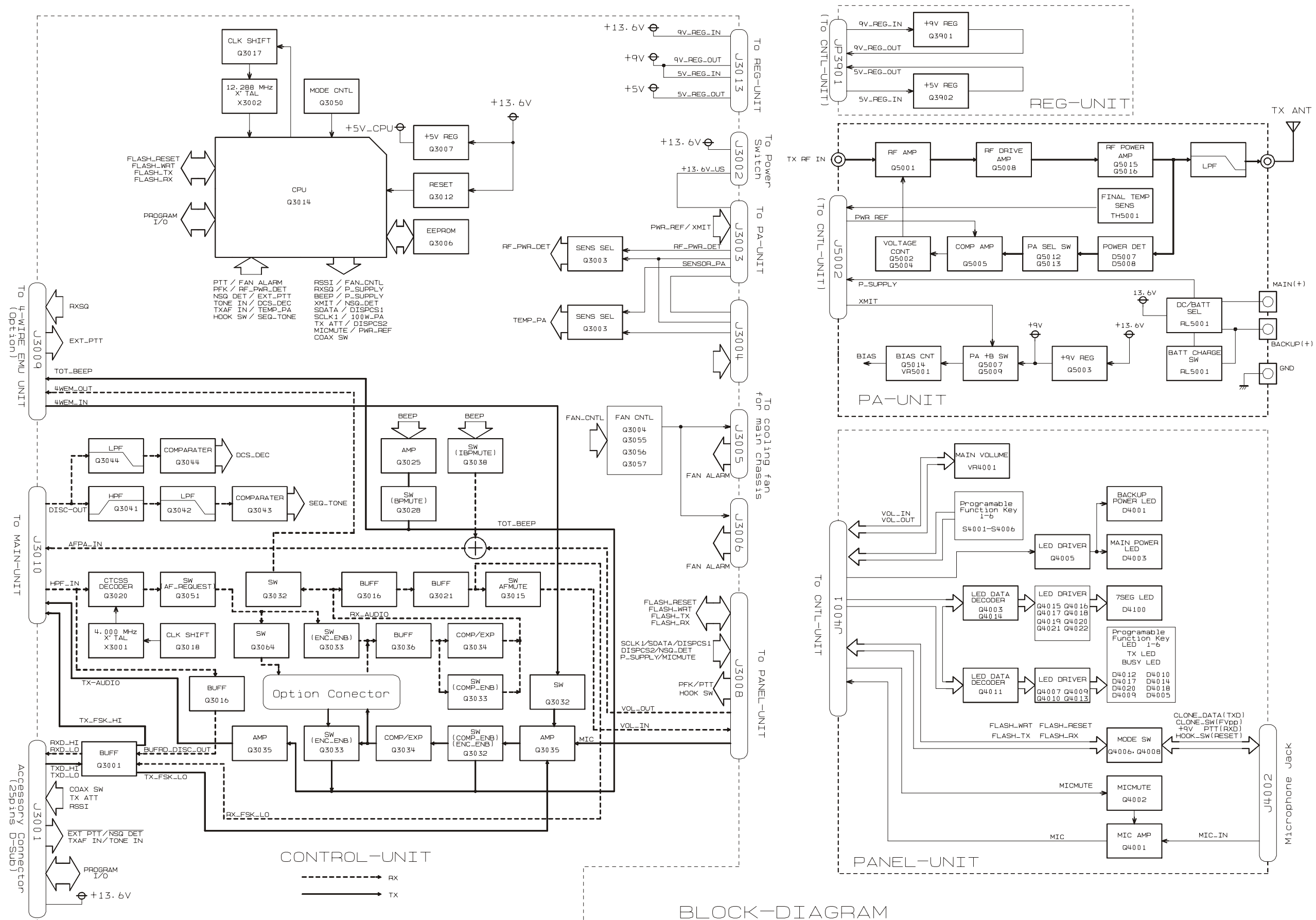
BLOCK-DIAGRAM

RX ----->  
TX ----->

To Internal Speaker J1003  
To External Speaker J1004

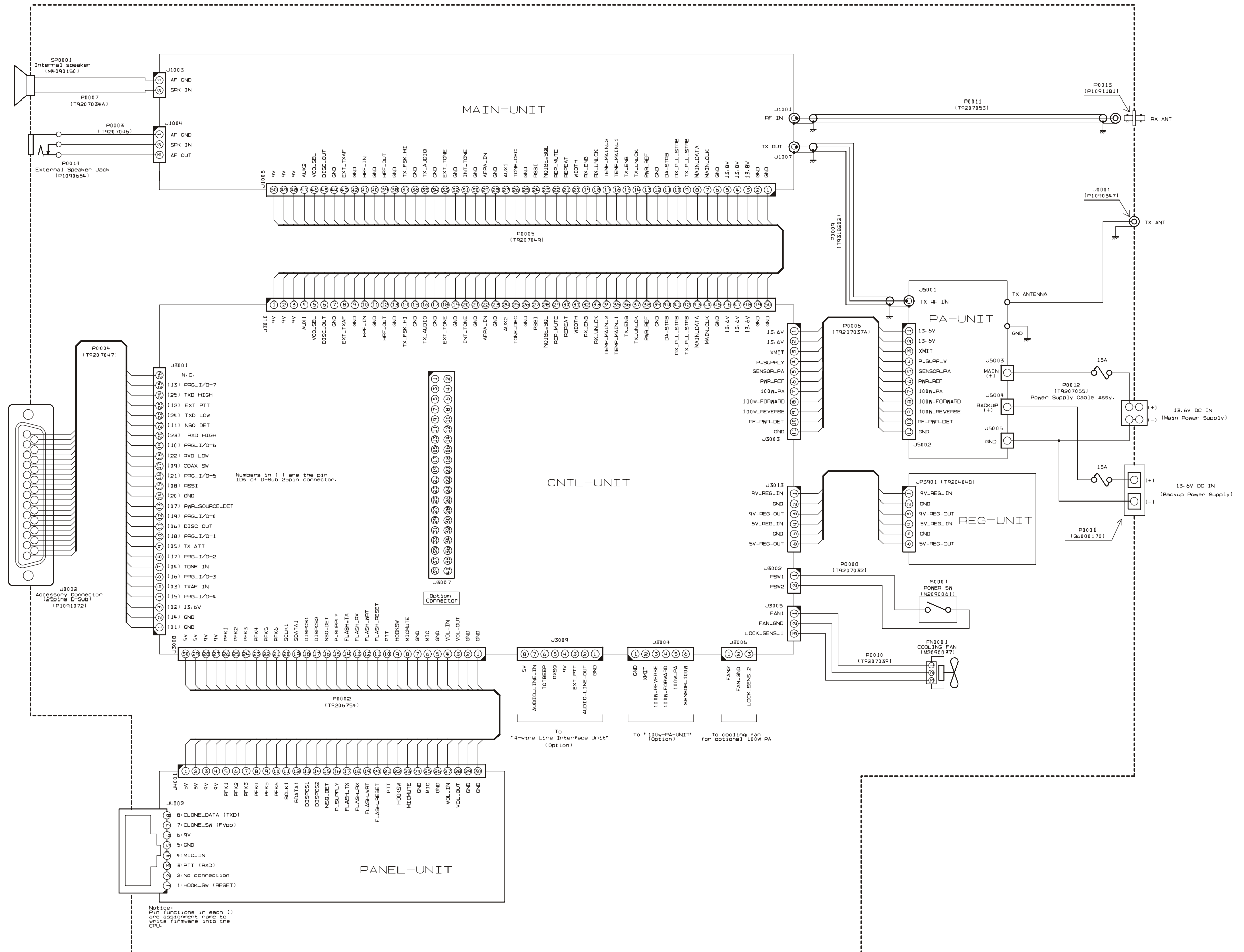
# Block Diagram

## CNTL Unit, PANEL Unit, & PA Unit

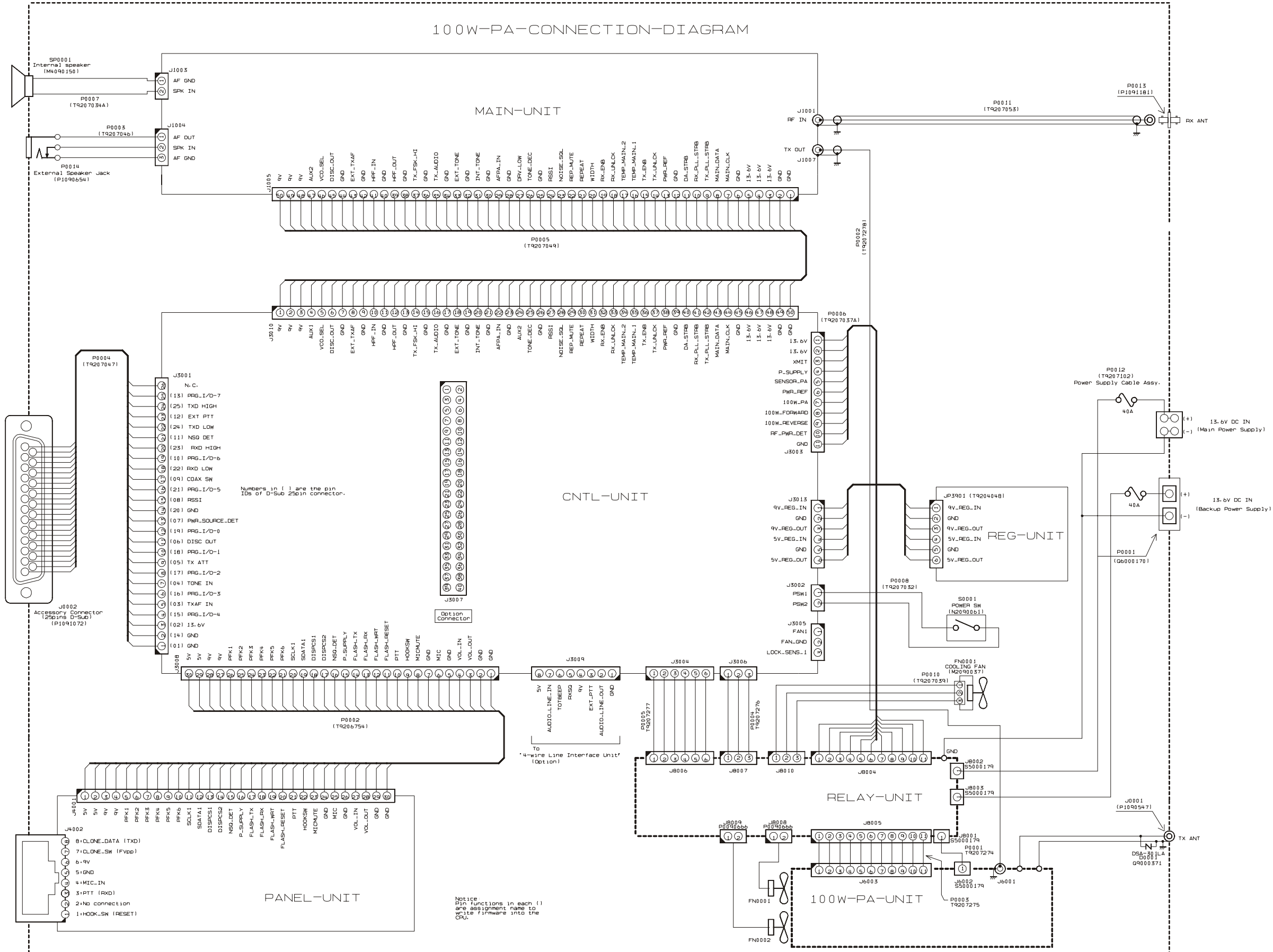


BLOCK-DIAGRAM

# Connection Diagram



# Connection Diagram (with Optional 100 W PA Unit)



## Receive Signal Path

Incoming RF from the RX antenna jack is delivered to the MAIN Unit and passes through the protection diode **D1001 (1SS302)** and **D1002 (RN739F)** and a varactor-tuned band pass filter consisting of coils L1044 and L1048, capacitors C1400, C1402, C1403, C1407, C1408, C1409 and C1410, and varactor diodes **D1033** and **D1034** (both **HVU306**).

Signals are then applied to the RF amplifier **Q1063 (2SC3356)**. The amplified RF signal is applied through a varactor-tuned band pass filter consisting of coils L1050 and L1051, capacitors C1427, C1429, C1430, C1431, C1433, C1434, C1435 and C1436, and varactor diode **D1035** and **D1036** (both **HVU306**) to the 1st mixer **Q1018 (SPM5001)** along with the first local signal from the PLL circuit.

The first local signal is generated between 221.35 and 247.35 MHz by the Dual RX VCO, which consists of FET **Q1048** (Low Band; **2SK520**) and **Q1053** (High Band; **2SK520**) and varactor diodes **D1018**, **D1019**, **D1020**, and **D1021** (Low Band; all **1SV229**) and **D1027**, **D1028**, **D1029**, and **D1030** (High Band; all **1SV229**), according to the programmed receiving frequency; the local signal then passes through buffer amplifier **Q1059 (2SC5226)** and first local amplifier **Q1019 (2SC3357)** to the first mixer **Q1018 (SPM5001)**.

The 73.35 MHz first IF signal is applied to monolithic crystal filters **XF1001/XF1002** (Wide; **TM7050A MF73P**) or **XF1501/XF1502** (Narrow; **TM7050A MF73P**) which strip away unwanted mixer products, and the IF signal is applied to the first IF amplifiers **Q1022** (Wide; **2SC5226**) or **Q1502** (Narrow; **2SC5226**). The amplified first IF signal is then delivered to the FM IF subsystem IC **Q1028 (TA31136FN)**, which contains the second mixer, second local oscillator, limiter amplifier, noise amplifier, and FM detector.

A 2nd local oscillator signal, generated by the 72.895 MHz crystal **X1002**, produces the 455 kHz second IF signal when mixed with the first IF signal within **Q1028 (TA31136FN)**. The second IF signal passes through ceramic filter **CF1001 (CFWM455G)** or **CF1002 (CFWM455F)** which strips away all but the desired signal, and then passes through the limiter amplifier within **Q1028 (TA31136FN)** to ceramic discriminator **CD1001 (CDB455C7)**, which removes any amplitude variations in the 455 kHz IF signal before detection of speech. The detected audio passes through the low pass filter, consisting of R1199 and C1244, which rejects the 455 kHz IF component.

The audio signal from the MAIN Unit is delivered to the CNTL Unit and passes through the audio amplifier **Q1020 (NJM2904V)** to the active high pass filter section of **Q3020 (FX805LG)**, which rejects the sub-audible frequency component. The filtered audio signal is delivered to electronic volume **Q1056 (M51132FP)**, which adjusts the audio sensitivity to compensate for audio level variations, then passes through audio amplifier **Q1020 (NJM2904V)**, audio switch **Q1040 (BU4066BCFV)**, attenuator consisting of R1233, and limiter amplifier **Q1050 (NJM2904V)**, to the electronic volume control **Q1056 (M51132FP)**, where the maximum deviation is set. The audio signal subsequently passes through the 3-section active low pass filter consisting of **Q1017-1/-2/-3 (NJM2902V)** and audio amplifier **Q1001 (NJM2902V)** to providing the repeater transmit audio.

A portion of the audio signal from the active high pass filter section of **Q3020 (FX805LG)** is de-emphasized by R3095 and C3080, providing a flat audio response. The filtered audio then passes through the active band pass filter **Q3021 (NJM2902V)** and audio mute gate **Q3015 (DTC323TK)** to audio power amplifier **Q1057 (TDA2003)**, providing up to 2 Watts of audio power to the 8-ohm loudspeaker.

## Sub-Audible Signaling (DECODER)

A portion of the audio signal from the audio amplifier **Q1020 (NJM2904V)** passes through the 3-section active low pass filter **Q1025 (NJM2902V)** and the low pass filtering section of **Q3020 (FX805LG)** to separate the CTCSS tones from the received audio signal. The CTCSS tones are sent to the CTCSS decoder section of **Q3020 (FX805LG)**. When a CTCSS tone is received, the CTCSS information is delivered to pin 77 of Main CPU **Q3014 (HD64F2238BFA13)** from pin 4 and 8 of **Q3020 (FX805LG)** which compares the CTCSS tone with the programmed tone.

Another portion of the audio signal amplified by **Q1020 (NJM2904V)** passes through the 3-section active low pass filter **Q3044 (NJM2902V)** to separate the DCS codes from the received audio signal. The low pass filtered signal passes through the phase detector **Q3044 (NJM2902V)** to pin 39 of Main CPU **Q3014 (HD64F2238BFA13)**. When a DCS code is received, the Main CPU **Q3014 (HD64F2238BFA13)** compares the DCS code with the programmed code.

If the received CTCSS tone or DCS code matches the programmed tone or code, pin 4 of the Main CPU **Q3014 (HD64F2238BFA13)** goes low, turning off the squelch switch **Q3015 (DTC323TK)** and passing the received audio signal to the audio power amplifier **Q1057 (TDA2003)**.

# Circuit Description

## Squelch Control

The squelch circuit consists of noise amplifier **Q1033 (DTA144EE)** and noise detector **D1015** on the MAIN Unit, and control circuitry within Main CPU **Q3014 (HD64F2238BFA13)** on the CNTL Unit.

When no carrier is received, noise at the output of the audio detector stage of **Q1028 (TA31136FN)** is amplified by **Q1033 (DTA144EE)**, and then rectified by **D1015 (MA143)** to provide a DC control voltage for the squelch switch. The resulting DC voltage is delivered to pin 23 of **J1005**.

The DC voltage from the MAIN Unit is delivered to the A-D analog input port (pin 51) of the Main CPU **Q3014 (HD64F2238BFA13)** on the CNTL Unit, which compares the squelch threshold level to that which is memorized in EEPROM **Q3006 (BR24L32F)** or set by the front panel SQL control.

## RX PLL and VCO Circuits

The receiver's PLL circuitry consists of PLL subsystem IC **Q1052 (MB15A02PFV1)** on the MAIN Unit, which contains a reference oscillator/divider, serial-to-parallel data latch, programmable divider, phase comparator and a swallow counter. Stability is obtained by a regulated 5 V DC supply via **Q1062 (L78M05T)** and temperature compensated 14.4 MHz crystal oscillator **X1003**.

The RX VCO made up two VCO circuit, one is Low-Band RX VCO, consisting of FET **Q1048 (2SK520)** and varactor diodes **D1018, D1019, D1020, and D1021 (all 1SV229)**, and another one is High-Band RX VCO, consisting of FET **Q1053 (2SK520)** and varactor diodes **D1027, D1028, D1029 and D1030 (all 1SV229)**, oscillates between 221.35 MHz and 247.35 MHz according to the programmed receiving frequency. The RX VCO output passes through buffer amplifier **Q1059 (2SC5226)** and first local amplifier **Q1019 (2SC3357)** to the first mixer **Q1018 (SPM5001)**, as described previously. A portion of the RX VCO output is applied to the prescaler/swallow counter section of PLL IC **Q1052 (MB15A02PFV1)**. There the RX VCO signal is divided by 64 or 65, according to a control signal from the Main CPU **Q3014 (HD64F2238BFA13)** on the CNTL Unit, before being applied to the programmable divider section of PLL IC **Q1052 (MB15A02PFV1)**.

The data latch section of the PLL IC **Q1052 (MB15A02PFV1)** also receives serial dividing data from the Main CPU **Q3014 (HD64F2238BFA13)**, which causes the pre-divided RX VCO signal to be further divided by 75,330 – 81,330 (or 60,264 – 65,064) in the programmable divider section of PLL IC **Q1052 (MB15A02PFV1)**, depending upon the desired receive frequency, so as to produce a 5 kHz (or 6.25 kHz) derivative of the current RX VCO frequency. Meanwhile, the reference divider section of the PLL IC **Q1052 (MB15A02PFV1)** divides the 14.4 MHz crystal reference from the reference oscillator **X1003** and **Q1045 (2SC4116GR)** by 2880 (or 2304) to produce the 5 kHz (or 6.25 kHz) loop reference.

The 5 kHz or 6.25 kHz signal from the programmable divider (derived from the RX VCO) and that derived from the crystal are applied to the phase detector section of the PLL IC **Q1052 (MB15A02PFV1)**, which produces a pulsed output with pulse duration depending on the phase difference between the input signals. This pulse train is then converted to DC, low pass filtered, then fed back to the RX VCO varactor diodes **D1018, D1019, D1020, D1021, D1027, D1028, D1029, and D1030 (all 1SV229)**.

Changes in the DC voltage applied to the varactor diodes **D1018, D1019, D1020, D1021, D1027, D1028, D1029, and D1030 (all 1SV229)** affect the reactance in the tank circuit RX VCO **Q1048** and **Q1053 (both 2SK520)**, changing the oscillating frequency according to the phase difference between the signals derived from the RX VCO and the crystal reference oscillator. The RX VCO is thus phase-locked to the reference frequency standard.

## Transmit Signal Path

The speech audio from the CNTL Unit is applied to the varactor diode **D1010 (1SV214)**, which frequency modulates the TX VCO from the unmodulated carrier at the transmit frequency. The modulated transmit signal is buffered by **Q1026 (2SC5226)**, then passes through the RF amplifier **Q1030 (2SC3357)** and RF diode switch **D1016** to the PA Unit.

The transmit signal is applied to the RF amplifier **Q5001 (2SC3357)** and **Q5008 (PD55008TR)**, then finally amplified by power amplifier **Q5015** and **Q5016 (both PD55025S)** up to 50 Watts. Harmonic and spurious radiation in the final output is suppressed by a low pass filter consisting of coils **L5007, L5008 and L5010**, plus capacitors **C5071, C5078, C5082, C5085, C5088 and C5125** on the PA Unit, before delivery to the TX antenna jack.

## TX PLL and VCO Circuits

The transmitter's PLL circuitry consists of PLL subsystem IC **Q1008 (MB15A02PFV1)** on the MAIN Unit, which contains a reference oscillator/divider, serial-to-parallel data latch, programmable divider, phase comparator and a swallow counter. Stability is obtained by a regulated 5 V DC supply via **Q1062 (L78M05T)** and temperature compensated 14.4 MHz crystal oscillator **X1001**.

The TX VCO consisting of transistor **Q1021 (2SC5107)** and varactor diodes **D1008** and **D1009** (both **HVU306**) oscillates between 148 MHz and 174 MHz according to the programmed transmit frequency. The theory of operation of the remainder of the PLL circuitry is similar to that of the RX PLL circuit; however, dividing data from the Main **Q3014 (HD64F2238BFA13)** on the CNTL Unit is such that the VCO frequency is the actual transmit frequency.

## APC (Automatic Power Control)

RF power output from the final amplifier **Q5015** and **Q5016** (both **PD55025S**) is sampled by C5056 and C5061, then rectified by **D5007** and **D5008** (both **HSM88AS**). The resulting DC voltage from the Main CPU **Q3014 (HD64F2238BFA13)** on the CNTL Unit, to produce a control voltage for the Automatic Power Controller **Q5004 (2SC4116GR)** and **Q5002 (2SB1122S)**, which regulates supply voltage to **Q5001 (2SC3357)**.

## CNTL (Control) Unit

The CNTL Unit consists of 8-bit CPU **Q3014 (HD64F2238BFA13)**, EEPROM **Q3006 (BR24L32F)**, RX and TX speech audio circuits, and various analog switches for the CPU and repeater interconnections.

Microprocessor operational code is stored in **Q3006 (BR24L32F)**, while channel data and repeater configuration information is programmed from an external PC connected to the front panel's MIC jack via a VPL-1 programming cable.

The output from the Main CPU **Q3014 (HD64F2238BFA13)** contains serial control data used for REPEATER/BASE mode control, as well as TX and RX PLL data. Crystal **X3002** oscillates at 12.288 MHz, and provides stable clock timing for the Main CPU **Q3014 (HD64F2238BFA13)**. When the repeater is powered on, the voltage at pin 62 of **Q3014 (HD64F2238BFA13)** becomes stable, and the output of voltage detector IC **Q3012 (BD4845FVE)**, which is tied to pin 59 (RST) of **Q3014 (HD64F2238BFA13)** becomes high, resetting the Main CPU.

## Base Operation (TX, Mic-Input Audio)

Microphone input is delivered past the MIC MUTE switch **Q4002 (DTC323TK)**, then passes through the audio amplifier and active high pass filter at **Q4001 (NJM2902V)** when the signal is processed in the same manner as previously described.

## *Circuit Description*

*Note*



## Introduction

The VXR-9000 has been aligned at the factory for the specified performance across the entire frequency range specified. Realignment should therefore not be necessary except in the event of a component failure. All component replacement and service should be performed only by an authorized Vertex Standard representative, or the warranty policy may be voided.

The following procedures cover the sometimes critical and tedious adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts are replaced, realignment may be required. If a sudden problem occurs during normal operation, it is likely due to component failure; realignment should not be done until after the faulty component has been replaced.

We recommend that servicing be performed only by authorized Vertex Standard service technicians who are experienced with the circuitry and fully equipped for repair and alignment. Therefore, if a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Authorized Vertex Standard service technicians realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing any faulty components. Those who do undertake any of the following alignments are cautioned to proceed at their own risk. Problems caused by unauthorized attempts at realignment are not covered by the warranty policy. Also, Vertex Standard must reserve the right to change circuits and alignment procedures in the interest of improved performance, without notifying owners. Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and the need for realignment determined to be absolutely necessary. The following test equipment (and thorough familiarity with its correct use) is necessary for complete realignment. Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy. While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards. Do not attempt to perform only a single step unless it is clearly isolated electrically from all other steps. Have all test equipment ready before beginning, and follow all of the steps in a section in the order presented.

## Required Test Equipment

- RF Signal Generator with calibrated output level at 500 MHz
- AF Signal Generator
- Frequency Counter:  $\pm 0.2$  ppm accuracy at 500 MHz
- In-line Wattmeter with 5% accuracy at 500 MHz
- 50-ohm, 50-W RF Dummy Load (50 W mode) or 50-ohm, 100-W RF Dummy Load (100 W mode)
- 13.6V Regulated DC Power Supply with capable up to 15A (50 W mode) or 30A (100 W mode).
- AC Voltmeter
- DC Voltmeter
- VHF Sampling Coupler
- Microsoft® Windows® 98 or later operating system
- Vertex Standard VPL-1 Connection Cable, FRB-4 Tuning I/F Box, and CE60 Programming Software

## Alignment Preparation & Precautions

A 50-ohm RF Dummy load and in-line wattmeter must be connected to the main antenna jack in all procedures that call for transmission, except where specified otherwise. Correct alignment is not possible with an antenna.

After completing one step, read the following step to determine whether the same test equipment will be required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

Correct alignment requires that the ambient temperature be the same as that of the transceiver and test equipment, and that this temperature be held constant between 20 °C and 30 °C (68 °F ~ 86 °F). When the transceiver is brought into the shop from hot or cold air, it should be allowed time to come to room temperature before alignment.

Whenever possible, alignments should be made with oscillator shields and circuit boards firmly affixed in place. Also, the test equipment must be thoroughly warmed up before beginning.

**Note:** Signal levels in dB referred to in this procedure are based on 0 dB $\mu$  EMF = 1.0  $\mu$ V.

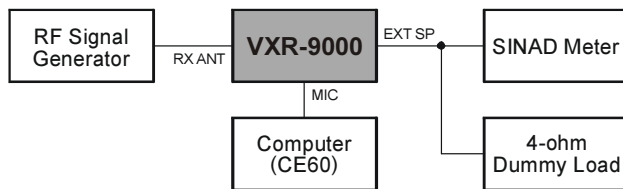
# Alignment

## The Alignment Tool Outline

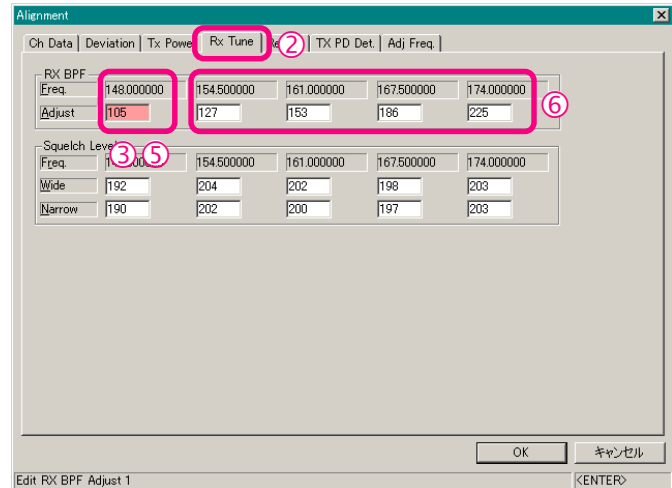
1. Install the CE60 (Programming Software) to your PC.
2. Execute the CE60 with the “/d” option (Dealer mode: type “ce60win.exe /d” [ENTER]).
3. You may adjust the following parameters from the computer.
  - RX Sensitivity
  - Squelch Sensitivity
  - TX Power
  - Maximum Deviation <Wide/Narrow>
  - Maximum Deviation <Wide/Narrow>
  - Sub-Audio (CTCSS/DCS) Deviation <Wide/Narrow>
  - Modulation Balance
  - Repeat Sensitivity
  - TX Power Down Detect
  - PLL Reference Frequency

## RX Sensitivity

- ① Setup the test equipment as shown below.

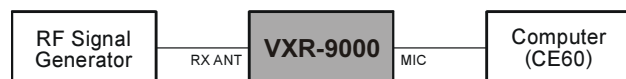


- ② Open the “Alignment” window, then click the *left* mouse button on the “Rx Tune” tab to move to the “Rx Tune” screen.
- ③ Click the *left* mouse button on the “Low Band Edge Frequency” box on the “RX BPF” field (highlighted in “pink”).
- ④ Set the RF Signal Generator output to the “Low Band Edge” Frequency, at a level of  $-6\text{ dB}\mu\text{V}$ ,  $\pm 3.0\text{ kHz}$  deviation with a 1 kHz audio tone.
- ⑤ Press the [Page Up]/[Page Down] key so that the SINAD meter reaches maximum deflection.
- ⑥ Repeat above steps at the other four points (box: frequencies).



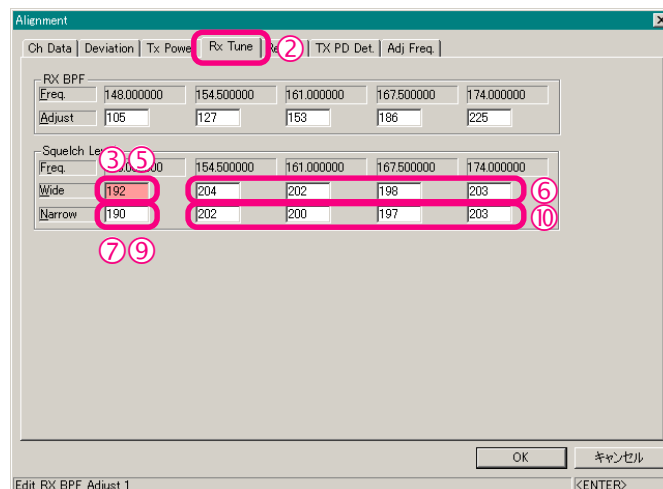
## SQL Sensitivity

- Setup the test equipment as shown below.



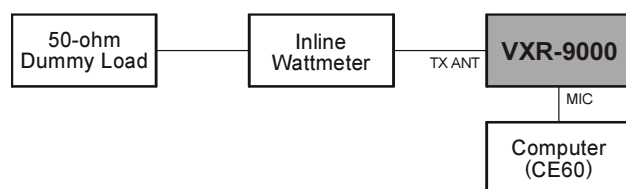
- Open the “Alignment” window, then click the *left* mouse button on the “Rx Tune” tab to move to the “Rx Tune” screen.
- Click the *left* mouse button on the “Wide” box on the “Low Band Edge Frequency” area of the “Squelch Level” field (highlighted in “pink”).
- Set the RF Signal Generator output to the “Low Band Edge” Frequency, at a level of  $-3\text{ dB}\mu\text{V}$ ,  $\pm 3.0\text{ kHz}$  deviation with a 1 kHz audio tone.
- Press the [Page Down] key until the squelch close, then press the [Page Up] key to the point where the squelch is just opened.
- Repeat above steps at the other four points (box: frequencies).
- Click the *left* mouse button on the “Narrow” box on the “Low Band Edge Frequency” area of the “Squelch Level” field (highlighted in “pink”).
- Set the RF Signal Generator output to the “Low Band Edge” Frequency, at a level of  $-3\text{ dB}\mu\text{V}$ ,  $\pm 1.5\text{ kHz}$  deviation with a 1 kHz audio tone.

- Press the [Page Down] key until the squelch close, then press the [Page Up] key to the point where the squelch is just opened.
- Repeat the above steps at the four points (box: frequencies).

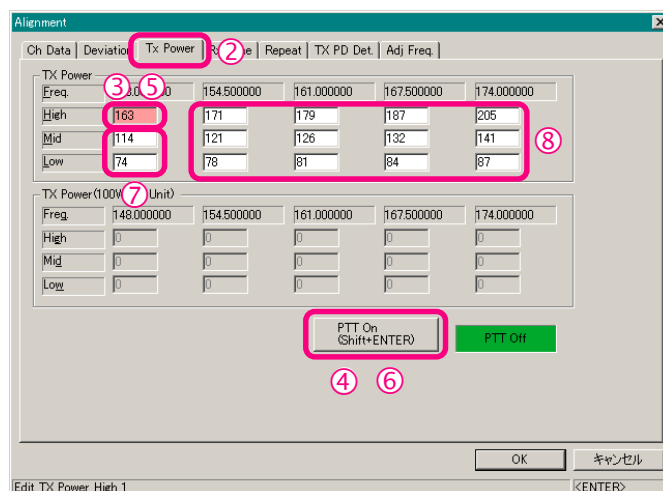


## TX Power

- Setup the test equipment as shown below.



- Open the “Alignment” window, then click the *left* mouse button on the “Tx Power” tab to move to the “Tx Power” screen.
- Click the *left* mouse button on the “High” box on the “Low Band Edge Frequency” area of the “TX Power” field (highlighted in “pink”).
- Click the *left* mouse button on the “PTT On” button to activate the transmitter (the “PTT On” label is changed to “PTT Off”).
- Press the [Page Up]/[Page Down] key so that the Power Meter reading is 50 W.
- Click the *left* mouse button on the “PTT Off” button to disable the transmitter (the “PTT Off” label is returned to “PTT On”).
- Repeat the above steps at the “Mid” (25 W) and “Low” (10 W) boxes.
- Repeat the above steps at the 12 points (box: frequencies).

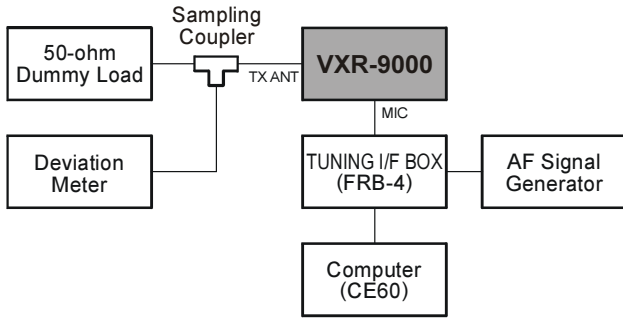


**Note:** When the optional 100 PA Unit is installed, perform this adjustment parameter in the “TX Power (100 W Unit)” field. In this case, adjust the “High” power to “100 W,” “Mid” power to “50 W,” and “Low” power to “25 W.”

# Alignment

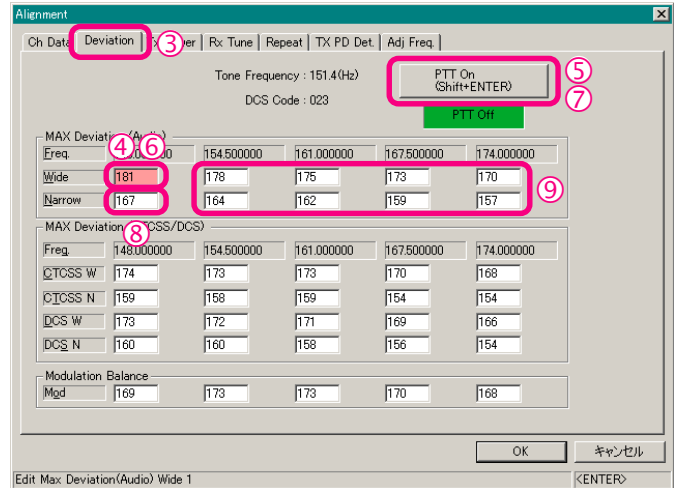
## Maximum Deviation

- Setup the test equipment as shown below.



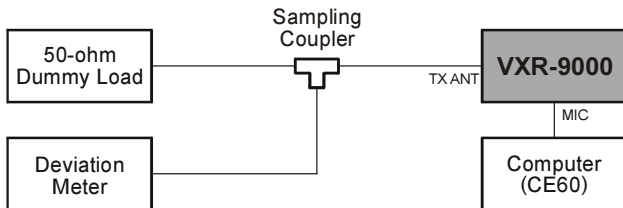
- Set the AF Signal Generator output to 35 mVrms at 1 kHz.
- Open the "Alignment" window, then click the *left* mouse button on the "Deviation" tab to move to the "Deviation" screen.
- Click the *left* mouse button on the "Wide" box on the "Low Band Edge Frequency" area of the "MAX Deviation (Audio)" field (highlighted in "pink").
- Click the *left* mouse button on the "PTT On" button to activate the transmitter (the "PTT On" label is changed to "PTT Off").
- Press the [Page Up]/[Page Down] key so that the Deviation Meter reading is 4.2 kHz  $\pm$ 0.2 kHz.

- Click the *left* mouse button on the "PTT Off" button to disable the transmitter (the "PTT Off" label is returned to "PTT On").
- Repeat the above steps at the "Narrow" box on the "Low Band Edge Frequency" area of the "MAX Deviation (Audio)" field (highlighted in "pink") so that the Deviation Meter reading is 2.1 kHz  $\pm$ 0.1 kHz.
- Repeat the above steps at the eight points (box: frequencies).



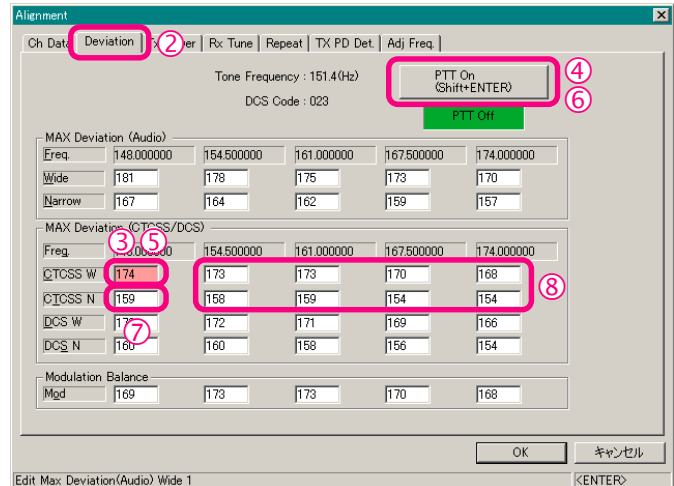
## Sub-Audio (CTCSS) Deviation

- Setup the test equipment as shown below.



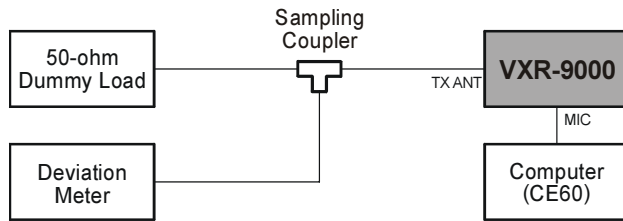
- Open the "Alignment" window, then click the *left* mouse button on the "Deviation" tab to move to the "Deviation" screen.
- Click the *left* mouse button on the "CTCSS W" box on the "Low Band Edge Frequency" area of the "MAX Deviation (CTCSS/DCS)" field (highlighted in "pink").
- Click the *left* mouse button on the "PTT On" button to activate the transmitter (the "PTT On" label is changed to "PTT Off").
- Press the [Page Up]/[Page Down] key so that the Deviation Meter reading is 0.75 kHz  $\pm$ 0.05 kHz.
- Click the *left* mouse button on the "PTT Off" button to disable the transmitter (the "PTT Off" label is returned to "PTT On").

- Repeat the above steps at the "CTCSS N" box on the "Low Band Edge Frequency" area of the "MAX Deviation (CTCSS/DCS)" field (highlighted in "pink") so that the Deviation Meter reading is 0.38 kHz  $\pm$ 0.02 kHz.
- Repeat the above steps at the eight points (box: frequencies).



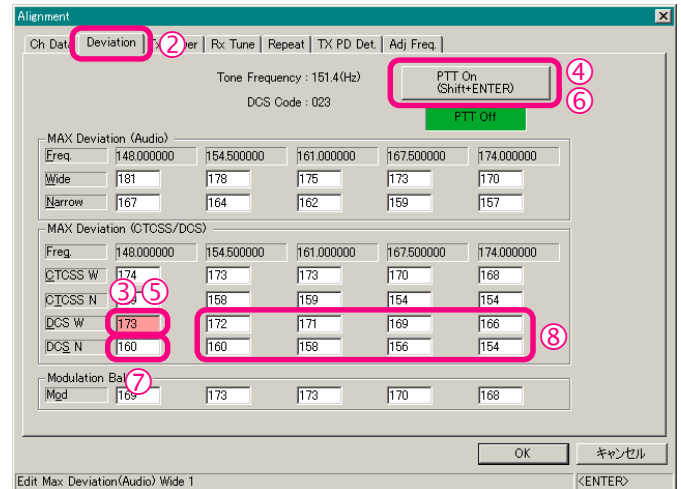
## Sub-Audio (DCS) Deviation

- Setup the test equipment as shown below.



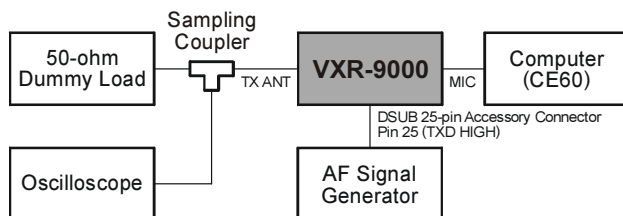
- Open the "Alignment" window, then click the *left* mouse button on the "Deviation" tab to move to the "Deviation" screen.
- Click the *left* mouse button on the "DCS W" box on the "Low Band Edge Frequency" area of the "MAX Deviation (CTCSS/DCS)" field (highlighted in "pink").
- Click the *left* mouse button on the "PTT On" button to activate the transmitter (the "PTT On" label is changed to "PTT Off").
- Press the [Page Up]/[Page Down] key so that the Deviation Meter reading is 0.75 kHz  $\pm$ 0.1 kHz.
- Click the *left* mouse button on the "PTT Off" button to disable the transmitter (the "PTT Off" label is returned to "PTT On").

- Repeat the above steps at the "DCS N" box on the "Low Band Edge Frequency" area of the "MAX Deviation (CTCSS/DCS)" field (highlighted in "pink") so that the Deviation Meter reading is 0.38 kHz  $\pm$ 0.08 kHz.
- Repeat the above steps at the eight points (box: frequencies).

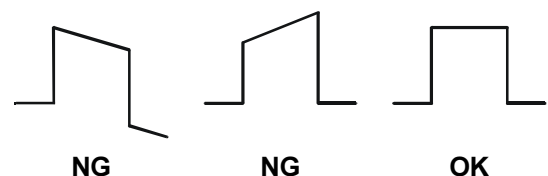
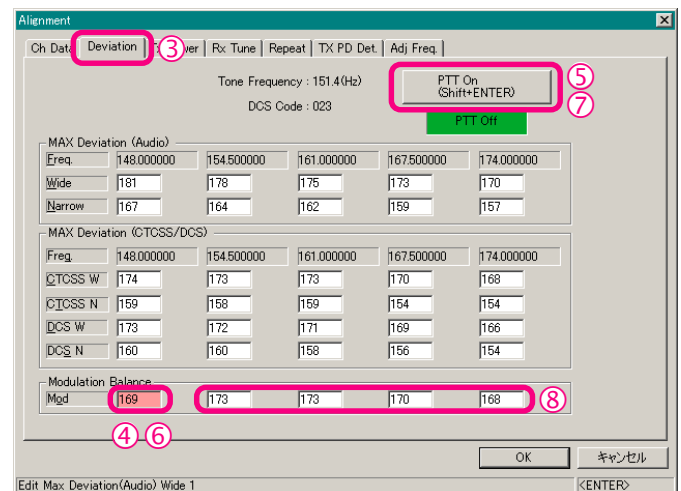


## Modulation Balance

- Setup the test equipment as shown below.



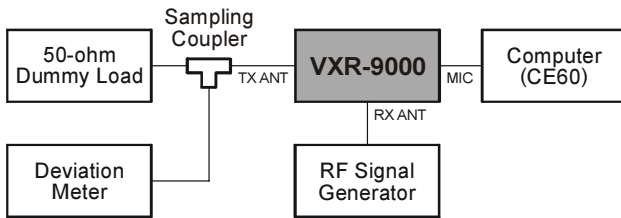
- Set the AF Signal Generator output to 500 mVp-p, 100 Hz square signal.
- Open the "Alignment" window, then click the *left* mouse button on the "Deviation" tab to move to the "Deviation" screen.
- Click the *left* mouse button on the "Mod" box on the "Low Band Edge Frequency" area of the "Modulation Balance" field (highlighted in "pink").
- Click the *left* mouse button on the "PTT On" button to activate the transmitter (the "PTT On" label is changed to "PTT Off").
- Press the [Page Up]/[Page Down] key so that the Oscilloscope shown 100 Hz square wave is obtained. See illustrations at the right.
- Click the *left* mouse button on the "PTT Off" button to disable the transmitter (the "PTT Off" label is returned to "PTT On").
- Repeat the above steps at the four points (box: frequencies).



# Alignment

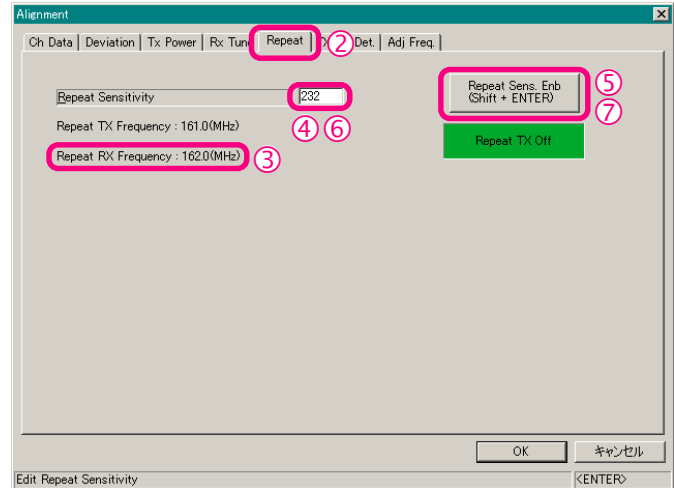
## Repeat Sensitivity

- Setup the test equipment as shown below.



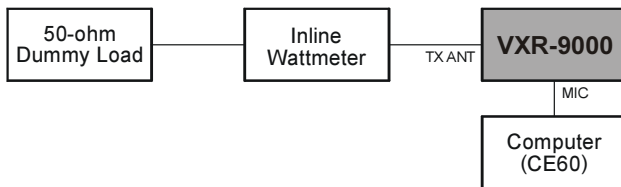
- Open the "Alignment" window, then click the *left* mouse button on the "Repeat" tab to move to the "Repeat" screen.
- Set the RF Signal Generator output to the "Repeat RX Frequency," at a level of +40 dBμV, ±3.0 kHz deviation with a 1 kHz audio tone.
- Click the *left* mouse button on the "Repeat Sensitivity" box.
- Click the *left* mouse button on the "Repeat Sens. Enb" button to activate the transmitter (the "Repeat Sens. Enb" label is changed to "Repeat TX Off").

- Press the [Page Up]/[Page Down] key so that the Deviation Meter reading is 3.0 kHz ±0.2 kHz.
- Click the *left* mouse button on the "Repeat TX Off" button to disable the transmitter (the "Repeat TX Off" label is returned to "Repeat Sens. Enb").



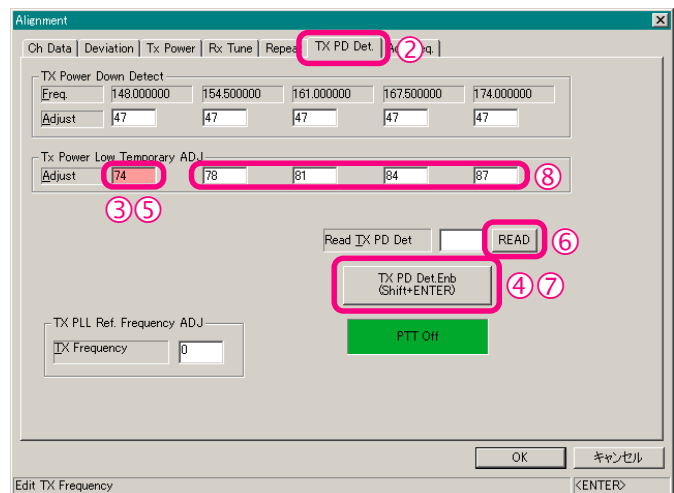
## TX Power Down Detect

- Setup the test equipment as shown below.



- Open the "Alignment" window, then click the *left* mouse button on the "TX PD Det." tab to move to the "TX PD Det." screen.
- Click the *left* mouse button on the "Adjust" box on the "Low Band Edge Frequency" area of the "Tx Power Low Temporary ADJ" field (highlighted in "pink").
- Click the *left* mouse button on the "TX PD Det. Enb" button to activate the transmitter (the "TX PD Det. Enb" label is changed to "PTT Off").
- Press the [Page Up]/[Page Down] key so that the Power Meter reading is 5 W.
- Click the *left* mouse button on the "READ" button to save the "TX Power Down Detect" data.

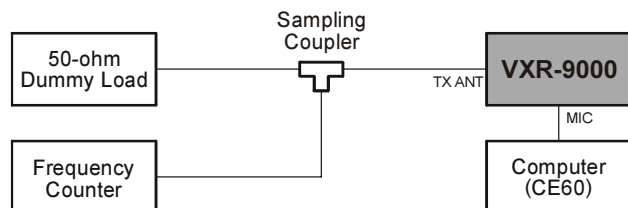
- Click the *left* mouse button on the "PTT Off" button to disable the transmitter (the "PTT Off" label is returned to "TX PD Det. Enb").
- Repeat the above steps at the four points (box: frequencies).



## PLL Reference Frequency

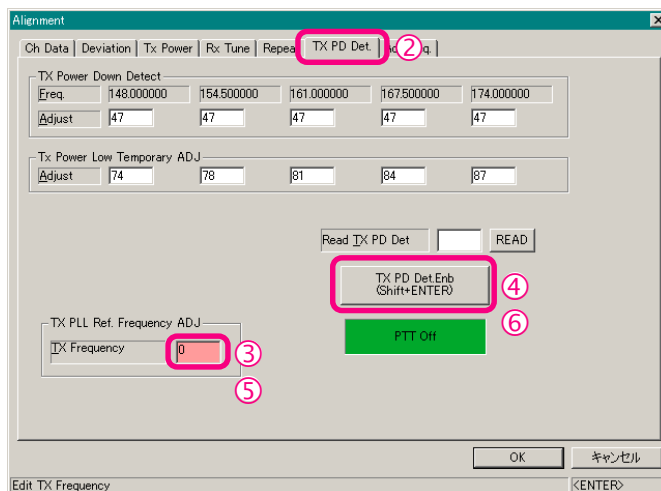
**Important Note:** (1) Do not this adjustment unless you have a high-performance frequency counter. (2) This adjustment needs to add a “Chip Resistor” on to the Main Unit. For further details contact to Vertex Standard.

① Setup the test equipment as shown below.



- ② Open the “Alignment” window, then click the *left* mouse button on the “TX PD Det.” tab to move to the “TX PD Det.” screen.
- ③ Click the *left* mouse button on the “TX Frequency” box (highlighted in “pink”).
- ④ Click the *left* mouse button on the “TX PD Det. Enb” button to activate the transmitter (the “TX PD Det. Enb” label is changed to “PTT Off”).

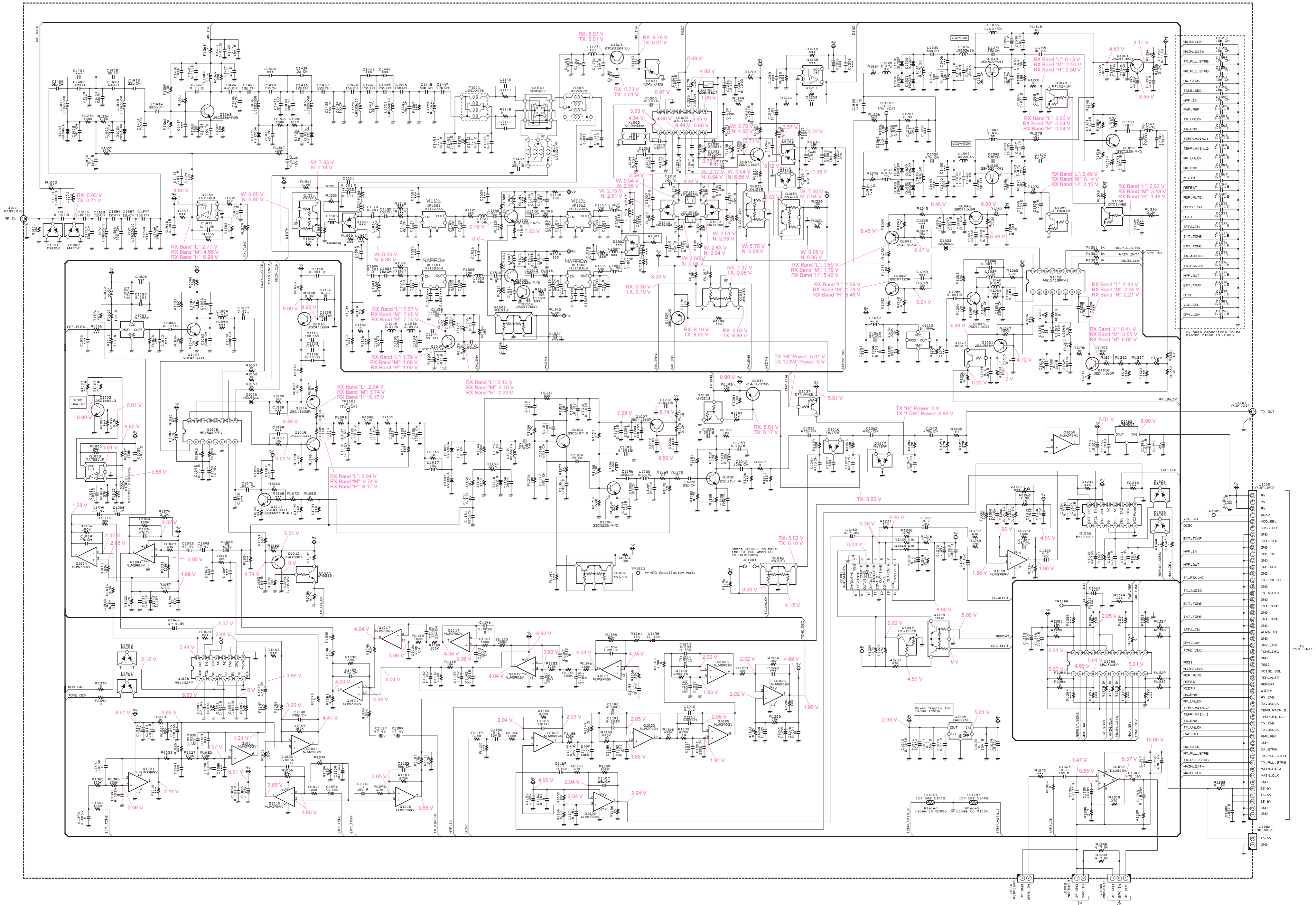
- ⑤ Press the [Page Up]/[Page Down] key so that the Frequency Counter reading is “Low Band Edge Frequency”  $\pm 100$  Hz.
- ⑥ Click the *left* mouse button on the “PTT Off” button to disable the transmitter (the “PTT Off” label is returned to “TX PD Det. Enb”).



# *Alignment*

*Note:*



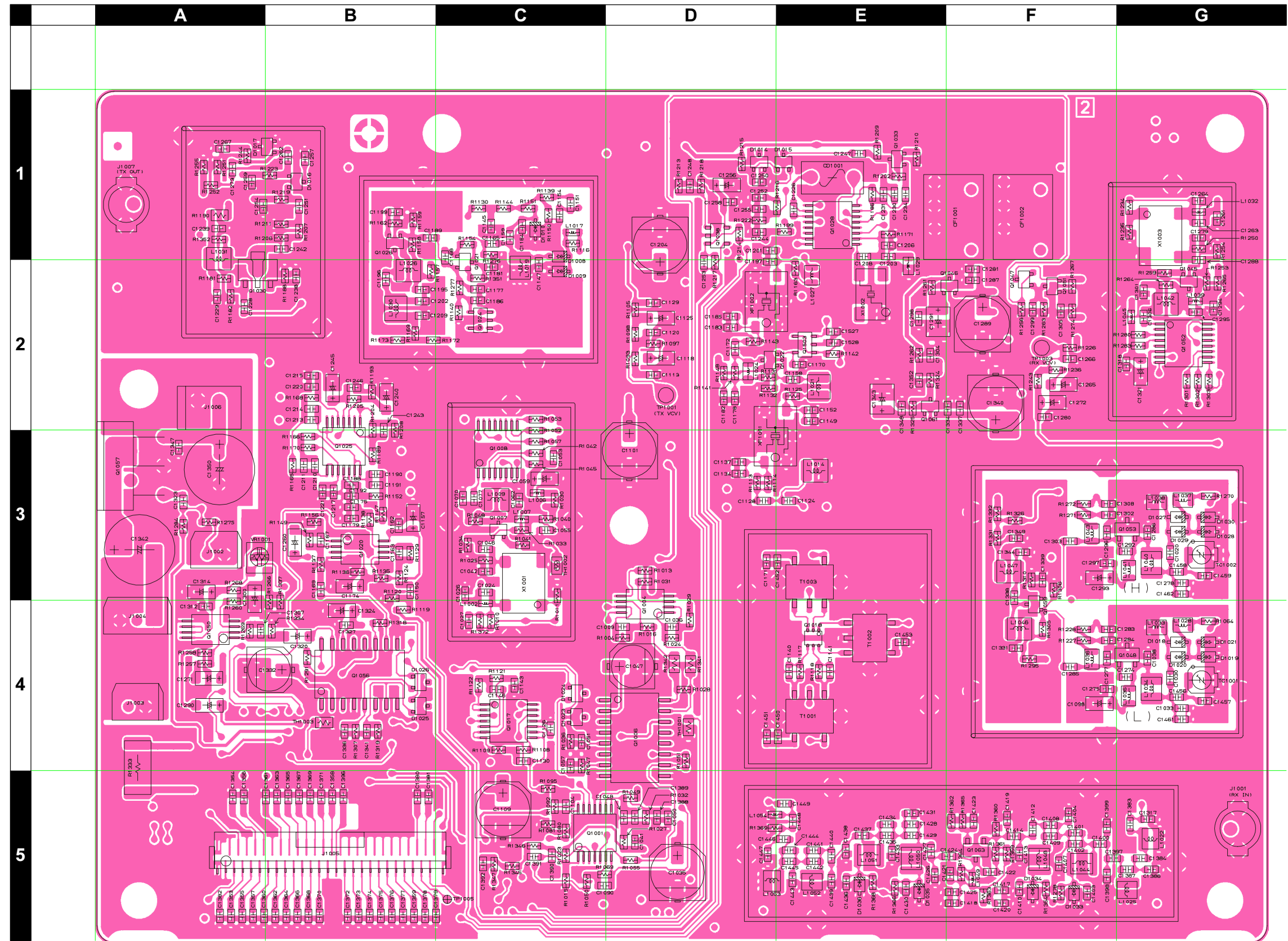
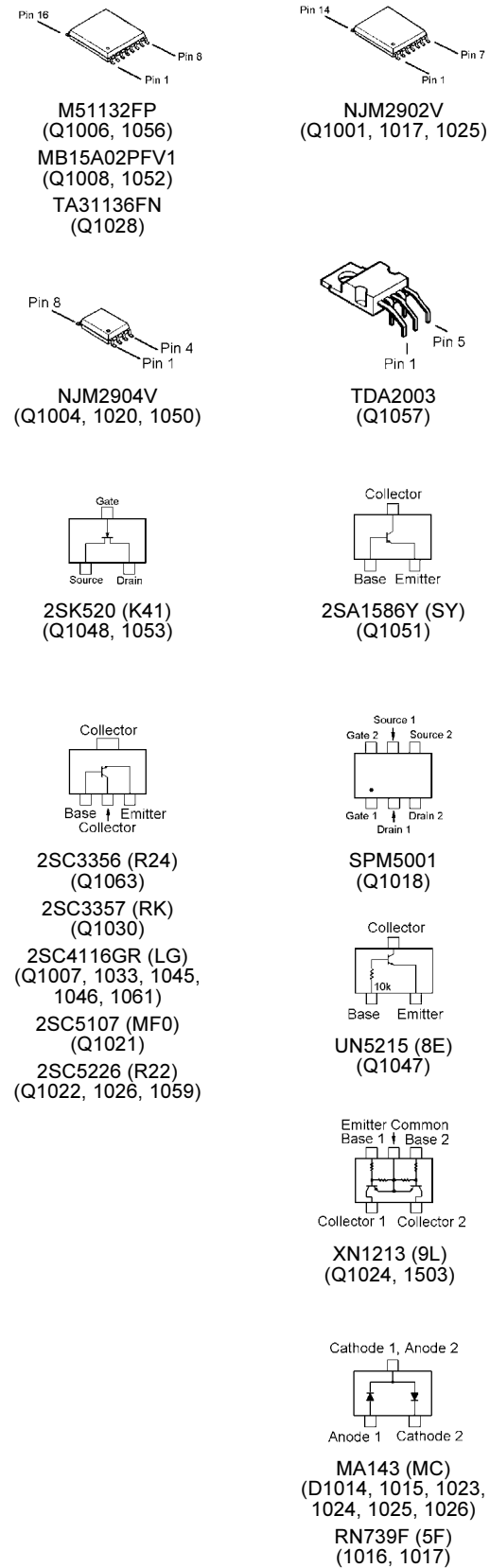


Notice: The components colored in violet mean the devices which had been changed their value or replaced the other devices after the previous reedition.  
to external speaker back on back panel



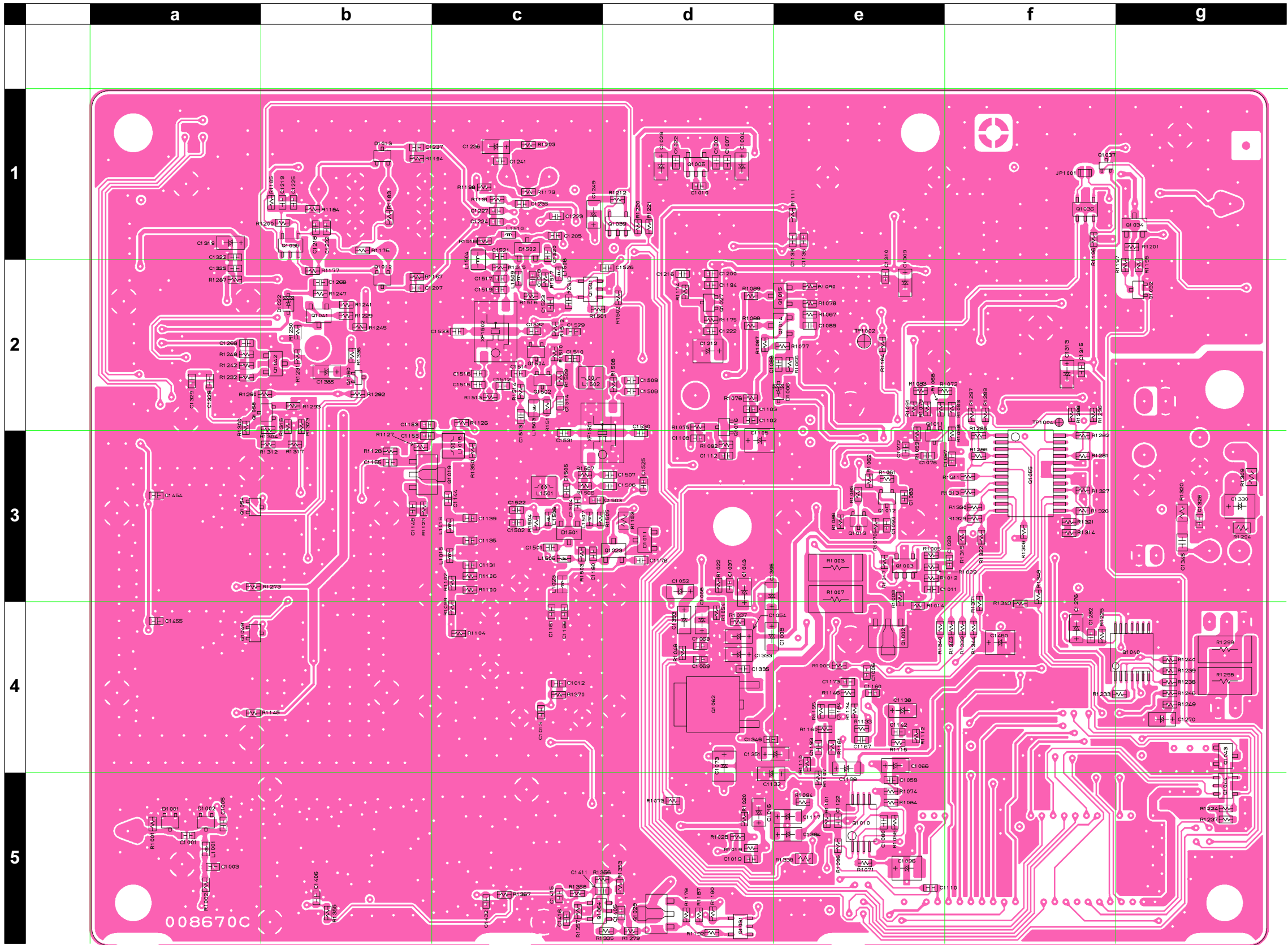
# MAIN Unit

## Parts Layout (Side A)



# MAIN Unit

## Parts Layout (Side B)



- |  |   |   |
|--|---|---|
| <br><b>L78M05T (Q1062)</b>             | <br><b>M62364FP (Q1055)</b>                               | <br><b>BU4066BCFV (Q1040)</b>                             |
| <br><b>NJM2904V (Q1010)</b>            | <br><b>2SA1162GR (SG) (Q1014, 1041)</b>                   | <br><b>2SB1122S (BE) (Q1029)</b>                          |
| <br><b>2SC3357 (RK) (Q1019)</b>        | <br><b>2SC2712GR (LG) (Q1015, 1042)</b>                   | <br><b>DTA144EE (16) (Q1037)</b>                          |
| <br><b>2SD1664 (DA) (Q1002)</b>        | <br><b>2SC2812 (LG) (Q1023)</b>                           | <br><b>2SC4116GR (LG) (Q1011, 1016, 1027, 1058, 1504)</b> |
| <br><b>2SC5226 (R22) (Q1502)</b>       | <br><b>2SC4116GR (LG) (Q1011, 1016, 1027, 1058, 1504)</b> | <br><b>2SC5226 (R22) (Q1502)</b>                          |
| <br><b>DTC144EE (26) (Q1060)</b>       | <br><b>FMG2 (G2) (Q1044)</b>                              | <br><b>RT1N241M (N2) (Q1049, 1054)</b>                    |
| <br><b>DTC144EK (26) (Q1043)</b>       | <br><b>TAR5S30 (Q1005)</b>                                | <br><b>UN5213 (8C) (Q1032)</b>                            |
| <br><b>TA75S01F (SA) (Q1003, 1064)</b> | <br><b>UN5215 (8E) (Q1013)</b>                            | <br><b>RN739F (5F) (1002)</b>                             |
| <br><b>HXM5.6NB2 (562) (D1011)</b>     | <br><b>1SS302 (C3) (D1001)</b>                            | <br><b>1SS321 (F9) (D1501, 1502)</b>                      |
| <br><b>MA142WK (MU) (D1012, 1013)</b>  | <br><b>XN1213 (9L) (Q1031, 1035, 1036, 1039, 1501)</b>    | <br><b>1SS321 (F9) (D1501, 1502)</b>                      |

# MAIN Unit

## Parts List

| REF                   | DESCRIPTION     | VALUE    | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.      | LOT | SIDE | LAY ADR |
|-----------------------|-----------------|----------|------|------|--------------------|-----------|------------|-----|------|---------|
| PCB with Components   |                 |          |      |      |                    | CB2122002 | VTX VER. C |     |      |         |
|                       |                 |          |      |      |                    | CB2122003 | EXP VER. C |     |      |         |
|                       |                 |          |      |      |                    | CB2122005 | EXP VER. C |     |      |         |
| Printed Circuit Board |                 |          |      |      | AC044N000          | FR008670C |            | 1-  |      |         |
| C 1001                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | a5      |
| C 1002                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | d1      |
| C 1003                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | a5      |
| C 1004                | CHIP TA.CAP.    | 10uF     | 10V  |      | TEMSVA1A106M-8R    | K78100028 |            | 1-  | B    | d1      |
| C 1005                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | a5      |
| C 1007                | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |            | 1-  | B    | d1      |
| C 1008                | CHIP TA.CAP.    | 47uF     | 4V   |      | SK7-0G476M-RA      | K78060048 |            | 1-  | B    | d4      |
| C 1009                | CHIP CAP.       | 47pF     | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |            | 1-  | A    | D4      |
| C 1010                | CHIP CAP.       | 0.01uF   | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | B    | d1      |
| C 1011                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | e3      |
| C 1012                | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |            | 1-  | B    | c4      |
| C 1013                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | c4      |
| C 1016                | CHIP TA.CAP.    | 1uF      | 25V  |      | TEMSVA1E105M-8R    | K78140013 |            | 1-  | B    | d5      |
| C 1019                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | d5      |
| C 1020                | CHIP CAP.       | 47pF     | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |            | 1-  | A    | G3      |
| C 1022                | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |            | 1-  | B    | d1      |
| C 1024                | CHIP CAP.       | 27pF     | 50V  | CH   | GRM1882C1H270JA01D | K22174221 |            | 1-  | A    | C3      |
| C 1027                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | C4      |
| C 1028                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | f3      |
| C 1029                | CHIP TA.CAP.    | 10uF     | 10V  |      | TEMSVA1A106M-8R    | K78100028 |            | 1-  | B    | d1      |
| C 1030                | CHIP CAP.       | 56pF     | 50V  | CH   | GRM1882C1H560JA01D | K22174229 |            | 1-4 | A    | G4      |
| C 1030                | CHIP CAP.       | 56pF     | 50V  | CH   | GRM1882C1H560JA01D | K22174229 | EXP VER. C | 5-9 | A    | G4      |
| C 1030                | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1882C1H101JA01D | K22174235 | EXP VER. C | 10- | A    | G4      |
| C 1030                | CHIP CAP.       | 56pF     | 50V  | CH   | GRM1882C1H560JA01D | K22174229 | VER. A     | 24- | A    | G4      |
| C 1030                | CHIP CAP.       | 56pF     | 50V  | CH   | GRM1882C1H560JA01D | K22174229 | VTX VER. C | 5-9 | A    | G4      |
| C 1030                | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1882C1H101JA01D | K22174235 | VTX VER. C | 10- | A    | G4      |
| C 1033                | CHIP CAP.       | 12pF     | 50V  | CH   | GRM1882C1H120JA01D | K22174213 |            | 1-  | A    | G4      |
| C 1033                | CHIP CAP.       | 10pF     | 50V  | CH   | GRM1882C1H100RZ01D | K22174248 |            | 10- | A    | G4      |
| C 1035                | AL.ELECTRO.CAP. | 100uF    | 16V  |      | ECEV1CA101WP       | K48120012 |            | 1-  | A    | D5      |
| C 1036                | CHIP CAP.       | 47pF     | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |            | 1-  | A    | D4      |
| C 1037                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | d3      |
| C 1038                | CHIP CAP.       | 18pF     | 50V  | CH   | GRM1882C1H180JA01D | K22174217 |            | 1-  | A    | G4      |
| C 1043                | CHIP TA.CAP.    | 10uF     | 10V  |      | TEMSVA1A106M-8R    | K78100028 |            | 1-  | B    | d3      |
| C 1046                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | C3      |
| C 1047                | AL.ELECTRO.CAP. | 22uF     | 16V  |      | ECEV1CA220SR       | K48120002 |            | 1-  | A    | D4      |
| C 1048                | CHIP CAP.       | 0.022uF  | 25V  | B    | GRM39B223K25PT     | K22144807 |            | 1-  | A    | D5      |
| C 1050                | CHIP CAP.       | 0.0015uF | 50V  | B    | GRM188B11H152KA01D | K22174827 |            | 1-  | A    | D5      |
| C 1051                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | C4      |
| C 1052                | CHIP TA.CAP.    | 47uF     | 4V   |      | SK7-0G476M-RA      | K78060048 |            | 1-  | B    | d3      |
| C 1053                | CHIP CAP.       | 0.01uF   | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | C3      |
| C 1054                | CHIP TA.CAP.    | 10uF     | 10V  |      | TEMSVA1A106M-8R    | K78100028 |            | 1-  | B    | d4      |
| C 1055                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | C3      |
| C 1057                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | C4      |
| C 1058                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | e5      |
| C 1059                | CHIP TA.CAP.    | 10uF     | 10V  |      | TEMSVA1A106M-8R    | K78100028 |            | 1-  | A    | C3      |
| C 1062                | CHIP CAP.       | 220pF    | 50V  | CH   | GRM1882C1H221JA01D | K22174243 |            | 1-  | A    | C3      |
| C 1066                | CHIP TA.CAP.    | 1uF      | 25V  |      | TEMSVA1E105M-8R    | K78140013 |            | 1-  | B    | e4      |
| C 1068                | CHIP TA.CAP.    | 22uF     | 6.3V |      | TEMSVA0J226M-8R    | K78080047 |            | 1-  | B    | d4      |
| C 1070                | CHIP CAP.       | 220pF    | 50V  | CH   | GRM1882C1H221JA01D | K22174243 |            | 1-  | A    | C3      |
| C 1073                | CHIP TA.CAP.    | 47uF     | 6.3V |      | TEMSVB20J476M-8R   | K78080048 |            | 1-  | B    | d4      |
| C 1076                | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |            | 1-  | B    | e3      |
| C 1077                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | C3      |
| C 1080                | CHIP CAP.       | 0.0056uF | 50V  | B    | GRM188B11H562KA01D | K22174818 |            | 1-  | B    | e5      |
| C 1083                | CHIP CAP.       | 0.01uF   | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | B    | e3      |
| C 1087                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | f3      |
| C 1090                | CHIP CAP.       | 330pF    | 50V  | CH   | GRM1882C1H331JA01D | K22174253 |            | 1-  | A    | C5      |
| C 1093                | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |            | 1-  | B    | e3      |
| C 1096                | CHIP TA.CAP.    | 33uF     | 10V  |      | TEMSVB21A336M-8R   | K78100047 |            | 1-  | B    | e5      |
| C 1098                | CHIP TA.CAP.    | 10uF     | 10V  |      | TEMSVA1A106M-8R    | K78100028 |            | 1-  | A    | F4      |
| C 1101                | AL.ELECTRO.CAP. | 100uF    | 16V  |      | ECEV1CA101WP       | K48120012 |            | 1-  | A    | D3      |
| C 1102                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | d2      |
| C 1103                | CHIP CAP.       | 0.01uF   | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | B    | d2      |
| C 1104                | CHIP CAP.       | 47pF     | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |            | 1-  | A    | C5      |
| C 1105                | CHIP TA.CAP.    | 22uF     | 16V  |      | TEMSVB21C226M-8R   | K78120028 |            | 1-  | B    | d3      |
| C 1108                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | B    | d3      |
| C 1109                | AL.ELECTRO.CAP. | 100uF    | 16V  |      | ECEV1CA101WP       | K48120012 |            | 1-  | A    | C5      |
| C 1110                | CHIP CAP.       | 1uF      | 10V  | F    | GRM188F11A105ZA01D | K22105001 |            | 1-  | B    | e5      |
| C 1112                | CHIP CAP.       | 0.01uF   | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | B    | d3      |
| C 1117                | CHIP TA.CAP.    | 47uF     | 4V   |      | SK7-0G476M-RA      | K78060048 |            | 1-  | B    | e5      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION  | VALUE    | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.  | LOT  | SIDE | LAY ADR |
|--------|--------------|----------|-----|------|--------------------|-----------|--------|------|------|---------|
| C 1118 | CHIP TA.CAP. | 1.5uF    | 16V |      | TESVA1C155M1-8R    | K78120020 |        | 1-   | A    | D2      |
| C 1120 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | A    | D2      |
| C 1122 | CHIP CAP.    | 56pF     | 50V | CH   | GRM1882C1H560JA01D | K22174229 |        | 1-   | B    | e5      |
| C 1124 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | E3      |
| C 1125 | CHIP TA.CAP. | 0.1uF    | 35V |      | TESVA1V104M1-8R    | K78160025 |        | 1-   | A    | D2      |
| C 1126 | CHIP CAP.    | 270pF    | 50V | CH   | GRM1882C1H271JA01D | K22174251 |        | 1-   | A    | C4      |
| C 1128 | CHIP CAP.    | 15pF     | 50V | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-   | A    | D3      |
| C 1130 | CHIP CAP.    | 680pF    | 25V | CH   | GRM39CH681J25PT    | K22144203 |        | 1-   | A    | C4      |
| C 1131 | CHIP CAP.    | 7pF      | 50V | CH   | GRM1882C1H7R0CZ01D | K22174245 |        | 1-   | B    | c3      |
| C 1132 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |        | 1-   | B    | d4      |
| C 1134 | CHIP CAP.    | 8pF      | 50V | CH   | GRM1882C1H8R0DZ01D | K22174209 |        | 1-   | A    | D3      |
| C 1135 | CHIP CAP.    | 22pF     | 50V | CH   | GRM1882C1H220JA01D | K22174219 |        | 1-   | B    | c3      |
| C 1136 | CHIP CAP.    | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-   | B    | e1      |
| C 1138 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |        | 1-   | B    | e4      |
| C 1139 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |        | 1-   | B    | c3      |
| C 1142 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | e4      |
| C 1143 | CHIP CAP.    | 120pF    | 50V | CH   | GRM1882C1H121JA01D | K22174237 |        | 1-   | A    | C4      |
| C 1144 | CHIP CAP.    | 5pF      | 50V | CH   | GRM1882C1H5R0CZ01D | K22174206 |        | 1-   | B    | c3      |
| C 1145 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | C1      |
| C 1146 | CHIP CAP.    | 0.0022uF | 50V | B    | GRM188B11H222KA01D | K22174822 |        | 1-   | A    | C4      |
| C 1147 | CHIP CAP.    | 1pF      | 50V | CK   | GRM1884C1H1R0CZ01D | K22174202 |        | 1-   | A    | C2      |
| C 1148 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | b3      |
| C 1149 | CHIP CAP.    | 8pF      | 50V | CH   | GRM1882C1H8R0DZ01D | K22174209 |        | 1-   | A    | E2      |
| C 1150 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | A    | B3      |
| C 1151 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | A    | C1      |
| C 1153 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | b2      |
| C 1154 | CHIP CAP.    | 220pF    | 50V | CH   | GRM1882C1H221JA01D | K22174243 |        | 1-   | A    | C1      |
| C 1155 | CHIP CAP.    | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-   | B    | b3      |
| C 1156 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | b3      |
| C 1157 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |        | 1-   | A    | B3      |
| C 1158 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | E2      |
| C 1159 | CHIP CAP.    | 1pF      | 50V | CK   | GRM1884C1H1R0CZ01D | K22174202 |        | 1-   | A    | C1      |
| C 1160 | CHIP CAP.    | 220pF    | 50V | CH   | GRM1882C1H221JA01D | K22174243 |        | 1-   | B    | e4      |
| C 1161 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | c4      |
| C 1162 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B3      |
| C 1163 | CHIP CAP.    | 33pF     | 50V | CH   | GRM1882C1H330JA01D | K22174223 |        | 1-   | A    | B3      |
| C 1164 | CHIP CAP.    | 2pF      | 50V | CK   | GRM1884C1H2R0CZ01D | K22174203 |        | 1-   | A    | C1      |
| C 1165 | CHIP CAP.    | 27pF     | 50V | CH   | GRM1882C1H270JA01D | K22174221 |        | 1-23 | A    | C1      |
| C 1165 | CHIP CAP.    | 22pF     | 50V | CH   | GRM1882C1H220JA01D | K22174219 | VER. A | 24-  | A    | C1      |
| C 1165 | CHIP CAP.    | 27pF     | 50V | CH   | GRM1882C1H270JA01D | K22174221 | VER. C | 24-  | A    | C1      |
| C 1166 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | B    | c4      |
| C 1167 | CHIP CAP.    | 0.0012uF | 50V | B    | GRM188B11H122KA01D | K22174826 |        | 1-   | B    | e4      |
| C 1168 | CHIP CAP.    | 68pF     | 50V | CH   | GRM1882C1H680JA01D | K22174231 |        | 1-23 | A    | C1      |
| C 1168 | CHIP CAP.    | 82pF     | 50V | CH   | GRM1882C1H820JA01D | K22174233 | VER. A | 24-  | A    | C1      |
| C 1168 | CHIP CAP.    | 68pF     | 50V | CH   | GRM1882C1H680JA01D | K22174231 | VER. C | 24-  | A    | C1      |
| C 1169 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | A    | B3      |
| C 1171 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | A    | D3      |
| C 1172 | CHIP CAP.    | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-   | A    | D2      |
| C 1173 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | e4      |
| C 1174 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |        | 1-   | A    | B3      |
| C 1175 | CHIP CAP.    | 0.015uF  | 25V | B    | GRM39B153K25PT     | K22144805 |        | 1-   | A    | B3      |
| C 1176 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | d3      |
| C 1177 | CHIP CAP.    | 33pF     | 50V | CH   | GRM1882C1H330JA01D | K22174223 |        | 1-23 | A    | C2      |
| C 1177 | CHIP CAP.    | 39pF     | 50V | CH   | GRM1882C1H390JA01D | K22174225 | VER. A | 24-  | A    | C2      |
| C 1177 | CHIP CAP.    | 33pF     | 50V | CH   | GRM1882C1H330JA01D | K22174223 | VER. C | 24-  | A    | C2      |
| C 1178 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | D2      |
| C 1179 | CHIP CAP.    | 0.015uF  | 25V | B    | GRM39B153K25PT     | K22144805 |        | 1-   | A    | B3      |
| C 1180 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | B    | c3      |
| C 1181 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | C2      |
| C 1182 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | A    | D2      |
| C 1183 | CHIP CAP.    | 2pF      | 50V | CK   | GRM1884C1H2R0CZ01D | K22174203 |        | 1-   | A    | D2      |
| C 1184 | CHIP CAP.    | 150pF    | 50V | CH   | GRM1882C1H151JA01D | K22174239 |        | 1-   | B    | e4      |
| C 1186 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | C2      |
| C 1187 | CHIP CAP.    | 68pF     | 50V | CH   | GRM1882C1H680JA01D | K22174231 |        | 1-   | A    | B3      |
| C 1189 | CHIP CAP.    | 2pF      | 50V | CK   | GRM1884C1H2R0CZ01D | K22174203 |        | 1-   | A    | B1      |
| C 1190 | CHIP CAP.    | 0.0047uF | 50V | B    | ECJ1VB1H472K       | K22179622 |        | 1-   | A    | B3      |
| C 1191 | CHIP CAP.    | 0.0039uF | 50V | B    | GRM188B11H392KA01D | K22174830 |        | 1-   | A    | B3      |
| C 1192 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B3      |
| C 1193 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | e4      |
| C 1194 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | d2      |
| C 1195 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B2      |
| C 1196 | CHIP CAP.    | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-   | A    | B2      |
| C 1197 | CHIP CAP.    | 8pF      | 50V | CH   | GRM1882C1H8R0DZ01D | K22174209 |        | 1-   | A    | D2      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION     | VALUE    | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.  | LOT  | SIDE | LAY ADR |
|--------|-----------------|----------|-----|------|--------------------|-----------|--------|------|------|---------|
| C 1198 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |        | 1-   | B    | e4      |
| C 1199 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B1      |
| C 1200 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | B    | d2      |
| C 1202 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |        | 1-   | A    | B2      |
| C 1203 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | A    | E1      |
| C 1204 | AL.ELECTRO.CAP. | 100uF    | 16V |      | ECEV1CA101WP       | K48120012 |        | 1-   | A    | D1      |
| C 1205 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | c1      |
| C 1206 | CHIP CAP.       | 39pF     | 50V | CH   | GRM1882C1H390JA01D | K22174225 |        | 1-   | A    | E1      |
| C 1207 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | b2      |
| C 1208 | CHIP CAP.       | 33pF     | 50V | CH   | GRM1882C1H330JA01D | K22174223 |        | 1-   | A    | E1      |
| C 1209 | CHIP CAP.       | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |        | 1-   | A    | B2      |
| C 1210 | CHIP CAP.       | 0.012uF  | 50V | B    | GRM188B11H123KA01D | K22174825 |        | 1-   | A    | B3      |
| C 1211 | CHIP CAP.       | 330pF    | 50V | CH   | GRM1882C1H331JA01D | K22174253 |        | 1-   | A    | B3      |
| C 1212 | CHIP TA.CAP.    | 22uF     | 16V |      | TEMSVB21C226M-8R   | K78120028 |        | 1-   | B    | d2      |
| C 1213 | CHIP CAP.       | 0.033uF  | 16V | B    | ECJ1VB1C333K       | K22129515 |        | 1-   | A    | B2      |
| C 1214 | CHIP CAP.       | 0.0015uF | 50V | B    | GRM188B11H152KA01D | K22174827 |        | 1-   | A    | B2      |
| C 1215 | CHIP CAP.       | 56pF     | 50V | CH   | GRM1882C1H560JA01D | K22174229 |        | 1-   | A    | B2      |
| C 1216 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | d2      |
| C 1218 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | b1      |
| C 1219 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | b1      |
| C 1221 | CHIP CAP.       | 220pF    | 50V | CH   | GRM1882C1H221JA01D | K22174243 |        | 1-   | A    | B3      |
| C 1222 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | B    | d2      |
| C 1223 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | c1      |
| C 1224 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | c1      |
| C 1225 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | b1      |
| C 1226 | CHIP CAP.       | 82pF     | 50V | CH   | GRM1882C1H820JA01D | K22174233 |        | 1-   | A    | E1      |
| C 1227 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | c1      |
| C 1228 | CHIP CAP.       | 22pF     | 50V | CH   | GRM1882C1H220JA01D | K22174219 |        | 1-   | A    | A2      |
| C 1229 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | A2      |
| C 1230 | CHIP CAP.       | 180pF    | 50V | CH   | GRM1882C1H181JA01D | K22174241 |        | 1-20 | A    | E1      |
| C 1230 | CHIP CAP.       | 330pF    | 50V | CH   | GRM1882C1H331JA01D | K22174253 |        | 21-  | A    | E1      |
| C 1231 | CHIP CAP.       | 180pF    | 50V | CH   | GRM1882C1H181JA01D | K22174241 |        | 1-20 | A    | E1      |
| C 1231 | CHIP CAP.       | 330pF    | 50V | CH   | GRM1882C1H331JA01D | K22174253 |        | 21-  | A    | E1      |
| C 1232 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | b1      |
| C 1234 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | E1      |
| C 1235 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | c1      |
| C 1236 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |        | 1-   | B    | c1      |
| C 1237 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | b1      |
| C 1238 | CHIP CAP.       | 120pF    | 50V | CH   | GRM1882C1H121JA01D | K22174237 |        | 1-   | A    | B2      |
| C 1239 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | A1      |
| C 1240 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |        | 1-   | A    | B2      |
| C 1241 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | c1      |
| C 1242 | CHIP CAP.       | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-   | A    | B1      |
| C 1244 | CHIP CAP.       | 0.0047uF | 50V | B    | GRM188B11H472KA01D | K22174833 |        | 1-   | A    | D1      |
| C 1245 | CHIP TA.CAP.    | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |        | 1-   | A    | B2      |
| C 1246 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B2      |
| C 1247 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | A    | E1      |
| C 1249 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |        | 1-   | B    | c1      |
| C 1250 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | A    | D1      |
| C 1251 | CHIP CAP.       | 470pF    | 50V | CH   | GRM1882C1H471JA01D | K22174249 |        | 1-   | A    | B1      |
| C 1252 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-20 | A    | D1      |
| C 1252 | CHIP CAP.       | 0.22uF   | 10V | B    | GRM188B11A224KA01D | K22104801 |        | 21-  | A    | D1      |
| C 1254 | CHIP CAP.       | 470pF    | 50V | CH   | GRM1882C1H471JA01D | K22174249 |        | 1-   | A    | A1      |
| C 1255 | CHIP CAP.       | 0.047uF  | 16V | B    | GRM39B473K16PT     | K22124804 |        | 1-   | A    | D1      |
| C 1259 | CHIP CAP.       | 470pF    | 50V | CH   | GRM1882C1H471JA01D | K22174249 |        | 1-   | A    | A1      |
| C 1260 | CHIP TA.CAP.    | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |        | 1-   | A    | B3      |
| C 1262 | CHIP CAP.       | 470pF    | 50V | CH   | GRM1882C1H471JA01D | K22174249 |        | 1-   | A    | B1      |
| C 1263 | CHIP CAP.       | 27pF     | 50V | CH   | GRM1882C1H270JA01D | K22174221 |        | 1-   | A    | G1      |
| C 1264 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | G1      |
| C 1265 | CHIP TA.CAP.    | 1.5uF    | 16V |      | TESVA1C155M1-8R    | K78120020 |        | 1-   | A    | F2      |
| C 1266 | CHIP CAP.       | 0.033uF  | 16V | R    | GRM188R11C333KA01D | K22124801 |        | 1-   | A    | F2      |
| C 1267 | CHIP CAP.       | 470pF    | 50V | CH   | GRM1882C1H471JA01D | K22174249 |        | 1-   | A    | A1      |
| C 1270 | CHIP TA.CAP.    | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |        | 1-   | B    | g4      |
| C 1271 | CHIP TA.CAP.    | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |        | 1-   | A    | A4      |
| C 1272 | CHIP TA.CAP.    | 0.1uF    | 35V |      | TESVA1V104M1-8R    | K78160025 |        | 1-   | A    | F2      |
| C 1273 | CHIP CAP.       | 470pF    | 50V | CH   | GRM1882C1H471JA01D | K22174249 |        | 1-   | A    | A1      |
| C 1274 | CHIP CAP.       | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |        | 1-   | A    | G4      |
| C 1275 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | F4      |
| C 1276 | CHIP TA.CAP.    | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |        | 1-   | B    | f4      |
| C 1277 | CHIP CAP.       | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |        | 1-   | A    | F4      |
| C 1278 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100RZ01D | K22174248 |        | 1-23 | A    | G3      |
| C 1278 | CHIP CAP.       | 8pF      | 50V | CH   | GRM1882C1H8ROCZ01D | K22174246 | VER. A | 24-  | A    | G3      |
| C 1278 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100RZ01D | K22174248 | VER. C | 24-  | A    | G3      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION     | VALUE    | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-----------------|----------|-----|------|--------------------|-----------|-------|-----|------|---------|
| C 1281 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F2      |
| C 1282 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | f4      |
| C 1283 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F4      |
| C 1284 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F4      |
| C 1285 | CHIP CAP.       | 1pF      | 50V | CK   | GRM1884C1H1R0CZ01D | K22174202 |       | 1-  | A    | F4      |
| C 1286 | CHIP CAP.       | 15pF     | 50V | CH   | GRM1882C1H150JA01D | K22174215 |       | 1-  | A    | G3      |
| C 1287 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F2      |
| C 1288 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | G1      |
| C 1289 | AL.ELECTRO.CAP. | 100uF    | 16V |      | ECEV1CA101WP       | K48120012 |       | 1-  | A    | F2      |
| C 1290 | CHIP TA.CAP.    | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | A4      |
| C 1291 | CHIP TA.CAP.    | 22uF     | 16V |      | TEMSVB21C226M-8R   | K78120028 |       | 1-  | A    | E2      |
| C 1292 | CHIP CAP.       | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |       | 1-  | A    | G3      |
| C 1293 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | F3      |
| C 1294 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | G2      |
| C 1295 | CHIP CAP.       | 220pF    | 50V | CH   | GRM1882C1H221JA01D | K22174243 |       | 1-  | A    | G2      |
| C 1296 | CHIP CAP.       | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |       | 1-  | A    | F3      |
| C 1297 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F3      |
| C 1298 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | E2      |
| C 1299 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | F2      |
| C 1300 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | A3      |
| C 1301 | CHIP CAP.       | 220pF    | 50V | CH   | GRM1882C1H221JA01D | K22174243 |       | 1-  | A    | G2      |
| C 1302 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F3      |
| C 1303 | CHIP CAP.       | 1pF      | 50V | CK   | GRM1884C1H1R0CZ01D | K22174202 |       | 1-  | A    | F3      |
| C 1304 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | E2      |
| C 1305 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F2      |
| C 1306 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | G2      |
| C 1307 | CHIP CAP.       | 47pF     | 50V | CH   | GRM1882C1H470JA01D | K22174227 |       | 1-  | A    | A4      |
| C 1308 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F3      |
| C 1309 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | B    | e2      |
| C 1310 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e2      |
| C 1312 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | A4      |
| C 1313 | CHIP TA.CAP.    | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | B    | f2      |
| C 1314 | CHIP TA.CAP.    | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | A3      |
| C 1315 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | f2      |
| C 1317 | CHIP CAP.       | 15pF     | 50V | CH   | GRM1882C1H150JA01D | K22174215 |       | 1-  | A    | G5      |
| C 1318 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | G2      |
| C 1319 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | B    | a1      |
| C 1320 | CHIP TA.CAP.    | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | B4      |
| C 1321 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | G2      |
| C 1322 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | a1      |
| C 1323 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | A3      |
| C 1324 | CHIP TA.CAP.    | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | B4      |
| C 1325 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | a2      |
| C 1326 | CHIP CAP.       | 0.0033uF | 50V | B    | GRM188B11H332KA01D | K22174831 |       | 1-  | B    | g3      |
| C 1327 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B4      |
| C 1328 | CHIP CAP.       | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | B    | a2      |
| C 1330 | CHIP TA.CAP.    | 10uF     | 16V |      | TEMSVB21C106M-8R   | K78120025 |       | 1-  | B    | g3      |
| C 1331 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F4      |
| C 1332 | AL.ELECTRO.CAP. | 22uF     | 16V |      | ECEV1CA220SR       | K48120002 |       | 1-  | A    | B4      |
| C 1333 | CHIP TA.CAP.    | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | B    | d4      |
| C 1334 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | E2      |
| C 1335 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | d4      |
| C 1336 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B4      |
| C 1337 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F2      |
| C 1338 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F3      |
| C 1339 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F3      |
| C 1340 | AL.ELECTRO.CAP. | 100uF    | 16V |      | ECEV1CA101WP       | K48120012 |       | 1-  | A    | F2      |
| C 1341 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B4      |
| C 1342 | AL.ELECTRO.CAP. | 470uF    | 16V |      | RE3-16V471MG3#     | K40129066 |       | 1-  | A    | A3      |
| C 1343 | CHIP TA.CAP.    | 22uF     | 16V |      | TEMSVB21C226M-8R   | K78120028 |       | 1-  | A    | E2      |
| C 1344 | CHIP CAP.       | 15pF     | 50V | CH   | GRM1882C1H150JA01D | K22174215 |       | 1-  | A    | F3      |
| C 1345 | CHIP CAP.       | 0.1uF    | 25V | B    | GRM40B104M25PT     | K22140811 |       | 1-  | B    | g3      |
| C 1346 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | d4      |
| C 1347 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | A3      |
| C 1348 | CHIP CAP.       | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | E2      |
| C 1349 | CHIP CAP.       | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |       | 1-  | A    | F3      |
| C 1350 | AL.ELECTRO.CAP. | 470uF    | 16V |      | RE3-16V471MG3#     | K40129066 |       | 1-  | A    | A3      |
| C 1351 | CHIP TA.CAP.    | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | B    | d4      |
| C 1352 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | E2      |
| C 1353 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | A5      |
| C 1354 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | A5      |
| C 1355 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | A5      |
| C 1356 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | A5      |



# MAIN Unit

## Parts List

| REF    | DESCRIPTION  | VALUE    | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.  | LOT  | SIDE | LAY ADR |
|--------|--------------|----------|-----|------|--------------------|-----------|--------|------|------|---------|
| C 1357 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |        | 1-   | A    | A5      |
| C 1358 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |        | 1-   | A    | B5      |
| C 1359 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |        | 1-   | A    | B5      |
| C 1360 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | A5      |
| C 1361 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | A5      |
| C 1362 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1363 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1364 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1365 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1366 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1367 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1368 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1369 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1370 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1371 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1372 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1373 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1374 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1375 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1376 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1377 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1378 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1379 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1380 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1381 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1382 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | A5      |
| C 1383 | CHIP CAP.    | 15pF     | 50V | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-   | A    | G5      |
| C 1384 | CHIP CAP.    | 12pF     | 50V | CH   | GRM1882C1H120JA01D | K22174213 |        | 1-   | A    | G5      |
| C 1385 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |        | 1-   | B    | b2      |
| C 1386 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |        | 1-   | A    | G5      |
| C 1387 | CHIP CAP.    | 12pF     | 50V | CH   | GRM1882C1H120JA01D | K22174213 |        | 1-   | A    | G5      |
| C 1390 | CHIP CAP.    | 0.0039uF | 50V | B    | GRM188B11H392KA01D | K22174830 |        | 1-   | A    | C5      |
| C 1391 | CHIP CAP.    | 0.0068uF | 50V | B    | GRM188B11H682KA01D | K22174834 |        | 1-   | A    | C5      |
| C 1392 | CHIP CAP.    | 0.0033uF | 50V | B    | GRM188B11H332KA01D | K22174831 |        | 1-   | A    | C5      |
| C 1393 | CHIP TA.CAP. | 47uF     | 4V  |      | SK7-0G476M-RA      | K78060048 |        | 1-   | B    | d4      |
| C 1394 | CHIP TA.CAP. | 47uF     | 4V  |      | SK7-0G476M-RA      | K78060048 |        | 1-   | B    | e5      |
| C 1395 | CHIP TA.CAP. | 47uF     | 4V  |      | SK7-0G476M-RA      | K78060048 |        | 1-   | B    | d3      |
| C 1396 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | B5      |
| C 1397 | CHIP CAP.    | 15pF     | 50V | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-   | A    | F5      |
| C 1398 | CHIP CAP.    | 39pF     | 50V | CH   | GRM1882C1H390JA01D | K22174225 |        | 1-   | A    | F5      |
| C 1399 | CHIP CAP.    | 6pF      | 50V | CH   | GRM1882C1H6R0DZ01D | K22174207 | VER. A | 29-  | A    | F5      |
| C 1400 | CHIP CAP.    | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |        | 1-   | A    | F5      |
| C 1402 | CHIP CAP.    | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |        | 1-   | A    | F5      |
| C 1403 | CHIP CAP.    | 6pF      | 50V | CH   | GRM1882C1H6R0DZ01D | K22174207 |        | 1-   | A    | F5      |
| C 1405 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | B    | d5      |
| C 1406 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | B    | b5      |
| C 1407 | CHIP CAP.    | 39pF     | 50V | CH   | GRM1882C1H390JA01D | K22174225 |        | 1-23 | A    | F5      |
| C 1407 | CHIP CAP.    | 33pF     | 50V | CH   | GRM1882C1H330JA01D | K22174223 | VER. A | 24-  | A    | F5      |
| C 1407 | CHIP CAP.    | 39pF     | 50V | CH   | GRM1882C1H390JA01D | K22174225 | VER. C | 24-  | A    | F5      |
| C 1408 | CHIP CAP.    | 2pF      | 50V | CK   | GRM1884C1H2R0CZ01D | K22174203 |        | 1-   | A    | F5      |
| C 1409 | CHIP CAP.    | 12pF     | 50V | CH   | GRM1882C1H120JA01D | K22174213 |        | 1-   | A    | F5      |
| C 1410 | CHIP CAP.    | 6pF      | 50V | CH   | GRM1882C1H6R0DZ01D | K22174207 |        | 1-   | A    | F5      |
| C 1411 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | c5      |
| C 1412 | CHIP CAP.    | 22pF     | 50V | CH   | GRM1882C1H220JA01D | K22174219 |        | 1-   | A    | F5      |
| C 1413 | CHIP CAP.    | 39pF     | 50V | CH   | GRM1882C1H390JA01D | K22174225 |        | 1-   | A    | F5      |
| C 1414 | CHIP CAP.    | 220pF    | 50V | CH   | GRM1882C1H221JA01D | K22174243 |        | 1-28 | A    | F5      |
| C 1414 | CHIP CAP.    | 220pF    | 50V | CH   | GRM1882C1H221JA01D | K22174243 | VER. C | 29-  | A    | F5      |
| C 1415 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | B    | c5      |
| C 1416 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | B    | c5      |
| C 1417 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | F5      |
| C 1419 | CHIP CAP.    | 22pF     | 50V | CH   | GRM1882C1H220JA01D | K22174219 | VER. A | 29-  | A    | F5      |
| C 1420 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | A    | F5      |
| C 1421 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |        | 1-   | A    | F5      |
| C 1422 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |        | 1-   | A    | F5      |
| C 1423 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | A    | F5      |
| C 1424 | CHIP CAP.    | 47pF     | 50V | CH   | GRM1882C1H470JA01D | K22174227 |        | 1-28 | A    | F5      |
| C 1424 | CHIP CAP.    | 39pF     | 50V | CH   | GRM1882C1H390JA01D | K22174225 | VER. A | 29-  | A    | F5      |
| C 1424 | CHIP CAP.    | 47pF     | 50V | CH   | GRM1882C1H470JA01D | K22174227 | VER. C | 29-  | A    | F5      |
| C 1425 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |        | 1-   | A    | F5      |
| C 1426 | CHIP CAP.    | 47pF     | 50V | CH   | GRM1882C1H470JA01D | K22174227 |        | 1-   | A    | E5      |
| C 1427 | CHIP CAP.    | 18pF     | 50V | CH   | GRM1882C1H180JA01D | K22174217 |        | 1-   | A    | E5      |
| C 1429 | CHIP CAP.    | 15pF     | 50V | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-   | A    | E5      |
| C 1430 | CHIP CAP.    | 6pF      | 50V | CH   | GRM1882C1H6R0DZ01D | K22174207 |        | 1-   | A    | E5      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION   | VALUE   | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.  | LOT   | SIDE | LAY ADR |
|--------|---------------|---------|------|------|--------------------|-----------|--------|-------|------|---------|
| C 1431 | CHIP CAP.     | 3pF     | 50V  | CJ   | GRM1883C1H3R0CZ01D | K22174204 |        | 1-23  | A    | E5      |
| C 1431 | CHIP CAP.     | 3pF     | 50V  | CJ   | GRM1883C1H3R0CZ01D | K22174204 | VER. C | 24-   | A    | E5      |
| C 1432 | CHIP CAP.     | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 1-    | B    | c5      |
| C 1433 | CHIP CAP.     | 39pF    | 50V  | CH   | GRM1882C1H390JA01D | K22174225 |        | 1-23  | A    | E5      |
| C 1433 | CHIP CAP.     | 33pF    | 50V  | CH   | GRM1882C1H330JA01D | K22174223 | VER. A | 24-   | A    | E5      |
| C 1433 | CHIP CAP.     | 39pF    | 50V  | CH   | GRM1882C1H390JA01D | K22174225 | VER. C | 24-   | A    | E5      |
| C 1434 | CHIP CAP.     | 2pF     | 50V  | CK   | GRM1884C1H2R0CZ01D | K22174203 |        | 1-    | A    | E5      |
| C 1435 | CHIP CAP.     | 12pF    | 50V  | CH   | GRM1882C1H120JA01D | K22174213 |        | 1-    | A    | E5      |
| C 1436 | CHIP CAP.     | 6pF     | 50V  | CH   | GRM1882C1H6R0DZ01D | K22174207 |        | 1-    | A    | E5      |
| C 1437 | CHIP CAP.     | 22pF    | 50V  | CH   | GRM1882C1H220JA01D | K22174219 |        | 1-    | A    | E5      |
| C 1438 | CHIP CAP.     | 33pF    | 50V  | CH   | GRM1882C1H330JA01D | K22174223 |        | 1-    | A    | E5      |
| C 1439 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-    | A    | E5      |
| C 1440 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-    | A    | E5      |
| C 1442 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-28  | A    | E5      |
| C 1442 | CHIP CAP.     | 12pF    | 50V  | CH   | GRM1882C1H120JA01D | K22174213 | VER. A | 29-   | A    | E5      |
| C 1442 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 | VER. C | 29-   | A    | E5      |
| C 1443 | CHIP CAP.     | 12pF    | 50V  | CH   | GRM1882C1H120JA01D | K22174213 |        | 1-28  | A    | E5      |
| C 1443 | CHIP CAP.     | 9pF     | 50V  | CH   | GRM1882C1H9R0DZ01D | K22174210 | VER. A | 29-   | A    | E5      |
| C 1443 | CHIP CAP.     | 12pF    | 50V  | CH   | GRM1882C1H120JA01D | K22174213 | VER. C | 29-   | A    | E5      |
| C 1445 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-28  | A    | E5      |
| C 1445 | CHIP CAP.     | 12pF    | 50V  | CH   | GRM1882C1H120JA01D | K22174213 | VER. A | 29-   | A    | E5      |
| C 1445 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 | VER. C | 29-   | A    | E5      |
| C 1446 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-    | A    | E5      |
| C 1447 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-    | A    | E5      |
| C 1448 | CHIP CAP.     | 33pF    | 50V  | CH   | GRM1882C1H330JA01D | K22174223 |        | 1-28  | A    | E5      |
| C 1448 | CHIP CAP.     | 33pF    | 50V  | CH   | GRM1882C1H330JA01D | K22174223 | VER. C | 29-   | A    | E5      |
| C 1449 | CHIP CAP.     | 47pF    | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |        | 1-28  | A    | E5      |
| C 1449 | CHIP CAP.     | 47pF    | 50V  | CH   | GRM1882C1H470JA01D | K22174227 | VER. C | 29-   | A    | E5      |
| C 1450 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | A    | E4      |
| C 1451 | CHIP CAP.     | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 1-    | A    | D4      |
| C 1452 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | A    | D3      |
| C 1453 | CHIP CAP.     | 0.01uF  | 25V  | B    | GRM39B103M25PT     | K22144802 |        | 1-    | A    | E4      |
| C 1454 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | B    | a3      |
| C 1455 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | B    | a4      |
| C 1461 | CHIP CAP.     | 1pF     | 50V  | CK   | GRM1884C1H1R0CZ01D | K22174202 |        | 1-    | A    | G4      |
| C 1461 | CHIP CAP.     | 4pF     | 50V  | CH   | GRM1882C1H4R0CZ01D | K22174205 |        | 10-   | A    | G4      |
| C 1461 | CHIP CAP.     | 3pF     | 50V  | CJ   | GRM1883C1H3R0CZ01D | K22174204 |        | 16-23 | A    | G4      |
| C 1461 | CHIP CAP.     | 1pF     | 50V  | CK   | GRM1884C1H1R0CZ01D | K22174202 | VER. A | 24-   | A    | G4      |
| C 1461 | CHIP CAP.     | 3pF     | 50V  | CJ   | GRM1883C1H3R0CZ01D | K22174204 | VER. C | 24-   | A    | G4      |
| C 1462 | CHIP CAP.     | 1pF     | 50V  | CK   | GRM1884C1H1R0CZ01D | K22174202 |        | 1-    | A    | G3      |
| C 1462 | CHIP CAP.     | 2pF     | 50V  | CK   | GRM1884C1H2R0CZ01D | K22174203 |        | 10-   | A    | G3      |
| C 1462 | CHIP CAP.     | 1pF     | 50V  | CK   | GRM1884C1H1R0CZ01D | K22174202 |        | 16-   | A    | G3      |
| C 1463 | TANTALUM CAP. | 47uF    | 6.3V |      | DN0J470M1S         | K70087476 |        | 1-    |      |         |
| C 1464 | TANTALUM CAP. | 47uF    | 6.3V |      | DN0J470M1S         | K70087476 |        | 1-    |      |         |
| C 1465 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 23-   |      |         |
| C 1466 | CHIP CAP.     | 33pF    | 50V  | CH   | GRM1882C1H330JA01D | K22174223 | VER. A | 29-   |      |         |
| C 1467 | CHIP CAP.     | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 28-   |      |         |
| C 1468 | CHIP CAP.     | 22pF    | 50V  | CH   | GRM1882C1H220JA01D | K22174219 | VER. A | 29-   |      |         |
| C 1501 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | B    | c3      |
| C 1502 | CHIP CAP.     | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-    | B    | c3      |
| C 1503 | CHIP CAP.     | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-    | B    | c3      |
| C 1504 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | B    | c3      |
| C 1505 | CHIP CAP.     | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-    | B    | c3      |
| C 1506 | CHIP CAP.     | 8pF     | 50V  | CH   | GRM1882C1H8R0DZ01D | K22174209 |        | 1-    | B    | d3      |
| C 1508 | CHIP CAP.     | 8pF     | 50V  | CH   | GRM1882C1H8R0DZ01D | K22174209 |        | 1-    | B    | d2      |
| C 1510 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | B    | c2      |
| C 1511 | CHIP CAP.     | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 16-   | B    | c2      |
| C 1512 | CHIP CAP.     | 100pF   | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-    | B    | c2      |
| C 1513 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | B    | c2      |
| C 1514 | CHIP CAP.     | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-    | B    | c2      |
| C 1515 | CHIP CAP.     | 2pF     | 50V  | CK   | GRM1884C1H2R0CZ01D | K22174203 |        | 1-    | B    | c2      |
| C 1515 | CHIP CAP.     | 8pF     | 50V  | CH   | GRM1882C1H8R0DZ01D | K22174209 |        | 16-   | B    | c2      |
| C 1517 | CHIP CAP.     | 8pF     | 50V  | CH   | GRM1882C1H8R0DZ01D | K22174209 |        | 1-    | B    | c2      |
| C 1518 | CHIP CAP.     | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-    | B    | c2      |
| C 1520 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | B    | c1      |
| C 1521 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-    | B    | c1      |
| C 1522 | CHIP CAP.     | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-    | B    | c3      |
| C 1527 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 16-   | A    | E2      |
| C 1528 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 16-   | A    | E2      |
| C 1529 | CHIP CAP.     | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 16-   | B    | c2      |
| C 1530 | CHIP CAP.     | 27pF    | 50V  | CH   | GRM1882C1H270JA01D | K22174221 |        | 16-   | B    | d3      |
| C 1532 | CHIP CAP.     | 27pF    | 50V  | CH   | GRM1882C1H270JA01D | K22174221 |        | 16-   | B    | c2      |
| C 1534 | CHIP CAP.     | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 16-   |      |         |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION    | VALUE   | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.  | LOT  | SIDE | LAY ADR |
|--------|----------------|---------|-----|------|--------------------|-----------|--------|------|------|---------|
| CD1001 | CERAMIC DISC   |         |     |      | CDBLA455KCAY07-B0  | H7900180  |        | 1-   | A    | E1      |
| CF1001 | CERAMIC FILTER |         |     |      | CFWLB455KGF-A-B0   | H3900399  |        | 1-   | A    | F1      |
| CF1002 | CERAMIC FILTER |         |     |      | CFWLB455KFFA-B0    | H3900395  |        | 1-   | A    | F1      |
| D 1001 | DIODE          |         |     |      | 1SS302 TE85R       | G2070088  |        | 1-   | B    | a5      |
| D 1002 | DIODE          |         |     |      | RN739F T106        | G2070626  |        | 1-   | B    | a5      |
| D 1006 | DIODE          |         |     |      | HZU5ALL-TR         | G2070754  |        | 1-   | B    | e2      |
| D 1008 | DIODE          |         |     |      | HVU306A5TRF        | G2070132  |        | 1-   | A    | C1      |
| D 1009 | DIODE          |         |     |      | HVU306A5TRF        | G2070132  |        | 1-   | A    | C2      |
| D 1010 | DIODE          |         |     |      | 1SV214 TPH         | G2070356  |        | 1-   | A    | C1      |
| D 1011 | DIODE          |         |     |      | HZM5.6NB2 TR       | G2070722  |        | 1-   | B    | d3      |
| D 1012 | DIODE          |         |     |      | MA142WK-(TX)       | G2070534  |        | 1-   | B    | b2      |
| D 1013 | DIODE          |         |     |      | MA142WK-(TX)       | G2070534  |        | 1-   | B    | b1      |
| D 1014 | DIODE          |         |     |      | MA143-(TX)         | G2070536  |        | 1-   | A    | D1      |
| D 1015 | DIODE          |         |     |      | MA143-(TX)         | G2070536  |        | 1-   | A    | E1      |
| D 1016 | DIODE          |         |     |      | RN739F T106        | G2070626  |        | 1-   | A    | B1      |
| D 1017 | DIODE          |         |     |      | RN739F T106        | G2070626  |        | 1-   | A    | B1      |
| D 1018 | DIODE          |         |     |      | 1SV229 TPH3        | G2070256  |        | 1-   | A    | G4      |
| D 1019 | DIODE          |         |     |      | 1SV229 TPH3        | G2070256  |        | 1-   | A    | G4      |
| D 1020 | DIODE          |         |     |      | 1SV229 TPH3        | G2070256  |        | 1-   | A    | G4      |
| D 1021 | DIODE          |         |     |      | 1SV229 TPH3        | G2070256  |        | 1-   | A    | G4      |
| D 1022 | DIODE          |         |     |      | HZU5ALL-TR         | G2070754  |        | 1-   | B    | b2      |
| D 1023 | DIODE          |         |     |      | MA143-(TX)         | G2070536  |        | 1-   | A    | C4      |
| D 1024 | DIODE          |         |     |      | MA143-(TX)         | G2070536  |        | 1-   | A    | C4      |
| D 1025 | DIODE          |         |     |      | MA143-(TX)         | G2070536  |        | 1-   | A    | B4      |
| D 1026 | DIODE          |         |     |      | MA143-(TX)         | G2070536  |        | 1-   | A    | B4      |
| D 1027 | DIODE          |         |     |      | 1SV229 TPH3        | G2070256  |        | 1-   | A    | G3      |
| D 1028 | DIODE          |         |     |      | 1SV229 TPH3        | G2070256  |        | 1-   | A    | G3      |
| D 1029 | DIODE          |         |     |      | 1SV229 TPH3        | G2070256  |        | 1-   | A    | G3      |
| D 1030 | DIODE          |         |     |      | 1SV229 TPH3        | G2070256  |        | 1-   | A    | G3      |
| D 1033 | DIODE          |         |     |      | HVU306A5TRF        | G2070132  |        | 1-   | A    | F5      |
| D 1034 | DIODE          |         |     |      | HVU306A5TRF        | G2070132  |        | 1-   | A    | F5      |
| D 1035 | DIODE          |         |     |      | HVU306A5TRF        | G2070132  |        | 1-   | A    | E5      |
| D 1036 | DIODE          |         |     |      | HVU306A5TRF        | G2070132  |        | 1-   | A    | E5      |
| D 1501 | DIODE          |         |     |      | 1SS321 TE85R       | G2070076  |        | 16-  | B    | c3      |
| D 1501 | DIODE          |         |     |      | DAN235K T97        | G2070082  |        | 23-  | B    | c3      |
| D 1502 | DIODE          |         |     |      | 1SS321 TE85R       | G2070076  |        | 16-  | B    | c1      |
| D 1502 | DIODE          |         |     |      | DAN235K T97        | G2070082  |        | 23-  | B    | c1      |
| J 1001 | CONNECTOR      |         |     |      | TMP-J01X-V6        | P1090210  |        | 1-   | A    | G5      |
| J 1002 | CONNECTOR      |         |     |      | SB20-02WS          | P0090609  |        | 1-   | A    | A3      |
| J 1003 | CONNECTOR      |         |     |      | SB20-02WS          | P0090609  |        | 1-   | A    | A4      |
| J 1004 | CONNECTOR      |         |     |      | SB20-03WS          | P0090610  |        | 1-   | A    | A4      |
| J 1005 | CONNECTOR      |         |     |      | FH12-50S-0.5SV     | P1091092  |        | 1-   | A    | B5      |
| J 1006 | CONNECTOR      |         |     |      | SC25-02WS          | P0090621  |        | 1-   | A    | A2      |
| J 1007 | CONNECTOR      |         |     |      | TMP-J01X-V6        | P1090210  |        | 1-   | A    | A1      |
| L 1001 | M.RFC          | 10uH    |     |      | LK1608 100K-T      | L1690689  |        | 1-   | B    | a5      |
| L 1002 | M.RFC          | 4.7uH   |     |      | LK1608 4R7K-T      | L1690688  |        | 1-   | A    | C4      |
| L 1006 | M.RFC          | 4.7uH   |     |      | LK1608 4R7K-T      | L1690688  |        | 1-   | A    | C3      |
| L 1007 | M.RFC          | 3.3uH   |     |      | LK1608 3R3K-T      | L1690686  |        | 1-   | A    | C3      |
| L 1009 | CHIP COIL      | 0.47uH  |     |      | C2520C-R47J        | L1690552  |        | 1-   | A    | C3      |
| L 1014 | CHIP COIL      | 0.22uH  |     |      | C2520C-R22J        | L1690548  |        | 1-   | A    | E3      |
| L 1015 | M.RFC          | 0.047uH |     |      | HK1608 47NJ-T      | L1690524  |        | 1-   | B    | c3      |
| L 1016 | M.RFC          | 0.047uH |     |      | HK1608 47NJ-T      | L1690524  |        | 1-   | B    | c3      |
| L 1017 | M.RFC          | 10uH    |     |      | LK1608 100K-T      | L1690689  |        | 1-   | A    | C1      |
| L 1018 | CHIP COIL      | 0.22uH  |     |      | C2520C-R22J        | L1690548  |        | 1-   | B    | c3      |
| L 1019 | COIL           |         |     |      | E2 0.35-1.6-5.5T-L | L0022616  |        | 1-23 | A    | C2      |
| L 1019 | COIL           |         |     |      | E2 0.35-1.6-7T-L   | L0022390  | VER. A | 24-  | A    | C2      |
| L 1019 | COIL           |         |     |      | E2 0.35-1.6-5.5T-L | L0022616  | VER. C | 24-  | A    | C2      |
| L 1021 | CHIP COIL      | 0.68uH  |     |      | C2520C-R68J        | L1690554  |        | 1-   | A    | E2      |
| L 1022 | COIL           |         |     |      | E2 0.25-1.9-5.5T-R | L0022610  |        | 1-23 | A    | G5      |
| L 1022 | COIL           |         |     |      | E2 0.25-1.9-6.5T-L | L0022401  | VER. A | 24-  | A    | G5      |
| L 1022 | COIL           |         |     |      | E2 0.25-1.9-5.5T-R | L0022610  | VER. C | 24-  | A    | G5      |
| L 1023 | M.RFC          | 10uH    |     |      | LK2125 100K-T      | L1690331  |        | 1-   | B    | c3      |
| L 1024 | M.RFC          | 0.1uH   |     |      | LK2125 R10K-T      | L1690307  |        | 1-   | A    | D2      |
| L 1024 | M.RFC          | 0.27uH  |     |      | LK2125 R27K-T      | L1690312  |        | 16-  | A    | D2      |
| L 1025 | COIL           |         |     |      | E2 0.25-1.9-5.5T-R | L0022610  |        | 1-23 | A    | G5      |
| L 1025 | COIL           |         |     |      | E2 0.25-1.9-6.5T-L | L0022401  | VER. A | 24-  | A    | G5      |
| L 1025 | COIL           |         |     |      | E2 0.25-1.9-5.5T-R | L0022610  | VER. C | 24-  | A    | G5      |
| L 1026 | CHIP COIL      | 0.22uH  |     |      | C2520C-R22J        | L1690548  |        | 1-   | A    | B2      |
| L 1027 | M.RFC          | 1uH     |     | 5%   | C2012C-1R0J        | L1691160  |        | 1-   | A    | E2      |
| L 1028 | M.RFC          | 0.47uH  |     | 5%   | C2012C-R47J        | L1691016  |        | 1-   | A    | G4      |
| L 1029 | M.RFC          | 0.33uH  |     |      | LK2125 R33K-T      | L1690313  |        | 1-   | A    | E2      |
| L 1030 | CHIP COIL      | 0.047uH |     |      | C2520C-47NK        | L1690540  |        | 1-   | A    | B2      |
| L 1031 | CHIP COIL      | 0.22uH  |     |      | C2520C-R22J        | L1690548  |        | 1-   | A    | A1      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE   | V/W | TOL. | MFR'S DESIG            | VXSTD P/N | VERS.  | LOT  | SIDE | LAY ADR |
|--------|-------------|---------|-----|------|------------------------|-----------|--------|------|------|---------|
| L 1032 | M.RFC       | 4.7uH   |     |      | LK1608 4R7K-T          | L1690688  |        | 1-   | A    | G1      |
| L 1033 | M.RFC       | 0.47uH  |     | 5%   | C2012C-R47J            | L1691016  |        | 1-   | A    | G4      |
| L 1034 | COIL        |         |     |      | E2 0.35-1.6-5.5T-L     | L0022616  |        | 1-23 | A    | G4      |
| L 1034 | COIL        |         |     |      | E2 0.35-1.6-7T-L       | L0022390  | VER. A | 24-  | A    | G4      |
| L 1034 | COIL        |         |     |      | E2 0.35-1.6-5.5T-L     | L0022616  | VER. C | 24-  | A    | G4      |
| L 1035 | M.RFC       | 0.47uH  |     | 5%   | C2012C-R47J            | L1691016  |        | 1-   | A    | G4      |
| L 1036 | M.RFC       | 0.47uH  |     | 5%   | C2012C-R47J            | L1691016  |        | 1-   | A    | F4      |
| L 1037 | M.RFC       | 0.47uH  |     | 5%   | C2012C-R47J            | L1691016  |        | 1-   | A    | G3      |
| L 1038 | M.RFC       | 0.47uH  |     | 5%   | C2012C-R47J            | L1691016  |        | 1-   | A    | G3      |
| L 1039 | M.RFC       | 3.3uH   |     |      | LK1608 3R3K-T          | L1690686  |        | 1-   | A    | G2      |
| L 1040 | COIL        |         |     |      | E2 0.35-1.6-5.5T-L     | L0022616  |        | 1-23 | A    | G3      |
| L 1040 | COIL        |         |     |      | E2 0.35-1.6-7T-L       | L0022390  | VER. A | 24-  | A    | G3      |
| L 1040 | COIL        |         |     |      | E2 0.35-1.6-5.5T-L     | L0022616  | VER. C | 24-  | A    | G3      |
| L 1041 | M.RFC       | 0.47uH  |     | 5%   | C2012C-R47J            | L1691016  |        | 1-   | A    | G3      |
| L 1042 | CHIP COIL   | 0.47uH  |     |      | C2520C-R47J            | L1690552  |        | 1-   | A    | G2      |
| L 1043 | M.RFC       | 0.47uH  |     | 5%   | C2012C-R47J            | L1691016  |        | 1-   | A    | F3      |
| L 1044 | COIL        |         |     |      | E2 0.25-1.9-8T-L       | L0022550  |        | 1-23 | A    | F5      |
| L 1044 | COIL        |         |     |      | E2 0.25-1.9-8.5T-L     | L0022611  | VER. A | 24-  | A    | F5      |
| L 1044 | COIL        |         |     |      | E2 0.25-1.9-8T-L       | L0022550  | VER. C | 24-  | A    | F5      |
| L 1045 | M.RFC       | 4.7uH   |     |      | LK1608 4R7K-T          | L1690688  |        | 1-   | A    | G2      |
| L 1046 | CHIP COIL   | 0.22uH  |     |      | C2520C-R22J            | L1690548  |        | 1-   | A    | F4      |
| L 1047 | CHIP COIL   | 0.047uH |     |      | C2520C-47NK            | L1690540  |        | 1-   | A    | F3      |
| L 1048 | COIL        |         |     |      | E2 0.25-1.9-8T-L       | L0022550  |        | 1-23 | A    | F5      |
| L 1048 | COIL        |         |     |      | E2 0.25-1.9-8.5T-L     | L0022611  | VER. A | 24-  | A    | F5      |
| L 1048 | COIL        |         |     |      | E2 0.25-1.9-8T-L       | L0022550  | VER. C | 24-  | A    | F5      |
| L 1049 | M.RFC       | 0.1uH   |     |      | HK1608 R10J-T          | L1690528  |        | 1-   | A    | F5      |
| L 1050 | COIL        |         |     |      | E2 0.25-1.9-8T-L       | L0022550  |        | 1-23 | A    | E5      |
| L 1050 | COIL        |         |     |      | E2 0.25-1.9-8.5T-L     | L0022611  | VER. A | 24-  | A    | E5      |
| L 1050 | COIL        |         |     |      | E2 0.25-1.9-8T-L       | L0022550  | VER. C | 24-  | A    | E5      |
| L 1051 | COIL        |         |     |      | E2 0.25-1.9-8T-L       | L0022550  |        | 1-23 | A    | E5      |
| L 1051 | COIL        |         |     |      | E2 0.25-1.9-8.5T-L     | L0022611  | VER. A | 24-  | A    | E5      |
| L 1051 | COIL        |         |     |      | E2 0.25-1.9-8T-L       | L0022550  | VER. C | 24-  | A    | E5      |
| L 1052 | COIL        |         |     |      | E2 0.25-1.9-5.5T-R     | L0022610  |        | 1-23 | A    | E5      |
| L 1052 | COIL        |         |     |      | E2 0.25-1.9-6.5T-L     | L0022401  | VER. A | 24-  | A    | E5      |
| L 1052 | COIL        |         |     |      | E2 0.25-1.9-5.5T-R     | L0022610  | VER. C | 24-  | A    | E5      |
| L 1053 | COIL        |         |     |      | E2 0.25-1.9-5.5T-R     | L0022610  |        | 1-23 | A    | D5      |
| L 1053 | COIL        |         |     |      | E2 0.25-1.9-6.5T-L     | L0022401  | VER. A | 24-  | A    | D5      |
| L 1053 | COIL        |         |     |      | E2 0.25-1.9-5.5T-R     | L0022610  | VER. C | 24-  | A    | D5      |
| L 1054 | M.RFC       | 0.047uH |     |      | HK1608 47NJ-T          | L1690524  |        | 1-28 | A    | D5      |
| L 1054 | M.RFC       | 0.047uH |     |      | HK1608 47NJ-T          | L1690524  | VER. C | 29-  | A    | D5      |
| L 1055 | M.RFC       | 0.039uH |     |      | HK1608 39NJ-T          | L1690523  | VER. A | 29-  |      |         |
| L 1056 | M.RFC       | 0.068uH |     |      | HK1608 68NJ-T          | L1690526  | VER. A | 29-  |      |         |
| L 1057 | M.RFC       | 0.068uH |     |      | HK1608 68NJ-T          | L1690526  | VER. A | 29-  |      |         |
| L 1501 | CHIP COIL   | 0.22uH  |     |      | C2520C-R22J            | L1690548  |        | 1-   | B    | c3      |
| L 1502 | CHIP COIL   | 0.68uH  |     |      | C2520C-R68J            | L1690554  |        | 1-   | B    | c2      |
| L 1503 | M.RFC       | 0.1uH   |     |      | LK2125 R10K-T          | L1690307  |        | 1-15 | B    | c2      |
| L 1503 | M.RFC       | 0.27uH  |     |      | LK2125 R27K-T          | L1690312  |        | 16-  | B    | c2      |
| L 1504 | M.RFC       | 1uH     |     | 5%   | C2012C-1R0J            | L1691160  |        | 1-22 | B    | c1      |
| L 1504 | M.RFC       | 0.56uH  |     | 5%   | C2012C-R56J            | L1691020  |        | 23-  | B    | c1      |
| L 1505 | M.RFC       | 4.7uH   |     |      | LK1608 4R7K-T          | L1690688  |        | 16-  | B    | c3      |
| L 1506 | M.RFC       | 4.7uH   |     |      | LK1608 4R7K-T          | L1690688  |        | 16-  | B    | c3      |
| L 1507 | M.RFC       | 4.7uH   |     |      | LK1608 4R7K-T          | L1690688  |        | 16-  | B    | c3      |
| L 1508 | M.RFC       | 4.7uH   |     |      | LK1608 4R7K-T          | L1690688  |        | 16-  | B    | c2      |
| L 1509 | M.RFC       | 4.7uH   |     |      | LK1608 4R7K-T          | L1690688  |        | 16-  | B    | c2      |
| L 1510 | M.RFC       | 4.7uH   |     |      | LK1608 4R7K-T          | L1690688  |        | 16-  | B    | c1      |
| Q 1001 | IC          |         |     |      | NJM2902V-TE1           | G1091679  |        | 1-   | A    | C5      |
| Q 1002 | TRANSISTOR  |         |     |      | 2SD1664 T100 Q         | G3416647Q |        | 1-   | B    | e4      |
| Q 1003 | IC          |         |     |      | TA75S01F TE85R         | G1091593  |        | 1-   | B    | e3      |
| Q 1004 | IC          |         |     |      | NJM2904V-TE1           | G1091677  |        | 1-   | A    | D4      |
| Q 1005 | IC          |         |     |      | TAR5S30(TE85L)         | G1093570  |        | 1-   | B    | d1      |
| Q 1006 | IC          |         |     |      | M51132FP 600C          | G1091930  |        | 1-   | A    | D4      |
| Q 1007 | TRANSISTOR  |         |     |      | 2SC4116GR TE85R        | G3341167G |        | 1-   | A    | C3      |
| Q 1008 | IC          |         |     |      | MB15A02PFV1-G-BND-EFE1 | G1092541  |        | 1-   | A    | C3      |
| Q 1010 | IC          |         |     |      | NJM2904V-TE1           | G1091677  |        | 1-   | B    | e5      |
| Q 1011 | TRANSISTOR  |         |     |      | 2SC4116GR TE85R        | G3341167G |        | 1-   | B    | e3      |
| Q 1012 | TRANSISTOR  |         |     |      | 2SA1586Y TE85R         | G3115867Y |        | 1-   | B    | e3      |
| Q 1013 | TRANSISTOR  |         |     |      | UN5215-(TX)            | G3070193  |        | 1-   | B    | e3      |
| Q 1014 | TRANSISTOR  |         |     |      | 2SA1162GR TE85R        | G3111627G |        | 1-   | B    | e2      |
| Q 1015 | TRANSISTOR  |         |     |      | 2SC2712GR TE85R        | G3327127G |        | 1-   | B    | e2      |
| Q 1016 | TRANSISTOR  |         |     |      | 2SC4116GR TE85R        | G3341167G |        | 1-   | B    | d2      |
| Q 1017 | IC          |         |     |      | NJM2902V-TE1           | G1091679  |        | 1-   | A    | C4      |
| Q 1018 | IC          |         |     |      | SPM5001                | G1093686  |        | 1-   | A    | E4      |
| Q 1019 | TRANSISTOR  |         |     |      | 2SC3357-T2 RF          | G3333577F |        | 1-   | B    | b3      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG            | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|------------------------|-----------|-------|------|------|---------|
| Q 1020 | IC          |       |       |      | NJM2904V-TE1           | G1091677  |       | 1-   | A    | B3      |
| Q 1021 | TRANSISTOR  |       |       |      | 2SC5107-O(TE85R)       | G33510770 |       | 1-   | A    | C2      |
| Q 1022 | TRANSISTOR  |       |       |      | 2SC5226-4/5-TL         | G3352268Z |       | 1-   | A    | D2      |
| Q 1023 | TRANSISTOR  |       |       |      | 2SC2812NL6-TB          | G3328128F |       | 1-   | B    | d3      |
| Q 1024 | TRANSISTOR  |       |       |      | XN1213-(TX)            | G3070194  |       | 1-   | A    | C2      |
| Q 1025 | IC          |       |       |      | NJM2902V-TE1           | G1091679  |       | 1-   | A    | B3      |
| Q 1026 | TRANSISTOR  |       |       |      | 2SC5226-4/5-TL         | G3352268Z |       | 1-   | A    | B1      |
| Q 1027 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R        | G3341167G |       | 1-   | B    | d2      |
| Q 1028 | IC          |       |       |      | TA31136FN(EL)          | G1091605  |       | 1-   | A    | E1      |
| Q 1029 | TRANSISTOR  |       |       |      | 2SB1122S-TD            | G3211228S |       | 1-   | B    | d5      |
| Q 1030 | TRANSISTOR  |       |       |      | 2SC3357-T2 RF          | G3333577F |       | 1-   | A    | A2      |
| Q 1031 | TRANSISTOR  |       |       |      | XN1213-(TX)            | G3070194  |       | 1-   | B    | d5      |
| Q 1032 | TRANSISTOR  |       |       |      | UN5213-(TX)            | G3070192  |       | 1-   | B    | g2      |
| Q 1033 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R        | G3341167G |       | 1-   | A    | E1      |
| Q 1034 | TRANSISTOR  |       |       |      | 2SA1179M6-TA           | G3111797F |       | 1-   | B    | g1      |
| Q 1035 | TRANSISTOR  |       |       |      | XN1213-(TX)            | G3070194  |       | 1-   | B    | b1      |
| Q 1036 | TRANSISTOR  |       |       |      | XN1213-(TX)            | G3070194  |       | 1-   | B    | f1      |
| Q 1037 | TRANSISTOR  |       |       |      | DTA144EE TL            | G3070074  |       | 1-   | B    | f1      |
| Q 1039 | TRANSISTOR  |       |       |      | XN1213-(TX)            | G3070194  |       | 1-   | B    | d1      |
| Q 1040 | IC          |       |       |      | BU4066BCFV-E2          | G1093537  |       | 1-   | B    | g4      |
| Q 1041 | TRANSISTOR  |       |       |      | 2SA1162GR TE85R        | G3111627G |       | 1-   | B    | b2      |
| Q 1042 | TRANSISTOR  |       |       |      | 2SC2712GR TE85R        | G3327127G |       | 1-   | B    | b2      |
| Q 1043 | TRANSISTOR  |       |       |      | DTC144EK T146          | G3070033  |       | 1-   | B    | g4      |
| Q 1044 | TRANSISTOR  |       |       |      | FMG2 T148              | G3070015  |       | 1-   | B    | g5      |
| Q 1045 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R        | G3341167G |       | 1-   | A    | G2      |
| Q 1046 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R        | G3341167G |       | 1-   | A    | F2      |
| Q 1047 | TRANSISTOR  |       |       |      | UN5215-(TX)            | G3070193  |       | 1-   | A    | F2      |
| Q 1048 | FET         |       |       |      | 2SK520-T2B K41         | G3805207A |       | 1-   | A    | G4      |
| Q 1049 | TRANSISTOR  |       |       |      | RT1N241M-T11-1         | G3070249  |       | 1-   | B    | a4      |
| Q 1050 | IC          |       |       |      | NJM2904V-TE1           | G1091677  |       | 1-   | A    | A4      |
| Q 1051 | TRANSISTOR  |       |       |      | 2SA1586Y TE85R         | G3115867Y |       | 1-   | A    | F2      |
| Q 1052 | IC          |       |       |      | MB15A02PFV1-G-BND-EFE1 | G1092541  |       | 1-   | A    | G2      |
| Q 1053 | FET         |       |       |      | 2SK520-T2B K41         | G3805207A |       | 1-   | A    | G3      |
| Q 1054 | TRANSISTOR  |       |       |      | RT1N241M-T11-1         | G3070249  |       | 1-   | B    | a3      |
| Q 1055 | IC          |       |       |      | M62364FP 600D          | G1093033  |       | 1-   | B    | f3      |
| Q 1056 | IC          |       |       |      | M51132FP 600C          | G1091930  |       | 1-   | A    | B4      |
| Q 1057 | IC          |       |       |      | TDA2003                | G1090769  |       | 1-   | A    | A3      |
| Q 1058 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R        | G3341167G |       | 1-   | B    | b2      |
| Q 1059 | TRANSISTOR  |       |       |      | 2SC5226-4/5-TL         | G3352268Z |       | 1-   | A    | F4      |
| Q 1060 | TRANSISTOR  |       |       |      | DTC144EE TL            | G3070075  |       | 1-   | B    | b2      |
| Q 1061 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R        | G3341167G |       | 1-   | A    | E2      |
| Q 1062 | IC          |       |       |      | L78M05T-TL             | G1091731  |       | 1-   | B    | d4      |
| Q 1063 | TRANSISTOR  |       |       |      | 2SC3356-T2B R25        | G3333567E |       | 1-   | A    | F5      |
| Q 1064 | IC          |       |       |      | TA75S01F TE85R         | G1091593  |       | 1-   | B    | c5      |
| Q 1501 | TRANSISTOR  |       |       |      | XN1213-(TX)            | G3070194  |       | 1-   | B    | c2      |
| Q 1502 | TRANSISTOR  |       |       |      | 2SC5226-4/5-TL         | G3352268Z |       | 1-   | B    | c2      |
| Q 1503 | TRANSISTOR  |       |       |      | XN1213-(TX)            | G3070194  |       | 1-   | A    | E2      |
| Q 1504 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R        | G3341167G |       | 1-   | B    | c2      |
| R 1001 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP        | J24185103 |       | 1-   | B    | a5      |
| R 1002 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP        | J24185101 |       | 1-   | B    | a5      |
| R 1003 | CHIP RES.   | 150   | 1W    | 5%   | RMC1 151JTE            | J24305151 |       | 1-   | B    | e3      |
| R 1004 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP        | J24185104 |       | 1-   | A    | D4      |
| R 1005 | CHIP RES.   | 39k   | 1/16W | 5%   | RMC1/16 393JATP        | J24185393 |       | 1-   | B    | e3      |
| R 1007 | CHIP RES.   | 150   | 1W    | 5%   | RMC1 151JTE            | J24305151 |       | 1-   | B    | e3      |
| R 1009 | CHIP RES.   | 27k   | 1/16W | 5%   | RMC1/16 273JATP        | J24185273 |       | 1-   | B    | e3      |
| R 1010 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16 103FTP         | J24183103 |       | 1-   | A    | C4      |
| R 1011 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16 103FTP         | J24183103 |       | 1-   | A    | C3      |
| R 1013 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP        | J24185104 |       | 1-   | A    | D3      |
| R 1014 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP        | J24185332 |       | 1-   | B    | e4      |
| R 1016 | CHIP RES.   | 8.2k  | 1/16W | 5%   | RMC1/16 822JATP        | J24185822 |       | 1-15 | A    | D4      |
| R 1016 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16 153JATP        | J24185153 |       | 16-  | A    | D4      |
| R 1017 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP        | J24185104 |       | 1-   | B    | e3      |
| R 1019 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP        | J24185102 |       | 1-   | B    | d5      |
| R 1020 | CHIP RES.   | 680   | 1/16W | 5%   | RMC1/16 681JATP        | J24185681 |       | 1-   | B    | d5      |
| R 1022 | CHIP RES.   | 8.2k  | 1/16W | 5%   | RMC1/16 822JATP        | J24185822 |       | 1-   | B    | d3      |
| R 1023 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP        | J24185000 |       | 1-   | A    | C5      |
| R 1024 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP        | J24185104 |       | 1-   | A    | D4      |
| R 1025 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP        | J24185103 |       | 1-   | A    | C3      |
| R 1027 | CHIP RES.   | 120k  | 1/16W | 1%   | RMC1/16 124FTP         | J24183124 |       | 1-   | A    | D5      |
| R 1029 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP        | J24185473 |       | 1-   | A    | D4      |
| R 1030 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16 470JATP        | J24185470 |       | 1-   | A    | C3      |
| R 1031 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP        | J24185104 |       | 1-   | A    | D3      |
| R 1032 | CHIP RES.   | 120k  | 1/16W | 1%   | RMC1/16 124FTP         | J24183124 |       | 1-   | A    | D5      |

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## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS.  | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|--------|------|------|---------|
| R 1033 | CHIP RES.   | 18k   | 1/16W | 5%   | RMC1/16 183JATP | J24185183 |        | 1-   | A    | C3      |
| R 1034 | CHIP RES.   | 12k   | 1/16W | 5%   | RMC1/16 123JATP | J24185123 |        | 1-   | A    | C3      |
| R 1036 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |        | 1-   | A    | C4      |
| R 1037 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |        | 1-   | B    | d4      |
| R 1040 | CHIP RES.   | 220   | 1/16W | 5%   | RMC1/16 221JATP | J24185221 |        | 1-   | A    | C3      |
| R 1041 | CHIP RES.   | 56    | 1/16W | 5%   | RMC1/16 560JATP | J24185560 |        | 1-   | A    | C3      |
| R 1042 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | A    | C3      |
| R 1045 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | A    | C3      |
| R 1046 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |        | 1-   | B    | d4      |
| R 1047 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |        | 1-   | A    | C4      |
| R 1049 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |        | 1-   | A    | D5      |
| R 1050 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16 154JATP | J24185154 |        | 1-   | A    | C5      |
| R 1052 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |        | 1-   | A    | C2      |
| R 1053 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |        | 1-   | A    | C2      |
| R 1055 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |        | 1-   | A    | D5      |
| R 1056 | CHIP RES.   | 39k   | 1/16W | 5%   | RMC1/16 393JATP | J24185393 |        | 1-   | B    | e5      |
| R 1057 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |        | 1-   | A    | C3      |
| R 1061 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |        | 1-   | B    | e3      |
| R 1062 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |        | 1-   | B    | e3      |
| R 1063 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | B    | f2      |
| R 1064 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | A    | G4      |
| R 1066 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |        | 1-   | B    | e2      |
| R 1067 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |        | 1-   | B    | e2      |
| R 1069 | CHIP RES.   | 180k  | 1/16W | 5%   | RMC1/16 184JATP | J24185184 |        | 1-   | A    | C5      |
| R 1070 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |        | 1-   | B    | e3      |
| R 1071 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |        | 1-   | B    | e5      |
| R 1072 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | B    | e2      |
| R 1073 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | B    | d5      |
| R 1074 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |        | 1-   | B    | e5      |
| R 1075 | CHIP RES.   | 10    | 1/16W | 5%   | RMC1/16 100JATP | J24185100 |        | 1-   | B    | d2      |
| R 1076 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | B    | d2      |
| R 1077 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |        | 1-   | B    | e2      |
| R 1078 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |        | 1-   | B    | e2      |
| R 1079 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 | VER. A | 29-  | B    | e2      |
| R 1080 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |        | 1-   | A    | C5      |
| R 1081 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |        | 1-   | A    | C5      |
| R 1082 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |        | 1-   | B    | d3      |
| R 1083 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-28 | B    | e2      |
| R 1083 | CHIP RES.   | 68    | 1/16W | 5%   | RMC1/16 680JATP | J24185680 | VER. A | 29-  | B    | e2      |
| R 1083 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 | VER. C | 29-  | B    | e2      |
| R 1084 | CHIP RES.   | 680   | 1/16W | 5%   | RMC1/16 681JATP | J24185681 |        | 1-   | B    | e5      |
| R 1085 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | B    | e3      |
| R 1086 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |        | 1-   | B    | e3      |
| R 1087 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | B    | d2      |
| R 1088 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |        | 1-   | B    | d2      |
| R 1089 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |        | 1-   | B    | d2      |
| R 1090 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | B    | e2      |
| R 1091 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 | VER. A | 29-  | B    | e2      |
| R 1092 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |        | 1-   | A    | C5      |
| R 1093 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |        | 1-   | A    | D2      |
| R 1094 | CHIP RES.   | 82k   | 1/16W | 5%   | RMC1/16 823JATP | J24185823 |        | 1    | B    | e5      |
| R 1094 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |        | 2-   | B    | e5      |
| R 1094 | CHIP RES.   | 56k   | 1/16W | 5%   | RMC1/16 563JATP | J24185563 |        | 15-  | B    | e5      |
| R 1095 | CHIP RES.   | 82k   | 1/16W | 5%   | RMC1/16 823JATP | J24185823 |        | 1-   | A    | C5      |
| R 1096 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |        | 1-   | B    | e5      |
| R 1097 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP | J24185332 |        | 1-   | A    | D2      |
| R 1098 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP | J24185332 |        | 1-   | A    | D2      |
| R 1099 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | B    | c4      |
| R 1100 | CHIP RES.   | 180   | 1/16W | 5%   | RMC1/16 181JATP | J24185181 | VER. A | 29-  | B    | c3      |
| R 1101 | CHIP RES.   | 270k  | 1/16W | 5%   | RMC1/16 274JATP | J24185274 |        | 1-   | B    | e5      |
| R 1102 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-28 | B    | c3      |
| R 1102 | CHIP RES.   | 33    | 1/16W | 5%   | RMC1/16 330JATP | J24185330 | VER. A | 29-  | B    | c3      |
| R 1102 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 | VER. C | 29-  | B    | c3      |
| R 1104 | CHIP RES.   | 56    | 1/16W | 5%   | RMC1/16 560JATP | J24185560 |        | 1-   | B    | c4      |
| R 1105 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |        | 1-   | A    | D2      |
| R 1106 | CHIP RES.   | 180   | 1/16W | 5%   | RMC1/16 181JATP | J24185181 | VER. A | 29-  | B    | c3      |
| R 1107 | CHIP RES.   | 3.9k  | 1/16W | 5%   | RMC1/16 392JATP | J24185392 |        | 1-   | B    | e5      |
| R 1108 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |        | 1-   | A    | C4      |
| R 1109 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |        | 1-   | A    | C4      |
| R 1110 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |        | 1-   | B    | e4      |
| R 1112 | CHIP RES.   | 8.2k  | 1/16W | 5%   | RMC1/16 822JATP | J24185822 |        | 1-   | B    | e4      |
| R 1114 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |        | 1-   | A    | D3      |
| R 1115 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |        | 1-   | B    | e4      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|------|------|---------|
| R 1116 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-   | A    | C1      |
| R 1117 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-   | A    | E4      |
| R 1118 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-   | A    | E4      |
| R 1119 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |       | 1-   | A    | B4      |
| R 1121 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | A    | C4      |
| R 1122 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | A    | C4      |
| R 1123 | CHIP RES.   | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 |       | 1-   | B    | b3      |
| R 1124 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | A    | B3      |
| R 1125 | CHIP RES.   | 180   | 1/16W | 5%   | RMC1/16 181JATP | J24185181 |       | 1-   | A    | E2      |
| R 1126 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |       | 1-   | B    | c2      |
| R 1127 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | b3      |
| R 1128 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-   | B    | b3      |
| R 1129 | CHIP RES.   | 470k  | 1/16W | 5%   | RMC1/16 474JATP | J24185474 |       | 1-   | A    | B3      |
| R 1130 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP | J24185331 |       | 1-   | A    | C1      |
| R 1131 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |       | 1-   | A    | D2      |
| R 1133 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | B    | e4      |
| R 1134 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | B    | e4      |
| R 1135 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | A    | B3      |
| R 1136 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |       | 1-   | A    | B3      |
| R 1137 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-   | A    | B3      |
| R 1138 | CHIP RES.   | 120k  | 1/16W | 1%   | RMC1/16 124FTP  | J24183124 |       | 1-   | A    | B3      |
| R 1139 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | A    | C1      |
| R 1142 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |       | 1-15 | A    | E2      |
| R 1142 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 16-  | A    | E2      |
| R 1143 | CHIP RES.   | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 |       | 1-   | A    | D2      |
| R 1144 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16 334JATP | J24185334 |       | 1-   | A    | C1      |
| R 1145 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |       | 1-   | B    | a4      |
| R 1146 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | B    | e4      |
| R 1147 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16 474FTP  | J24183474 |       | 1-   | A    | B3      |
| R 1148 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |       | 1-   | A    | D2      |
| R 1149 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16 154JATP | J24185154 |       | 1-   | A    | B3      |
| R 1150 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16 334JATP | J24185334 |       | 1-   | A    | C1      |
| R 1151 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | A    | C1      |
| R 1152 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16 474FTP  | J24183474 |       | 1-   | A    | B3      |
| R 1153 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | d3      |
| R 1154 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-   | A    | C1      |
| R 1155 | CHIP RES.   | 82k   | 1/16W | 5%   | RMC1/16 823JATP | J24185823 |       | 1-   | B    | e4      |
| R 1156 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-   | A    | B3      |
| R 1157 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16 470JATP | J24185470 |       | 1-   | A    | B2      |
| R 1158 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP | J24185332 |       | 1-   | A    | B1      |
| R 1159 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 1-   | A    | B1      |
| R 1160 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-   | B    | e4      |
| R 1161 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | e4      |
| R 1162 | CHIP RES.   | 220   | 1/16W | 5%   | RMC1/16 221JATP | J24185221 |       | 1-   | A    | B1      |
| R 1163 | CHIP RES.   | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 |       | 1-   | A    | E2      |
| R 1164 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | e2      |
| R 1165 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16 474FTP  | J24183474 |       | 1-   | A    | B3      |
| R 1166 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16 474FTP  | J24183474 |       | 1-   | A    | B3      |
| R 1167 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-   | B    | b2      |
| R 1168 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16 474FTP  | J24183474 |       | 1-   | A    | B2      |
| R 1169 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |       | 1-   | A    | B2      |
| R 1170 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16 474FTP  | J24183474 |       | 1-   | A    | B3      |
| R 1171 | CHIP RES.   | 3.9k  | 1/16W | 5%   | RMC1/16 392JATP | J24185392 |       | 1-   | A    | E1      |
| R 1172 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |       | 1-   | A    | B2      |
| R 1173 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |       | 1-   | A    | B2      |
| R 1174 | CHIP RES.   | 10    | 1/16W | 5%   | RMC1/16 100JATP | J24185100 |       | 1-   | B    | d2      |
| R 1175 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 1-   | B    | d2      |
| R 1176 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-   | B    | b1      |
| R 1177 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-   | B    | b2      |
| R 1178 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | d5      |
| R 1179 | CHIP RES.   | 1.2k  | 1/16W | 5%   | RMC1/16 122JATP | J24185122 |       | 1-   | B    | c1      |
| R 1180 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | d5      |
| R 1181 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | A    | A2      |
| R 1182 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-   | A    | A2      |
| R 1183 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-   | B    | b1      |
| R 1184 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-   | B    | b1      |
| R 1185 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | b1      |
| R 1186 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16 154JATP | J24185154 |       | 1-20 | A    | E1      |
| R 1186 | CHIP RES.   | 180k  | 1/16W | 5%   | RMC1/16 184JATP | J24185184 |       | 21-  | A    | E1      |
| R 1187 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-   | B    | d5      |
| R 1188 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |       | 1-   | A    | B2      |
| R 1189 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | A    | B3      |
| R 1190 | CHIP RES.   | 100   | 1/10W | 5%   | RMC1/10T 101J   | J24205101 |       | 1-   | A    | A1      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS.      | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|------------|------|------|---------|
| R 1191 | CHIP RES.   | 1.8k  | 1/16W | 5%   | RMC1/16 182JATP | J24185182 |            | 1-20 | B    | c1      |
| R 1191 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |            | 21-  | B    | c1      |
| R 1192 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | d5      |
| R 1193 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |            | 1-   | A    | B2      |
| R 1194 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |            | 1-   | B    | b1      |
| R 1195 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | g2      |
| R 1196 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | f1      |
| R 1197 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | g2      |
| R 1198 | CHIP RES.   | 1.8k  | 1/16W | 5%   | RMC1/16 182JATP | J24185182 |            | 1-20 | B    | c1      |
| R 1198 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 21-  | B    | c1      |
| R 1199 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |            | 1-   | A    | E1      |
| R 1200 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | b1      |
| R 1201 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-   | B    | g1      |
| R 1202 | CHIP RES.   | 680k  | 1/16W | 5%   | RMC1/16 684JATP | J24185684 |            | 1-   | A    | E1      |
| R 1203 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16 470JATP | J24185470 |            | 1-   | B    | c1      |
| R 1204 | CHIP RES.   | 18k   | 1/16W | 5%   | RMC1/16 183JATP | J24185183 |            | 1-   | A    | B2      |
| R 1205 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | A    | B2      |
| R 1207 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | A    | B1      |
| R 1209 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |            | 1-   | A    | E1      |
| R 1210 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 1-   | A    | E1      |
| R 1212 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |            | 1-   | B    | d1      |
| R 1214 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | A    | D1      |
| R 1215 | CHIP RES.   | 12k   | 1/16W | 5%   | RMC1/16 123JATP | J24185123 |            | 1-   | A    | D1      |
| R 1216 | CHIP RES.   | 18k   | 1/16W | 5%   | RMC1/16 183JATP | J24185183 |            | 1-   | A    | D1      |
| R 1217 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | A    | D2      |
| R 1219 | CHIP RES.   | 820   | 1/16W | 5%   | RMC1/16 821JATP | J24185821 |            | 1-   | A    | B1      |
| R 1220 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | d1      |
| R 1221 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |            | 1-   | B    | d1      |
| R 1222 | CHIP RES.   | 27k   | 1/16W | 5%   | RMC1/16 273JATP | J24185273 |            | 1-   | A    | D1      |
| R 1223 | CHIP RES.   | 820   | 1/16W | 5%   | RMC1/16 821JATP | J24185821 |            | 1-   | A    | B1      |
| R 1224 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |            | 1-   | B    | g5      |
| R 1225 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |            | 1-   | B    | f4      |
| R 1226 | CHIP RES.   | 560   | 1/16W | 5%   | RMC1/16 561JATP | J24185561 |            | 1-   | A    | F2      |
| R 1227 | CHIP RES.   | 180   | 1/16W | 5%   | RMC1/16 181JATP | J24185181 |            | 1-   | A    | F4      |
| R 1228 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |            | 1-   | A    | F4      |
| R 1229 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | b2      |
| R 1230 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 1-   | B    | b2      |
| R 1231 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 1-   | B    | b2      |
| R 1232 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | a2      |
| R 1233 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-18 | B    | g4      |
| R 1233 | CHIP RES.   | 470k  | 1/16W | 5%   | RMC1/16 474JATP | J24185474 |            | 19-  | B    | g4      |
| R 1234 | CHIP RES.   | 220k  | 1/16W | 1%   | RMC1/16 224FTP  | J24183224 |            | 1-   | A    | G1      |
| R 1235 | CHIP RES.   | 220k  | 1/16W | 1%   | RMC1/16 224FTP  | J24183224 |            | 1-   | A    | G1      |
| R 1236 | CHIP RES.   | 1.8k  | 1/16W | 5%   | RMC1/16 182JATP | J24185182 |            | 1-   | A    | F2      |
| R 1237 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |            | 1-   | B    | g5      |
| R 1238 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |            | 1-   | B    | g4      |
| R 1239 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |            | 1-   | B    | g4      |
| R 1240 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |            | 1-   | B    | g4      |
| R 1241 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |            | 1-   | B    | b2      |
| R 1242 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |            | 1-   | B    | a2      |
| R 1243 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |            | 1-   | A    | F2      |
| R 1244 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16 153JATP | J24185153 |            | 1-   | A    | A1      |
| R 1245 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | b2      |
| R 1246 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |            | 1-   | B    | g4      |
| R 1247 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | b2      |
| R 1248 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | a2      |
| R 1249 | CHIP RES.   | 2.7k  | 1/16W | 5%   | RMC1/16 272JATP | J24185272 |            | 1-   | B    | g4      |
| R 1250 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | A    | G1      |
| R 1251 | CHIP RES.   | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 |            | 1-4  | A    | A1      |
| R 1251 | CHIP RES.   | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 | EXP VER. C | 5-   | A    | A1      |
| R 1251 | CHIP RES.   | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 | VER. A     | 24-  | A    | A1      |
| R 1251 | CHIP RES.   | 390   | 1/16W | 5%   | RMC1/16 391JATP | J24185391 | VER. A     | 29-  | A    | A1      |
| R 1251 | CHIP RES.   | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 | VTX VER. C | 5-   | A    | A1      |
| R 1252 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |            | 1-4  | A    | A1      |
| R 1252 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 | EXP VER. C | 5-   | A    | A1      |
| R 1252 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 | VER. A     | 24-  | A    | A1      |
| R 1252 | CHIP RES.   | 12    | 1/16W | 5%   | RMC1/16 120JATP | J24185120 | VER. A     | 29-  | A    | A1      |
| R 1252 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 | VTX VER. C | 5-   | A    | A1      |
| R 1253 | CHIP RES.   | 18k   | 1/16W | 5%   | RMC1/16 183JATP | J24185183 |            | 1-   | A    | G2      |
| R 1254 | CHIP RES.   | 12k   | 1/16W | 5%   | RMC1/16 123JATP | J24185123 |            | 1-   | A    | G1      |
| R 1255 | CHIP RES.   | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 |            | 1-4  | A    | A1      |
| R 1255 | CHIP RES.   | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 | EXP VER. C | 5-   | A    | A1      |
| R 1255 | CHIP RES.   | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 | VER. A     | 24-  | A    | A1      |



# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS.      | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|------------|------|------|---------|
| R 1255 | CHIP RES.   | 390   | 1/16W | 5%   | RMC1/16 391JATP | J24185391 | VER. A     | 29-  | A    | A1      |
| R 1255 | CHIP RES.   | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 | VTX VER. C | 5-   | A    | A1      |
| R 1256 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |            | 1-   | A    | F2      |
| R 1257 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |            | 1-   | A    | A4      |
| R 1258 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |            | 1-   | A    | A4      |
| R 1259 | CHIP RES.   | 56    | 1/16W | 5%   | RMC1/16 560JATP | J24185560 |            | 1-   | A    | G2      |
| R 1260 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-   | A    | A3      |
| R 1261 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |            | 1-   | A    | E2      |
| R 1262 | CHIP RES.   | 10    | 1/16W | 5%   | RMC1/16 100JATP | J24185100 |            | 1-   | A    | E2      |
| R 1263 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | A    | F2      |
| R 1265 | CHIP RES.   | 220   | 1/16W | 5%   | RMC1/16 221JATP | J24185221 |            | 1-   | A    | G2      |
| R 1266 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16 222FTP  | J24183222 |            | 1-   | A    | B4      |
| R 1267 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-   | A    | F2      |
| R 1268 | CHIP RES.   | 1.8k  | 1/16W | 1%   | RMC1/16 182FTP  | J24183182 |            | 1-   | A    | A3      |
| R 1269 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-   | A    | A4      |
| R 1270 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | A    | G3      |
| R 1271 | CHIP RES.   | 180   | 1/16W | 5%   | RMC1/16 181JATP | J24185181 |            | 1-   | A    | F3      |
| R 1272 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |            | 1-   | A    | F3      |
| R 1273 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 1-   | B    | a3      |
| R 1274 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |            | 1-   | A    | F2      |
| R 1276 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | A    | C1      |
| R 1277 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-   | A    | C2      |
| R 1278 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-   | A    | F5      |
| R 1279 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | d5      |
| R 1280 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | A    | G2      |
| R 1281 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16 153JATP | J24185153 |            | 1-27 | B    | f3      |
| R 1281 | CHIP RES.   | 1.5k  | 1/16W | 5%   | RMC1/16 152JATP | J24185152 |            | 28-  | B    | f3      |
| R 1282 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | f3      |
| R 1283 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | A    | G2      |
| R 1284 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | A    | A3      |
| R 1285 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | f3      |
| R 1286 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | f3      |
| R 1287 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16 470JATP | J24185470 |            | 1-   | B    | a2      |
| R 1290 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-   | B    | b2      |
| R 1292 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | b2      |
| R 1293 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | b2      |
| R 1294 | CHIP RES.   | 2.7   | 1/10W | 5%   | RMC1/10T 2R7J   | J24205279 |            | 1-   | B    | g3      |
| R 1295 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 1-   | A    | F4      |
| R 1296 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-27 | B    | f2      |
| R 1296 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 28-  | B    | f2      |
| R 1298 | CHIP RES.   | 4.7   | 1W    | 5%   | RMC1 4R7JTE     | J24305479 |            | 1-   | B    | g4      |
| R 1299 | CHIP RES.   | 4.7   | 1W    | 5%   | RMC1 4R7JTE     | J24305479 |            | 1-   | B    | g4      |
| R 1300 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-   | B    | a2      |
| R 1301 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-   | A    | G2      |
| R 1302 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-   | A    | G2      |
| R 1303 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-   | A    | G2      |
| R 1304 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | b2      |
| R 1305 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP | J24185332 |            | 1-   | A    | F4      |
| R 1306 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |            | 1-   | A    | F3      |
| R 1307 | CHIP RES.   | 18k   | 1/16W | 5%   | RMC1/16 183JATP | J24185183 |            | 1-   | A    | B4      |
| R 1308 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-   | B    | f3      |
| R 1309 | CHIP RES.   | 270   | 1/10W | 5%   | RMC1/10T 271J   | J24205271 |            | 1-   | B    | g3      |
| R 1310 | CHIP RES.   | 220   | 1/16W | 5%   | RMC1/16 221JATP | J24185221 |            | 1-   | A    | F3      |
| R 1311 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-   | B    | f3      |
| R 1312 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | b3      |
| R 1313 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-   | B    | f3      |
| R 1317 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | b3      |
| R 1319 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |            | 1-   | A    | B4      |
| R 1320 | CHIP RES.   | 1     | 1/10W | 5%   | RMC1/10T 1R0J   | J24205010 |            | 1-   | B    | g3      |
| R 1324 | CHIP RES.   | 10    | 1/16W | 5%   | RMC1/16 100JATP | J24185100 |            | 1-   | A    | E2      |
| R 1325 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |            | 1-   | A    | E2      |
| R 1326 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |            | 1-   | A    | F3      |
| R 1327 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | f3      |
| R 1328 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | f3      |
| R 1329 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | f3      |
| R 1330 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-   | B    | f3      |
| R 1331 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |            | 1-   | A    | F3      |
| R 1332 | CHIP RES.   | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |            | 1-   | A    | F3      |
| R 1333 | CHIP RES.   | 0     | 1W    | 5%   | RMC1 JPATE      | J24305000 |            | 1-   | A    | A4      |
| R 1334 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |            | 1-   | A    | B4      |
| R 1335 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-   | B    | d5      |
| R 1336 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |            | 1-   | B    | b2      |
| R 1337 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16 222FTP  | J24183222 |            | 1-   | A    | B4      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION      | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS.      | LOT   | SIDE | LAY ADR |
|--------|------------------|-------|-------|------|-----------------|-----------|------------|-------|------|---------|
| R 1338 | CHIP RES.        | 0     | 1/10W | 5%   | RMC1/10T 000J   | J24205000 |            | 1-    | B    | e5      |
| R 1339 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-    | B    | f4      |
| R 1340 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-    | B    | e4      |
| R 1343 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-    | B    | f4      |
| R 1344 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-    | B    | f4      |
| R 1345 | CHIP RES.        | 120k  | 1/16W | 1%   | RMC1/16 124FTP  | J24183124 |            | 1-    | A    | C5      |
| R 1346 | CHIP RES.        | 120k  | 1/16W | 1%   | RMC1/16 124FTP  | J24183124 |            | 1-    | A    | C5      |
| R 1347 | CHIP RES.        | 120k  | 1/16W | 1%   | RMC1/16 124FTP  | J24183124 |            | 1-    | A    | C5      |
| R 1348 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-    | B    | f3      |
| R 1350 | CHIP RES.        | 470   | 1/16W | 5%   | RMC1/16 471JATP | J24185471 |            | 1-    | B    | c3      |
| R 1351 | CHIP RES.        | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 1-    | A    | C2      |
| R 1352 | CHIP RES.        | 470   | 1/16W | 5%   | RMC1/16 471JATP | J24185471 |            | 1-    | A    | A1      |
| R 1353 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-    | B    | d5      |
| R 1354 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-    | A    | F5      |
| R 1355 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-    | B    | b5      |
| R 1356 | CHIP RES.        | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |            | 1-    | B    | c5      |
| R 1358 | CHIP RES.        | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-    | B    | c5      |
| R 1359 | CHIP RES.        | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP | J24185332 |            | 1-    | A    | F5      |
| R 1360 | CHIP RES.        | 2.7k  | 1/16W | 5%   | RMC1/16 272JATP | J24185272 |            | 1-    | A    | F5      |
| R 1361 | CHIP RES.        | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 1-    | A    | F5      |
| R 1362 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 |            | 1-4   | A    | F5      |
| R 1362 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 | EXP VER. C | 5-    | A    | F5      |
| R 1362 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 | VER. A     | 24-   | A    | F5      |
| R 1362 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 | VTX VER. C | 5-    | A    | F5      |
| R 1363 | CHIP RES.        | 47    | 1/16W | 5%   | RMC1/16 470JATP | J24185470 |            | 1-    | A    | F5      |
| R 1364 | CHIP RES.        | 220   | 1/16W | 5%   | RMC1/16 221JATP | J24185221 |            | 1-    | A    | F5      |
| R 1365 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 |            | 1-4   | A    | F5      |
| R 1365 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 | EXP VER. C | 5-    | A    | F5      |
| R 1365 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 | VER. A     | 24-   | A    | F5      |
| R 1365 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 | VTX VER. C | 5-    | A    | F5      |
| R 1366 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-4   | A    | E5      |
| R 1366 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 | EXP VER. C | 5-    | A    | E5      |
| R 1366 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 | VER. A     | 24-   | A    | E5      |
| R 1366 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 | VTX VER. C | 5-    | A    | E5      |
| R 1367 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-    | B    | c5      |
| R 1368 | CHIP RES.        | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |            | 1-    | A    | E5      |
| R 1370 | CHIP RES.        | 33    | 1/16W | 5%   | RMC1/16 330JATP | J24185330 |            | 1-    | B    | c4      |
| R 1372 | CHIP RES.        | 220k  | 1/16W | 5%   | RMC1/16 224JATP | J24185224 |            | 1-    | A    | C4      |
| R 1373 | CARBON FILM RES. | 820   | 1/6W  | 5%   | RD16PJ821 820   | J01225821 |            | 1-    |      |         |
| R 1374 | CARBON FILM RES. | 2.2k  | 1/6W  | 5%   | RD16PJ222 2.2K  | J01225222 |            | 1-    |      |         |
| R 1375 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 | VER. A     | 29-   |      |         |
| R 1376 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 | VER. A     | 29-   |      |         |
| R 1501 | CHIP RES.        | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |            | 1-15  | B    | c2      |
| R 1501 | CHIP RES.        | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 16-22 | B    | c2      |
| R 1501 | CHIP RES.        | 2.7k  | 1/16W | 5%   | RMC1/16 272JATP | J24185272 |            | 23-   | B    | c2      |
| R 1502 | CHIP RES.        | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-15  | B    | d2      |
| R 1502 | CHIP RES.        | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |            | 16-22 | B    | d2      |
| R 1502 | CHIP RES.        | 2.7k  | 1/16W | 5%   | RMC1/16 272JATP | J24185272 |            | 23-   | B    | d2      |
| R 1503 | CHIP RES.        | 390   | 1/16W | 5%   | RMC1/16 391JATP | J24185391 |            | 16-22 | B    | c3      |
| R 1503 | CHIP RES.        | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |            | 23-   | B    | c3      |
| R 1504 | CHIP RES.        | 390   | 1/16W | 5%   | RMC1/16 391JATP | J24185391 |            | 16-   | B    | c3      |
| R 1505 | CHIP RES.        | 390   | 1/16W | 5%   | RMC1/16 391JATP | J24185391 |            | 16-   | B    | c3      |
| R 1507 | CHIP RES.        | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 1-    | B    | c3      |
| R 1508 | CHIP RES.        | 180   | 1/16W | 5%   | RMC1/16 181JATP | J24185181 |            | 1-15  | B    | d2      |
| R 1508 | CHIP RES.        | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 16-   | B    | d2      |
| R 1509 | CHIP RES.        | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |            | 1-    | B    | c2      |
| R 1512 | CHIP RES.        | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |            | 1-    | B    | c2      |
| R 1513 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 |            | 1-15  | B    | c2      |
| R 1513 | CHIP RES.        | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 16-   | B    | c2      |
| R 1514 | CHIP RES.        | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 16-   | B    | c2      |
| R 1515 | CHIP RES.        | 150   | 1/16W | 5%   | RMC1/16 151JATP | J24185151 |            | 1-15  | B    | c2      |
| R 1515 | CHIP RES.        | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |            | 16-   | B    | c2      |
| R 1516 | CHIP RES.        | 390   | 1/16W | 5%   | RMC1/16 391JATP | J24185391 |            | 16-   | B    | c2      |
| R 1517 | CHIP RES.        | 390   | 1/16W | 5%   | RMC1/16 391JATP | J24185391 |            | 16-   | B    | c2      |
| R 1518 | CHIP RES.        | 390   | 1/16W | 5%   | RMC1/16 391JATP | J24185391 |            | 16-22 | B    | c1      |
| R 1518 | CHIP RES.        | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |            | 23-   | B    | c1      |
| R 1519 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |            | 1-15  |      |         |
| R 1520 | CHIP RES.        | 0     | 1/10W | 5%   | RMC1/10T 000J   | J24205000 |            | 1-15  |      |         |
| R 1521 | CHIP RES.        | 0     | 1/10W | 5%   | RMC1/10T 000J   | J24205000 |            | 1-15  |      |         |
| T 1001 | COIL WIDE-TRANS. |       |       |      | 3-317611        | L0022478  |            | 1-    | A    | E4      |
| T 1002 | COIL WIDE-TRANS. |       |       |      | 3-317610        | L0022479  |            | 1-    | A    | E4      |
| T 1003 | COIL WIDE-TRANS. |       |       |      | 3-317611        | L0022478  |            | 1-    | A    | E3      |
| TC1001 | TRIMMER CAP.     | 10pF  |       |      | TC13C100C-TP03  | K91000255 |            | 1-    | A    | G4      |

# MAIN Unit

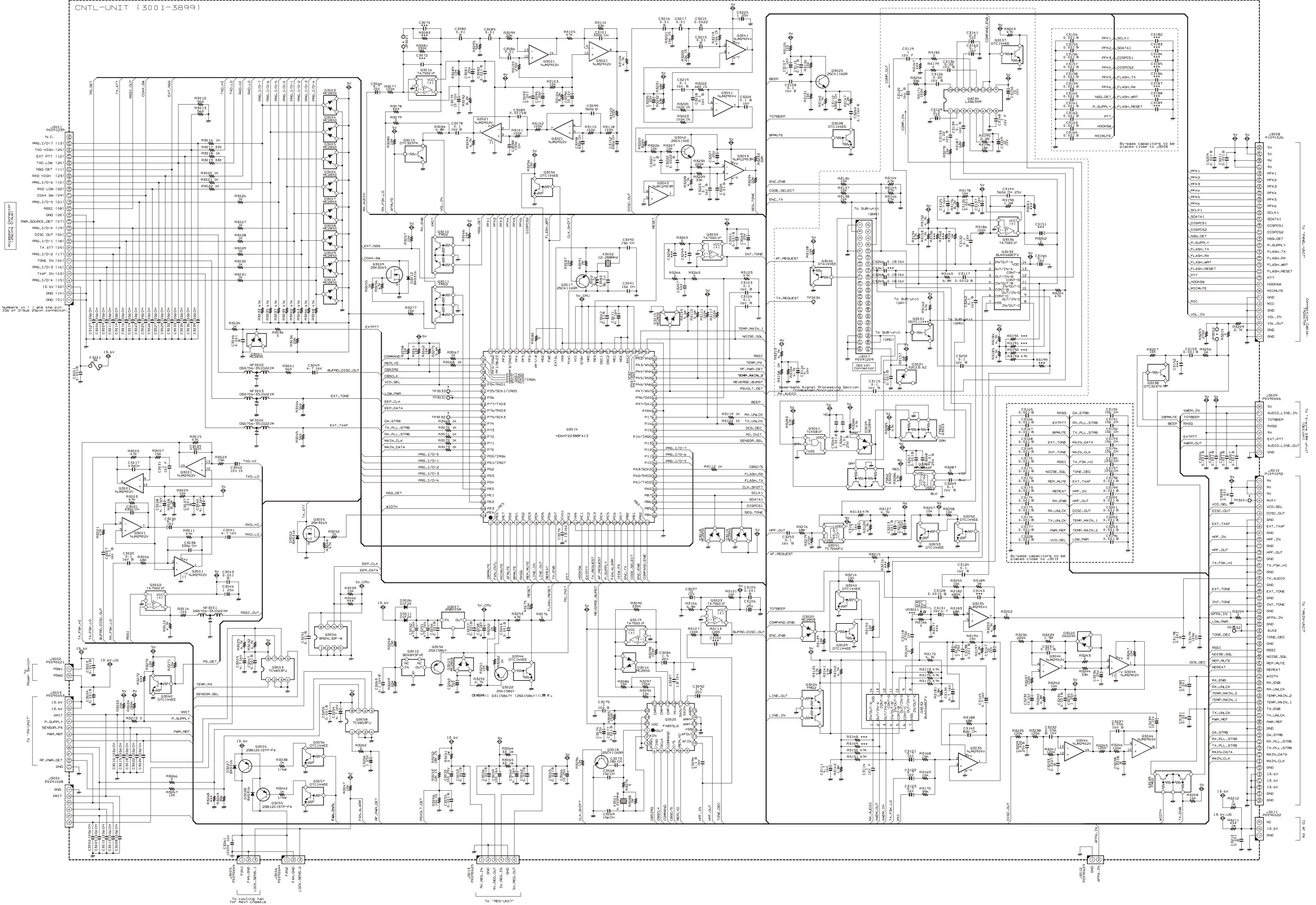
## Parts List

| REF    | DESCRIPTION    | VALUE     | V/W | TOL. | MFR'S DESIG         | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|----------------|-----------|-----|------|---------------------|-----------|-------|------|------|---------|
| TC1002 | TRIMMER CAP.   | 10pF      |     |      | TC13C100C-TP03      | K91000255 |       | 1-   | A    | G3      |
| TH1001 | THERMISTOR     |           |     |      | 157-502-53002TP     | G9090049  |       | 1-   | A    | D4      |
| TH1002 | THERMISTOR     |           |     |      | NTCCM20123SH223JCT  | G9090106  |       | 1-   | A    | C3      |
| TH1003 | THERMISTOR     |           |     |      | 157-502-53002TP     | G9090049  |       | 1-   | A    | B4      |
| TP1001 | TERMINAL       |           |     |      | TP-K IPS-1136       | Q5000050  |       | 1-   | A    | D2      |
| TP1003 | TERMINAL       |           |     |      | TP-K IPS-1136       | Q5000050  |       | 1-   | A    | F2      |
| X 1001 | XTAL OSC       | 14.4MHz   |     |      | TTS12V 14.4MHZ      | H9500650  |       | 1-15 | A    | C3      |
| X 1001 | TCXO           | 14.4MHz   |     |      | TTS12VSA-A3 14.4MHZ | H9500940  |       | 16-  | A    | C3      |
| X 1002 | XTAL TSS-6035B | 72.895MHz |     |      | 72.895MHZ           | H0103290  |       | 1-   | A    | E2      |
| X 1003 | XTAL OSC       | 14.4MHz   |     |      | TTS12V 14.4MHZ      | H9500650  |       | 1-   | A    | G1      |
| XF1001 | XTAL FILTER    |           |     |      | TM7050A MF73P       | H1102363  |       | 1-10 | A    | D3      |
| XF1001 | XTAL FILTER    |           |     |      | TM7050A MF73P2      | H1102381  |       | 11-  | A    | D3      |
| XF1002 | XTAL FILTER    |           |     |      | TM7050A MF73P       | H1102363  |       | 1-   | A    | D2      |
| XF1501 | XTAL FILTER    |           |     |      | TM7050A MF73P       | H1102363  |       | 1-15 | B    | c3      |
| XF1501 | XTAL FILTER    |           |     |      | MFT73M 73.35MHZ     | H1102391  |       | 16-  | B    | c3      |
| XF1502 | XTAL FILTER    |           |     |      | TM7050A MF73P       | H1102363  |       | 1-15 | B    | c2      |
| XF1502 | XTAL FILTER    |           |     |      | MFT73M 73.35MHZ     | H1102391  |       | 16-  | B    | c2      |
|        | SHIELD CASE    |           |     |      | VCO                 | RA0014200 |       | 1-   |      |         |
|        | SHIELD CASE    |           |     |      | (A)                 | R0151950  |       | 1-   |      |         |
|        | SHIELD CASE    |           |     |      | (A)                 | RA0073900 |       | 1-   |      |         |
|        | SHIELD CASE    |           |     |      |                     | RA0073900 |       | 1-   |      |         |
|        | SHIELD CASE    |           |     |      |                     | RA0498300 |       | 1-   |      |         |
|        | SHIELD CASE    |           |     |      | (MIXER)             | RA0014300 |       | 1-   |      |         |
|        | SHIELD CASE    |           |     |      |                     | RA0439400 |       | 1-   |      |         |
|        | LEAF SPRING    |           |     |      |                     | R0140031  |       | 1-   |      |         |

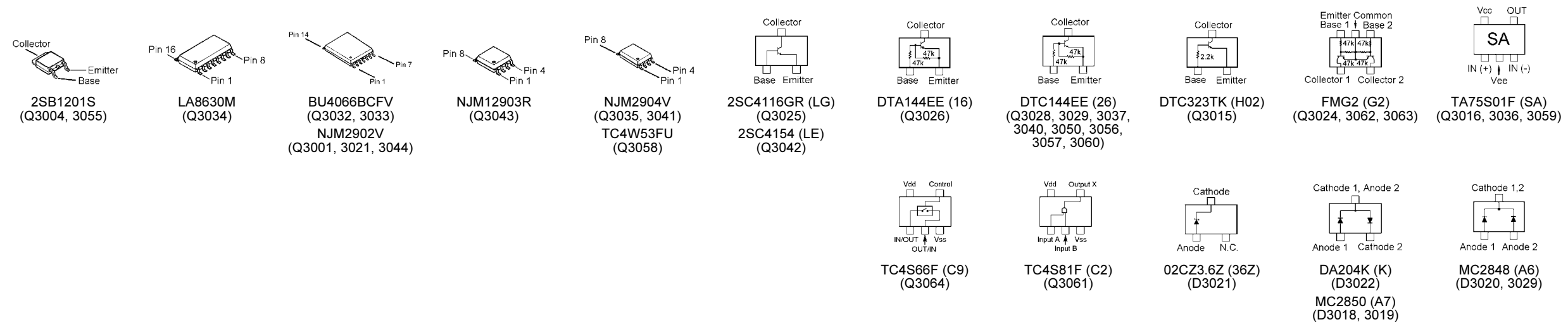
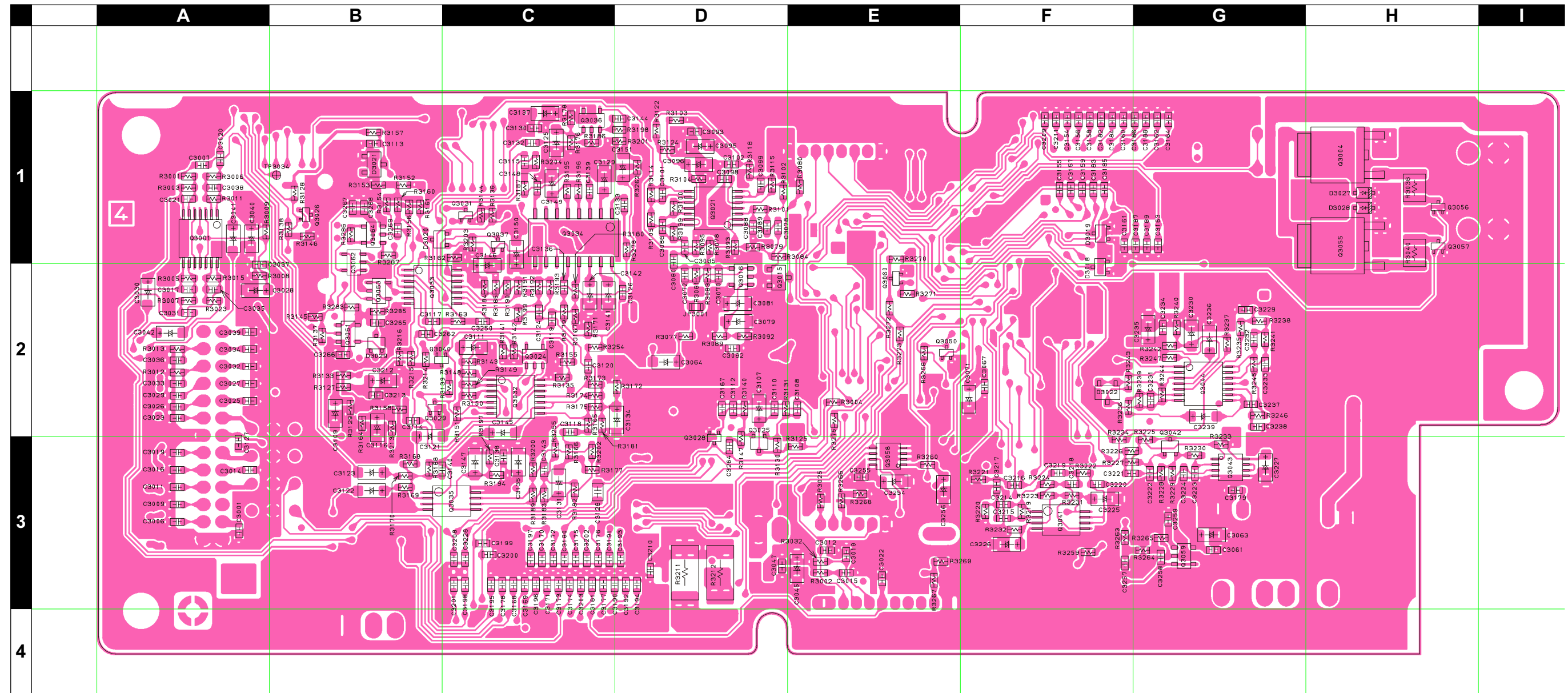
*MAIN Unit*

*Note:*

CNTL-UNIT (3001-3899)

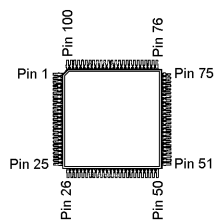
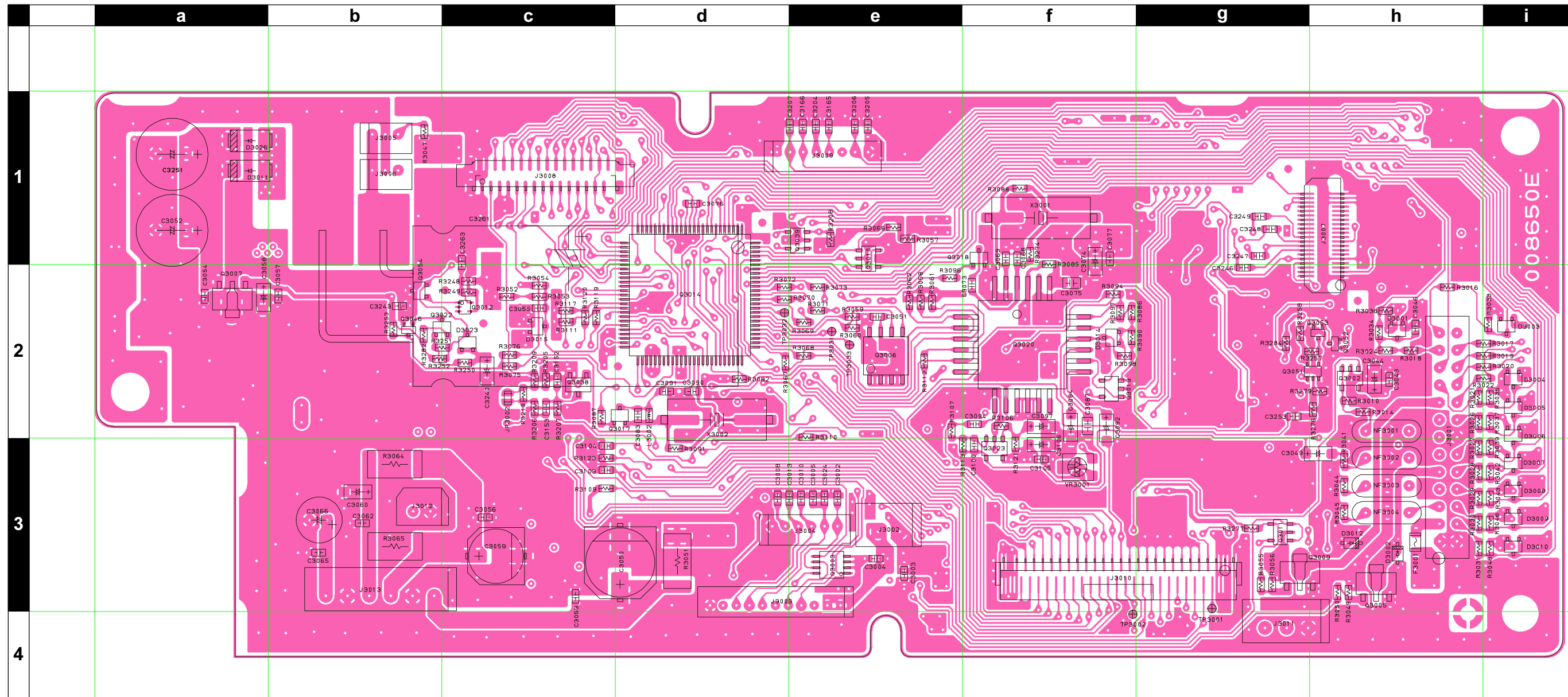




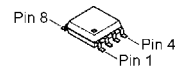


# CNTL Unit

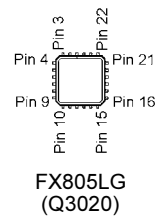
## Parts Layout (Side B)



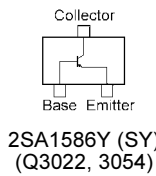
HD64F2238BFA  
(Q3014)



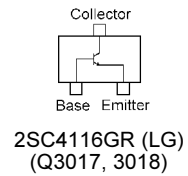
BR24L32F  
(Q3006)  
TC4W53FU  
(Q3003)



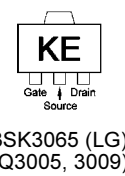
FX805LG  
(Q3020)



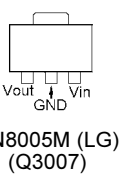
2SA1586Y (SY)  
(Q3022, 3054)



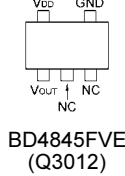
2SC4116GR (LG)  
(Q3017, 3018)



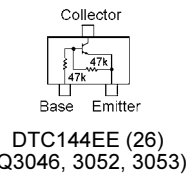
3SK3065 (LG)  
(Q3005, 3009)



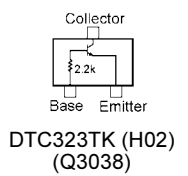
AN8005M (LG)  
(Q3007)



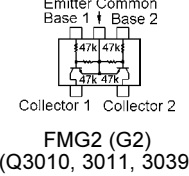
BD4845FVE  
(Q3012)



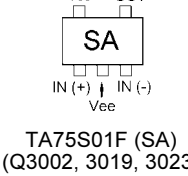
DTC144EE (26)  
(Q3046, 3052, 3053)



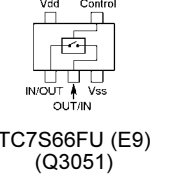
DTC323TK (H02)  
(Q3038)



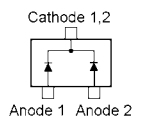
FMG2 (G2)  
(Q3010, 3011, 3039)



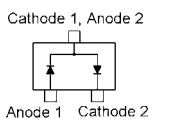
TA75S01F (SA)  
(Q3002, 3019, 3023)



TC7S66FU (E9)  
(Q3051)



MC2848 (A6)  
(D3023)



MC2850 (A7)  
(D3001, 3003, 3004,  
3005, 3006, 3007,  
3008, 3009, 3010,  
3014, 3015)



# CNTL Unit

## Parts List

| REF                   | DESCRIPTION     | VALUE   | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|-----------------------|-----------------|---------|-----|------|--------------------|-----------|-------|-----|------|---------|
| PCB with Components   |                 |         |     |      |                    | CB2123001 |       |     |      |         |
| Printed Circuit Board |                 |         |     |      |                    | FR008650E |       | 1-  |      |         |
| C 3001                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | A3      |
| C 3002                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | B    | e3      |
| C 3003                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e3      |
| C 3004                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e3      |
| C 3005                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | B    | e3      |
| C 3006                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A3      |
| C 3007                | CHIP CAP.       | 0.1uF   | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | A1      |
| C 3008                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | B    | d3      |
| C 3009                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A3      |
| C 3010                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | B    | e3      |
| C 3011                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A3      |
| C 3012                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | E3      |
| C 3013                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | B    | d3      |
| C 3014                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A3      |
| C 3015                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | E3      |
| C 3016                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A3      |
| C 3017                | CHIP CAP.       | 47pF    | 50V | CH   | GRM1882C1H470JA01D | K22174227 |       | 1-  | A    | A2      |
| C 3018                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | E3      |
| C 3019                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A3      |
| C 3020                | CHIP CAP.       | 0.1uF   | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | A1      |
| C 3021                | CHIP CAP.       | 330pF   | 50V | CH   | GRM1882C1H331JA01D | K22174253 |       | 1-  | A    | A1      |
| C 3022                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | E3      |
| C 3023                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3024                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | B    | e3      |
| C 3025                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3026                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3027                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3028                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | A2      |
| C 3029                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3030                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | A2      |
| C 3031                | CHIP CAP.       | 1uF     | 10V | F    | GRM188F11A105ZA01D | K22105001 |       | 1-  | A    | A2      |
| C 3032                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3033                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3034                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3035                | CHIP CAP.       | 47pF    | 50V | CH   | GRM1882C1H470JA01D | K22174227 |       | 1-  | A    | A2      |
| C 3036                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3037                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | A1      |
| C 3038                | CHIP CAP.       | 330pF   | 50V | CH   | GRM1882C1H331JA01D | K22174253 |       | 1-  | A    | A1      |
| C 3039                | CHIP CAP.       | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A2      |
| C 3040                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | A1      |
| C 3041                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | A1      |
| C 3042                | CHIP TA.CAP.    | 10uF    | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | A2      |
| C 3043                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | h2      |
| C 3044                | CHIP TA.CAP.    | 1uF     | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | B    | h2      |
| C 3045                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | E3      |
| C 3046                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | h2      |
| C 3047                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | D3      |
| C 3049                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | B    | h3      |
| C 3050                | AL.ELECTRO.CAP. | 100uF   | 25V |      | ECEV1EA101UP       | K48140013 |       | 1-  | B    | d3      |
| C 3051                | CHIP CAP.       | 0.01uF  | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | B    | e2      |
| C 3052                | AL.ELECTRO.CAP. | 470uF   | 16V |      | RE3-16V471MG3#     | K40129066 |       | 1-  | B    | a1      |
| C 3053                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | c3      |
| C 3054                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | a2      |
| C 3055                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | c2      |
| C 3056                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | c3      |
| C 3057                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | b2      |
| C 3058                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | B    | a2      |
| C 3059                | AL.ELECTRO.CAP. | 100uF   | 16V |      | ECEV1CA101WP       | K48120012 |       | 1-  | B    | c3      |
| C 3060                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | B    | b3      |
| C 3061                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | G3      |
| C 3062                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | b3      |
| C 3063                | CHIP TA.CAP.    | 1uF     | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | G3      |
| C 3064                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | D2      |
| C 3065                | CHIP CAP.       | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | b3      |
| C 3066                | AL.ELECTRO.CAP. | 10uF    | 25V |      | RC2-25V100ME1#     | K40149012 |       | 1-  | B    | b3      |
| C 3067                | CHIP CAP.       | 0.01uF  | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F2      |
| C 3068                | CHIP CAP.       | 15pF    | 50V | CH   | GRM1882C1H150JA01D | K22174215 |       | 1-  | B    | f1      |
| C 3069                | CHIP CAP.       | 15pF    | 50V | CH   | GRM1882C1H150JA01D | K22174215 |       | 1-  | B    | f1      |
| C 3071                | CHIP TA.CAP.    | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | F2      |
| C 3073                | CHIP CAP.       | 18pF    | 50V | CH   | GRM1882C1H180JA01D | K22174217 |       | 1-  | B    | f2      |
| C 3074                | CHIP TA.CAP.    | 1uF     | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | B    | f1      |

# CNTL Unit

## Parts List

| REF    | DESCRIPTION  | VALUE    | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|--------------|----------|-----|------|--------------------|-----------|-------|-----|------|---------|
| C 3075 | CHIP CAP.    | 1uF      | 10V | B    | GRM40B105K10PT     | K22100802 |       | 1-  | B    | f2      |
| C 3076 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | d1      |
| C 3077 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | f1      |
| C 3078 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | D1      |
| C 3079 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | D2      |
| C 3080 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | D1      |
| C 3081 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | D2      |
| C 3082 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | D2      |
| C 3083 | CHIP CAP.    | 3pF      | 50V | CJ   | GRM1883C1H3R0CZ01D | K22174204 |       | 1-  | B    | d2      |
| C 3084 | CHIP TA.CAP. | 1.5uF    | 20V |      | TEMSVA1D155M-8R    | K78130013 |       | 1-  | B    | f2      |
| C 3085 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | D1      |
| C 3086 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | D1      |
| C 3087 | CHIP CAP.    | 1uF      | 10V | B    | GRM40B105K10PT     | K22100802 |       | 1-  | B    | f2      |
| C 3088 | CHIP CAP.    | 150pF    | 50V | CH   | GRM1882C1H151JA01D | K22174239 |       | 1-  | A    | D1      |
| C 3089 | CHIP CAP.    | 0.0015uF | 50V | B    | GRM188B11H152KA01D | K22174827 |       | 1-  | A    | D1      |
| C 3090 | CHIP CAP.    | 15pF     | 50V | CH   | GRM1882C1H150JA01D | K22174215 |       | 1-  | B    | d2      |
| C 3091 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | B    | d2      |
| C 3092 | CHIP TA.CAP. | 1.5uF    | 20V |      | TEMSVA1D155M-8R    | K78130013 |       | 1-  | B    | f2      |
| C 3093 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | D1      |
| C 3094 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | f2      |
| C 3095 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | D1      |
| C 3096 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | D1      |
| C 3097 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | B    | f2      |
| C 3098 | CHIP CAP.    | 330pF    | 50V | CH   | GRM1882C1H331JA01D | K22174253 |       | 1-  | A    | D1      |
| C 3099 | CHIP CAP.    | 560pF    | 50V | B    | ECUV1H561KBV       | K22179611 |       | 1-  | A    | D1      |
| C 3101 | CHIP CAP.    | 330pF    | 50V | CH   | GRM1882C1H331JA01D | K22174253 |       | 1-  | A    | D1      |
| C 3102 | CHIP CAP.    | 330pF    | 50V | CH   | GRM1882C1H331JA01D | K22174253 |       | 1-  | A    | D1      |
| C 3103 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | c3      |
| C 3104 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | c3      |
| C 3105 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | f3      |
| C 3106 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | B    | f3      |
| C 3107 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | D2      |
| C 3108 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | E2      |
| C 3109 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | B2      |
| C 3110 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | D2      |
| C 3111 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | C2      |
| C 3112 | CHIP CAP.    | 330pF    | 50V | CH   | GRM1882C1H331JA01D | K22174253 |       | 1-  | A    | D2      |
| C 3113 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B1      |
| C 3114 | CHIP CAP.    | 1uF      | 10V | F    | GRM188F11A105ZA01D | K22105001 |       | 1-  | A    | B2      |
| C 3115 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | C1      |
| C 3116 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | B2      |
| C 3117 | CHIP CAP.    | 0.0012uF | 50V | B    | GRM188B11H122KA01D | K22174810 |       | 1-  | A    | B2      |
| C 3118 | CHIP CAP.    | 270pF    | 50V | CH   | GRM1882C1H271JA01D | K22174251 |       | 1-  | A    | C2      |
| C 3119 | CHIP CAP.    | 1uF      | 10V | F    | GRM188F11A105ZA01D | K22105001 |       | 1-  | A    | C2      |
| C 3120 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | C2      |
| C 3121 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | B2      |
| C 3122 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | B3      |
| C 3123 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | B3      |
| C 3124 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | C2      |
| C 3125 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | C1      |
| C 3126 | CHIP CAP.    | 0.22uF   | 10V | B    | GRM188B11A224KA01D | K22104801 |       | 1-  | A    | D2      |
| C 3127 | CHIP CAP.    | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | A3      |
| C 3128 | CHIP CAP.    | 0.0015uF | 50V | B    | GRM40B152M50PT     | K22170807 |       | 1-  | A    | C3      |
| C 3129 | CHIP TA.CAP. | 2.2uF    | 10V |      | TESVA1A225M1-8R    | K78100021 |       | 1-  | A    | C1      |
| C 3130 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C1      |
| C 3131 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | C3      |
| C 3132 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | C1      |
| C 3133 | CHIP CAP.    | 0.22uF   | 10V | B    | GRM188B11A224KA01D | K22104801 |       | 1-  | A    | D1      |
| C 3134 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | D2      |
| C 3135 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | C3      |
| C 3136 | CHIP CAP.    | 0.22uF   | 10V | B    | GRM188B11A224KA01D | K22104801 |       | 1-  | A    | C2      |
| C 3137 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | C1      |
| C 3138 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3139 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | C1      |
| C 3140 | CHIP CAP.    | 82pF     | 50V | CH   | GRM1882C1H820JA01D | K22174233 |       | 1-  | A    | B3      |
| C 3141 | CHIP TA.CAP. | 2.2uF    | 10V |      | TESVA1A225M1-8R    | K78100021 |       | 1-  | A    | C2      |
| C 3142 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | C2      |
| C 3144 | CHIP CAP.    | 560pF    | 25V | CH   | GRM39CH561J25PT    | K22144201 |       | 1-  | A    | D1      |
| C 3145 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | C2      |
| C 3146 | CHIP TA.CAP. | 4.7uF    | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | A    | C2      |
| C 3147 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | C3      |
| C 3148 | CHIP CAP.    | 1uF      | 10V | F    | GRM188F11A105ZA01D | K22105001 |       | 1-  | A    | C1      |
| C 3149 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | C1      |

# CNTL Unit

## Parts List

| REF    | DESCRIPTION  | VALUE    | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|--------------|----------|-----|------|--------------------|-----------|-------|-----|------|---------|
| C 3150 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | C1      |
| C 3153 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | c2      |
| C 3154 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3155 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3156 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3157 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3158 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3159 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3160 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3161 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3162 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | G1      |
| C 3163 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | G1      |
| C 3164 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | G1      |
| C 3165 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e1      |
| C 3166 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e1      |
| C 3167 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | D2      |
| C 3168 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3169 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3170 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3171 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3172 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3173 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3174 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3175 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3176 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3177 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3178 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3179 | CHIP CAP.    | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | G3      |
| C 3180 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3181 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3190 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | C3      |
| C 3191 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | C3      |
| C 3192 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | D3      |
| C 3193 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | D3      |
| C 3194 | CHIP CAP.    | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | D3      |
| C 3195 | CHIP CAP.    | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | C3      |
| C 3196 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3197 | CHIP CAP.    | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | C3      |
| C 3198 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3199 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3200 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3201 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3202 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3203 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3204 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e1      |
| C 3205 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e1      |
| C 3206 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e1      |
| C 3207 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | d1      |
| C 3208 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3209 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3210 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | D3      |
| C 3211 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | F1      |
| C 3212 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | B2      |
| C 3213 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B2      |
| C 3214 | CHIP CAP.    | 0.0022uF | 50V | B    | GRM188B11H222KA01D | K22174822 |       | 1-  | A    | F3      |
| C 3215 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F3      |
| C 3216 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F3      |
| C 3217 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F3      |
| C 3218 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | F3      |
| C 3219 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | F3      |
| C 3220 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | F3      |
| C 3221 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | F3      |
| C 3222 | CHIP CAP.    | 0.0022uF | 50V | B    | GRM188B11H222KA01D | K22174822 |       | 1-  | A    | G3      |
| C 3223 | CHIP CAP.    | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | G3      |
| C 3224 | CHIP CAP.    | 0.01uF   | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | G3      |
| C 3225 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | F3      |
| C 3226 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | F3      |
| C 3227 | CHIP TA.CAP. | 1uF      | 25V |      | TEMSVA1E105M-8R    | K78140013 |       | 1-  | A    | G3      |
| C 3228 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 3229 | CHIP CAP.    | 0.022uF  | 25V | B    | GRM39B223K25PT     | K22144807 |       | 1-  | A    | G2      |
| C 3230 | CHIP TA.CAP. | 10uF     | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | A    | G2      |
| C 3231 | CHIP CAP.    | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | G2      |
| C 3232 | CHIP CAP.    | 0.056uF  | 16V | B    | GRM188B11C563KA01D | K22124807 |       | 1-  | A    | G2      |

# CNTL Unit

## Parts List

| REF    | DESCRIPTION     | VALUE    | V/W  | TOL. | MFR'S DESIG          | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-----------------|----------|------|------|----------------------|-----------|-------|-----|------|---------|
| C 3233 | CHIP CAP.       | 0.0027uF | 50V  | B    | ECJ1VB1H272K         | K22179619 |       | 1-  | A    | G2      |
| C 3234 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174821 |       | 1-  | A    | G2      |
| C 3235 | CHIP TA.CAP.    | 1uF      | 25V  |      | TEMSVA1E105M-8R      | K78140013 |       | 1-  | A    | G2      |
| C 3236 | CHIP TA.CAP.    | 1uF      | 25V  |      | TEMSVA1E105M-8R      | K78140013 |       | 1-  | A    | G2      |
| C 3237 | CHIP CAP.       | 0.056uF  | 16V  | B    | GRM188B11C563KA01D   | K22124807 |       | 1-  | A    | G2      |
| C 3238 | CHIP CAP.       | 0.0018uF | 50V  | B    | ECJ1VB1H182K         | K22179617 |       | 1-  | A    | G2      |
| C 3239 | CHIP TA.CAP.    | 10uF     | 10V  |      | TEMSVA1A106M-8R      | K78100028 |       | 1-  | A    | G2      |
| C 3240 | CHIP TA.CAP.    | 2.2uF    | 10V  |      | TESVA1A225M1-8R      | K78100021 |       | 1-  | B    | c2      |
| C 3243 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174821 |       | 1-  | B    | b2      |
| C 3246 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | B    | g2      |
| C 3248 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | B    | g1      |
| C 3249 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | B    | g1      |
| C 3250 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | A    | C2      |
| C 3251 | AL.ELECTRO.CAP. | 470uF    | 16V  |      | RE3-16V471MG3#       | K40129066 |       | 1-  | B    | a1      |
| C 3253 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | B    | g2      |
| C 3254 | CHIP TA.CAP.    | 4.7uF    | 16V  |      | TEMSVA1C475M-8R      | K78120031 |       | 1-  | A    | E3      |
| C 3255 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174821 |       | 1-  | A    | E3      |
| C 3256 | CHIP TA.CAP.    | 1uF      | 25V  |      | TEMSVA1E105M-8R      | K78140013 |       | 1-  | A    | E3      |
| C 3261 | AL.ELECTRO.CAP. | 10000uF  | 16V  |      | RE3-16V103MK8#       | K40129098 |       | 1-  | B    | b1      |
| C 3262 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | A    | B2      |
| C 3263 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | B    | c1      |
| C 3264 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | A    | D3      |
| C 3265 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174809 |       | 1-  | A    | B2      |
| C 3266 | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM39B103M25PT       | K22144802 |       | 1-  | A    | B2      |
| C 3267 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174809 |       | 1-  | A    | B1      |
| C 3268 | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM39B103M25PT       | K22144802 |       | 1-  | A    | B1      |
| C 3269 | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | A    | B1      |
| C 3270 | CHIP CAP.       | 1uF      | 6.3V | B    | GRM188B10J105KA01D   | K22084801 |       | 1-  |      |         |
| D 3001 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | h2      |
| D 3002 | DIODE           |          |      |      | BAS316               | G2070716  |       | 1-  | B    | h3      |
| D 3003 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | i2      |
| D 3004 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | i2      |
| D 3005 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | i2      |
| D 3006 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | i2      |
| D 3007 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | i3      |
| D 3008 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | i3      |
| D 3009 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | i3      |
| D 3010 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | i3      |
| D 3011 | DIODE           |          |      |      | D1F20-4063           | G2070474  |       | 1-  | B    | a1      |
| D 3012 | DIODE           |          |      |      | BAS316               | G2070716  |       | 1-  | B    | h3      |
| D 3014 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | f2      |
| D 3015 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | B    | c2      |
| D 3018 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | A    | F2      |
| D 3019 | DIODE           |          |      |      | MC2850-T11-1         | G2070704  |       | 1-  | A    | F1      |
| D 3020 | DIODE           |          |      |      | MC2848-T11-1         | G2070694  |       | 1-  | A    | B1      |
| D 3021 | DIODE           |          |      |      | 02CZ3.6Z TE85R       | G2070164  |       | 1-  | A    | B1      |
| D 3022 | DIODE           |          |      |      | DA204K T146          | G2070388  |       | 1-  | A    | F2      |
| D 3023 | DIODE           |          |      |      | MC2848-T11-1         | G2070694  |       | 1-  | B    | c2      |
| D 3026 | DIODE           |          |      |      | D1F20-4063           | G2070474  |       | 1-  | B    | a1      |
| D 3027 | DIODE           |          |      |      | BAS316               | G2070716  |       | 1-  | A    | H1      |
| D 3028 | DIODE           |          |      |      | BAS316               | G2070716  |       | 1-  | A    | H1      |
| D 3029 | DIODE           |          |      |      | MC2848-T11-1         | G2070694  |       | 1-  | A    | B2      |
| F 3001 | CHIP FUSE       | 3A       |      |      | F0805B3R00FWTR       | Q0000082  |       | 1-  | B    | h3      |
| J 3001 | CONNECTOR       |          |      |      | B26B-PHDSS           | P0091239  |       | 1-  | B    | h3      |
| J 3002 | CONNECTOR       |          |      |      | SC25-02WS            | P0090621  |       | 1-  | B    | e3      |
| J 3003 | CONNECTOR       |          |      |      | IL-Y-11P-S15T2-E     | P0090653  |       | 1-  | B    | e3      |
| J 3004 | CONNECTOR       |          |      |      | IL-Y-6P-S15T2-EF     | P0091028  |       | 1-  | B    | d3      |
| J 3005 | CONNECTOR       |          |      |      | IL-Y-3P-S15T2-EF     | P0090644  |       | 1-  | B    | b1      |
| J 3006 | CONNECTOR       |          |      |      | IL-Y-3P-S15T2-EF     | P0090644  |       | 1-  | B    | b1      |
| J 3007 | CONNECTOR       |          |      |      | AXK6S40535P          | P0091209  |       | 1-  | B    | h1      |
| J 3008 | CONNECTOR       |          |      |      | IL-FPR-30S-VF-E1500  | P1091026  |       | 1-  | B    | c1      |
| J 3009 | CONNECTOR       |          |      |      | IL-Y-8P-S15T2-EF     | P0090646  |       | 1-  | B    | d1      |
| J 3010 | CONNECTOR       |          |      |      | FH12-50S-0.5SV       | P1091092  |       | 1-  | B    | f3      |
| J 3011 | CONNECTOR       |          |      |      | SC25-03WS            | P0090622  |       | 1-  | B    | g4      |
| J 3012 | CONNECTOR       |          |      |      | SB20-02WS            | P0090609  |       | 1-  | B    | b3      |
| J 3013 | CONNECTOR       |          |      |      | SC25-06WS            | P0090625  |       | 1-  | B    | b3      |
| JP3002 | WIRE ASSY       |          |      |      | GRN 50 2/2           | T50505000 |       | 2-  | B    | c2      |
| JP3003 | WIRE ASSY       |          |      |      | GRN 50 2/2           | T50505000 |       | 1-  |      |         |
| L 3002 | M.RFC           | 2.7uH    |      |      | LK1608 2R7K-T        | L1690848  |       | 1-  | B    | d2      |
| NF3001 | EMI FILTER      |          |      |      | DSS706-351D221M25-50 | Q9000642  |       | 1-  | B    | h2      |
| NF3002 | EMI FILTER      |          |      |      | DSS706-351D221M25-50 | Q9000642  |       | 1-  | B    | h3      |
| NF3003 | EMI FILTER      |          |      |      | DSS706-351D221M25-50 | Q9000642  |       | 1-  | B    | h3      |
| NF3004 | EMI FILTER      |          |      |      | DSS706-351D221M25-50 | Q9000642  |       | 1-  | B    | h3      |

Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG           | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------------|-----------|-------|------|------|---------|
| P 3001 | WIRE ASSY   |       |       |      | BLK 80 FV2-M4/(5)     | T9318204  |       | 1-   |      |         |
| Q 3001 | IC          |       |       |      | NJM2902V-TE1          | G1091679  |       | 1-   | A    | A1      |
| Q 3002 | IC          |       |       |      | TA75S01F TE85R        | G1091593  |       | 1-   | B    | h2      |
| Q 3003 | IC          |       |       |      | TC4W53FU TE12L        | G1091675  |       | 1-   | B    | e3      |
| Q 3004 | TRANSISTOR  |       |       |      | 2SB1201S-TL           | G3070195  |       | 1-   | A    | H1      |
| Q 3005 | FET         |       |       |      | 2SK3065 T100          | G3830657  |       | 1-   | B    | h3      |
| Q 3006 | IC          |       |       |      | BR24L32F-WE2          | G1093913  |       | 1-   | B    | e2      |
| Q 3007 | IC          |       |       |      | AN8005M-(E1)          | G1091454  |       | 1-   | B    | a2      |
| Q 3009 | FET         |       |       |      | 2SK3065 T100          | G3830657  |       | 1-   | B    | g3      |
| Q 3010 | TRANSISTOR  |       |       |      | FMG2 T148             | G3070015  |       | 1-   | B    | e1      |
| Q 3011 | TRANSISTOR  |       |       |      | FMG2 T148             | G3070015  |       | 1-   | B    | g3      |
| Q 3012 | IC          |       |       |      | BD4845FVE-TR          | G1093784  |       | 1-   | B    | c2      |
| Q 3014 | IC          |       |       |      | HD64F2238BFA13(FLASH) | ×         |       | 1-   | B    | d2      |
| Q 3015 | TRANSISTOR  |       |       |      | DTC323TK T146         | G3070042  |       | 1-   | A    | D2      |
| Q 3016 | IC          |       |       |      | TA75S01F TE85R        | G1091593  |       | 1-   | A    | D2      |
| Q 3017 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R       | G3341167G |       | 1-   | B    | d2      |
| Q 3018 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R       | G3341167G |       | 1-   | B    | f1      |
| Q 3019 | IC          |       |       |      | TA75S01F TE85R        | G1091593  |       | 1-   | B    | f2      |
| Q 3020 | IC          |       |       |      | FX805LG-TR            | G1092528  |       | 1-   | B    | f2      |
| Q 3021 | IC          |       |       |      | NJM2902V-TE1          | G1091679  |       | 1-   | A    | D1      |
| Q 3022 | TRANSISTOR  |       |       |      | 2SA1586Y TE85R        | G3115867Y |       | 1-   | B    | b2      |
| Q 3023 | IC          |       |       |      | TA75S01F TE85R        | G1091593  |       | 1-   | B    | f3      |
| Q 3024 | TRANSISTOR  |       |       |      | FMG2 T148             | G3070015  |       | 1-   | A    | C2      |
| Q 3025 | TRANSISTOR  |       |       |      | 2SC4116GR TE85R       | G3341167G |       | 1-   | A    | D3      |
| Q 3026 | TRANSISTOR  |       |       |      | DTA144EE TL           | G3070074  |       | 1-   | A    | B1      |
| Q 3028 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | A    | D3      |
| Q 3029 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | A    | B2      |
| Q 3032 | IC          |       |       |      | BU4066BCFV-E2         | G1093537  |       | 1-   | A    | C2      |
| Q 3033 | IC          |       |       |      | BU4066BCFV-E2         | G1093537  |       | 1-   | A    | B2      |
| Q 3034 | IC          |       |       |      | LA8630M-B-TE-R        | G1093452  |       | 1-   | A    | C1      |
| Q 3035 | IC          |       |       |      | NJM2904V-TE1          | G1091677  |       | 1-   | A    | C3      |
| Q 3036 | IC          |       |       |      | TA75S01F TE85R        | G1091593  |       | 1-   | A    | C1      |
| Q 3037 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | A    | C1      |
| Q 3038 | TRANSISTOR  |       |       |      | DTC323TK T146         | G3070042  |       | 1-   | B    | c2      |
| Q 3039 | TRANSISTOR  |       |       |      | FMG2 T148             | G3070015  |       | 1-   | B    | e1      |
| Q 3040 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | A    | B2      |
| Q 3041 | IC          |       |       |      | NJM2904V-TE1          | G1091677  |       | 1-   | A    | F3      |
| Q 3042 | TRANSISTOR  |       |       |      | 2SC4154-T11-1E        | G3341548E |       | 1-   | A    | G3      |
| Q 3043 | IC          |       |       |      | NJM12903R-TE1         | G1093336  |       | 1-   | A    | G3      |
| Q 3044 | IC          |       |       |      | NJM2902V-TE1          | G1091679  |       | 1-   | A    | G2      |
| Q 3046 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | B    | b2      |
| Q 3050 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | A    | E2      |
| Q 3051 | IC          |       |       |      | TC7S66FU TE85R        | G1092116  |       | 1-   | B    | h2      |
| Q 3052 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | B    | h2      |
| Q 3053 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | B    | h2      |
| Q 3054 | TRANSISTOR  |       |       |      | 2SA1586Y TE85R        | G3115867Y |       | 1-   | B    | b2      |
| Q 3055 | TRANSISTOR  |       |       |      | 2SB1201S-TL           | G3070195  |       | 1-   | A    | H1      |
| Q 3056 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | A    | H1      |
| Q 3057 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | A    | H1      |
| Q 3058 | IC          |       |       |      | TC4W53FU TE12L        | G1091675  |       | 1-   | A    | E3      |
| Q 3059 | IC          |       |       |      | TA75S01F TE85R        | G1091593  |       | 1-   | A    | G3      |
| Q 3060 | TRANSISTOR  |       |       |      | DTC144EE TL           | G3070075  |       | 1-   | A    | E2      |
| Q 3061 | IC          |       |       |      | TC4S81F TE85R         | G1090895  |       | 1-   | A    | B2      |
| Q 3062 | TRANSISTOR  |       |       |      | FMG2 T148             | G3070015  |       | 1-   | A    | B1      |
| Q 3063 | TRANSISTOR  |       |       |      | FMG2 T148             | G3070015  |       | 1-   | A    | B2      |
| Q 3064 | IC          |       |       |      | TC4S66F TE85R         | G1090893  |       | 1-   | A    | B1      |
| R 3001 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP       | J24185473 |       | 1-   | A    | A1      |
| R 3002 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP       | J24185103 |       | 1-   | A    | E3      |
| R 3003 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP       | J24185473 |       | 1-   | A    | A1      |
| R 3004 | CHIP RES.   | 180k  | 1/16W | 5%   | RMC1/16 184JATP       | J24185184 |       | 1-   | A    | E2      |
| R 3005 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP       | J24185473 |       | 1-   | A    | A2      |
| R 3006 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16 683JATP       | J24185683 |       | 1-   | A    | A1      |
| R 3007 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16 153JATP       | J24185153 |       | 1-   | A    | A2      |
| R 3008 | CHIP RES.   | 8.2k  | 1/16W | 5%   | RMC1/16 822JATP       | J24185822 |       | 1-   | A    | A2      |
| R 3009 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP       | J24185103 |       | 1-10 | A    | A1      |
| R 3009 | CHIP RES.   | 12k   | 1/16W | 5%   | RMC1/16 123JATP       | J24185123 |       | 11-  | A    | A1      |
| R 3010 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP       | J24185472 |       | 1-   | B    | h2      |
| R 3011 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP       | J24185473 |       | 1-   | A    | A1      |
| R 3012 | CHIP RES.   | 560   | 1/16W | 5%   | RMC1/16 561JATP       | J24185561 |       | 1-   | A    | A2      |
| R 3013 | CHIP RES.   | 560   | 1/16W | 5%   | RMC1/16 561JATP       | J24185561 |       | 1-   | A    | A2      |
| R 3014 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP       | J24185101 |       | 1-   | B    | h2      |
| R 3015 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP       | J24185473 |       | 1-   | A    | A2      |
| R 3016 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP       | J24185102 |       | 1-   | B    | h2      |

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# CNTL Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 3017 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP | J24185331 |       | 1-  | B    | h2      |
| R 3018 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h2      |
| R 3019 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP | J24185331 |       | 1-  | B    | h2      |
| R 3020 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h2      |
| R 3021 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h2      |
| R 3022 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h2      |
| R 3023 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16 153JATP | J24185153 |       | 1   | A    | A2      |
| R 3023 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 2-  | A    | A2      |
| R 3024 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h2      |
| R 3025 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | E3      |
| R 3026 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h2      |
| R 3027 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h3      |
| R 3028 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h3      |
| R 3029 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h3      |
| R 3030 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h3      |
| R 3031 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h3      |
| R 3032 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | E3      |
| R 3033 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | i2      |
| R 3034 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | B    | h2      |
| R 3035 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | i2      |
| R 3036 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | B    | h2      |
| R 3037 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | i2      |
| R 3038 | CHIP RES.   | 1k    | 1/4W  | 5%   | RMC1/4 102JATP  | J24245102 |       | 1-  | A    | H1      |
| R 3039 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | i3      |
| R 3040 | CHIP RES.   | 1k    | 1/4W  | 5%   | RMC1/4 102JATP  | J24245102 |       | 1-  | A    | H1      |
| R 3041 | CHIP RES.   | 560   | 1/16W | 5%   | RMC1/16 561JATP | J24185561 |       | 1-  | B    | h3      |
| R 3042 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | i3      |
| R 3043 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | i3      |
| R 3045 | CHIP RES.   | 560   | 1/16W | 5%   | RMC1/16 561JATP | J24185561 |       | 1-  | B    | h3      |
| R 3046 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | i3      |
| R 3047 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | b1      |
| R 3048 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | i3      |
| R 3049 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | h3      |
| R 3050 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | h3      |
| R 3051 | CHIP RES.   | 0     | 1W    | 5%   | RMC1 JPATE      | J24305000 |       | 1-  | B    | d3      |
| R 3052 | CHIP RES.   | 18k   | 1/16W | 1%   | RMC1/16 183FTP  | J24183183 |       | 1-  | B    | c2      |
| R 3053 | CHIP RES.   | 12k   | 1/16W | 1%   | RMC1/16 123FTP  | J24183123 |       | 1-  | B    | c2      |
| R 3054 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16 103FTP  | J24183103 |       | 1-  | B    | c2      |
| R 3055 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | g3      |
| R 3056 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | g3      |
| R 3057 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | e1      |
| R 3058 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | e2      |
| R 3059 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | e2      |
| R 3061 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | e2      |
| R 3062 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | e2      |
| R 3064 | CHIP RES.   | 33    | 1W    | 5%   | RMC1 330JTE     | J24305330 |       | 1   | B    | b3      |
| R 3065 | CHIP RES.   | 33    | 1W    | 5%   | RMC1 330JTE     | J24305330 |       | 1   | B    | b3      |
| R 3066 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | e1      |
| R 3067 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | d2      |
| R 3068 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | e2      |
| R 3069 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | e2      |
| R 3070 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | d2      |
| R 3071 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | e2      |
| R 3072 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | d2      |
| R 3073 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | e2      |
| R 3075 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | B    | c2      |
| R 3076 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | B    | c2      |
| R 3077 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | D2      |
| R 3079 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | D1      |
| R 3080 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | E1      |
| R 3081 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16 334JATP | J24185334 |       | 1-  | A    | D2      |
| R 3082 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | B    | d2      |
| R 3084 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |       | 1-  | A    | D1      |
| R 3085 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16 154JATP | J24185154 |       | 1-  | B    | f1      |
| R 3086 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | f2      |
| R 3087 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | c2      |
| R 3088 | CHIP RES.   | 1M    | 1/16W | 5%   | RMC1/16 105JATP | J24185105 |       | 1-  | B    | f1      |
| R 3089 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | D2      |
| R 3090 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16 334JATP | J24185334 |       | 1-  | B    | f2      |
| R 3091 | CHIP RES.   | 1M    | 1/16W | 5%   | RMC1/16 105JATP | J24185105 |       | 1-  | B    | d3      |
| R 3092 | CHIP RES.   | 8.2k  | 1/16W | 5%   | RMC1/16 822JATP | J24185822 |       | 1-  | A    | D2      |
| R 3093 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | D1      |
| R 3094 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | f2      |

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 3095 | CHIP RES.   | 56k   | 1/16W | 5%   | RMC1/16 563JATP | J24185563 |       | 1-  | A    | D1      |
| R 3096 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | e2      |
| R 3097 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16 154JATP | J24185154 |       | 1-  | B    | f2      |
| R 3098 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | B    | f2      |
| R 3099 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | A    | D1      |
| R 3100 | CHIP RES.   | 270k  | 1/16W | 5%   | RMC1/16 274JATP | J24185274 |       | 1-  | A    | D1      |
| R 3101 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | D1      |
| R 3102 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | D1      |
| R 3103 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | D1      |
| R 3104 | CHIP RES.   | 8.2k  | 1/16W | 5%   | RMC1/16 822JATP | J24185822 |       | 1-  | A    | D1      |
| R 3105 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | D1      |
| R 3106 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |       | 1-  | B    | f2      |
| R 3107 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | B    | e2      |
| R 3109 | CHIP RES.   | 5.6k  | 1/16W | 5%   | RMC1/16 562JATP | J24185562 |       | 1-  | B    | c3      |
| R 3110 | CHIP RES.   | 5.6k  | 1/16W | 5%   | RMC1/16 562JATP | J24185562 |       | 1-  | B    | e2      |
| R 3111 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | B    | c2      |
| R 3112 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | e2      |
| R 3113 | CHIP RES.   | 120k  | 1/16W | 5%   | RMC1/16 124JATP | J24185124 |       | 1-  | B    | e3      |
| R 3114 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-  | A    | D1      |
| R 3115 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | D1      |
| R 3117 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | B    | c2      |
| R 3118 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | D1      |
| R 3119 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | c2      |
| R 3120 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | c2      |
| R 3121 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | f3      |
| R 3122 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | D1      |
| R 3123 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | c3      |
| R 3124 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | D1      |
| R 3125 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |       | 1-  | A    | E3      |
| R 3127 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B2      |
| R 3128 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B1      |
| R 3129 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B2      |
| R 3130 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | D3      |
| R 3131 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | D2      |
| R 3133 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | B2      |
| R 3135 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C2      |
| R 3136 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | C1      |
| R 3137 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B2      |
| R 3138 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B1      |
| R 3139 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | C2      |
| R 3140 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | D2      |
| R 3141 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C2      |
| R 3142 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | C2      |
| R 3143 | CHIP RES.   | 1.8k  | 1/16W | 5%   | RMC1/16 182JATP | J24185182 |       | 1-  | A    | C2      |
| R 3144 | CHIP RES.   | 27k   | 1/16W | 5%   | RMC1/16 273JATP | J24185273 |       | 1-  | A    | C1      |
| R 3145 | CHIP RES.   | 27k   | 1/16W | 5%   | RMC1/16 273JATP | J24185273 |       | 1-  | A    | B2      |
| R 3146 | CHIP RES.   | 27k   | 1/16W | 5%   | RMC1/16 273JATP | J24185273 |       | 1-  | A    | B1      |
| R 3147 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 1-  | A    | D3      |
| R 3150 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C2      |
| R 3151 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C2      |
| R 3152 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B1      |
| R 3153 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B1      |
| R 3154 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | B1      |
| R 3155 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | C2      |
| R 3157 | CHIP RES.   | 68    | 1/16W | 5%   | RMC1/16 680JATP | J24185680 |       | 1-  | A    | B1      |
| R 3158 | CHIP RES.   | 1M    | 1/16W | 5%   | RMC1/16 105JATP | J24185105 |       | 1-  | A    | B2      |
| R 3161 | CHIP RES.   | 1M    | 1/16W | 5%   | RMC1/16 105JATP | J24185105 |       | 1-  | A    | B1      |
| R 3162 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C1      |
| R 3163 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |       | 1-  | A    | C2      |
| R 3164 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B2      |
| R 3165 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | C2      |
| R 3166 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | C3      |
| R 3168 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16 153JATP | J24185153 |       | 1-  | A    | B3      |
| R 3169 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B3      |
| R 3170 | CHIP RES.   | 39k   | 1/16W | 5%   | RMC1/16 393JATP | J24185393 |       | 1-  | A    | B3      |
| R 3171 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | C2      |
| R 3172 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | D2      |
| R 3173 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C2      |
| R 3174 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C2      |
| R 3175 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C2      |
| R 3176 | CHIP RES.   | 8.2k  | 1/16W | 5%   | RMC1/16 822JATP | J24185822 |       | 1-  | A    | C1      |
| R 3178 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | C1      |
| R 3179 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | C2      |

# CNTL Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 3180 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | C2      |
| R 3181 | CHIP RES.   | 1.8k  | 1/16W | 5%   | RMC1/16 182JATP | J24185182 |       | 1-  | A    | C2      |
| R 3182 | CHIP RES.   | 680k  | 1/16W | 5%   | RMC1/16 684JATP | J24185684 |       | 1-  | A    | C3      |
| R 3183 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |       | 1-  | A    | C3      |
| R 3184 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | C2      |
| R 3185 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | C2      |
| R 3186 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | C1      |
| R 3187 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |       | 1-  | A    | C1      |
| R 3188 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |       | 1-  | A    | B3      |
| R 3189 | CHIP RES.   | 1M    | 1/16W | 5%   | RMC1/16 105JATP | J24185105 |       | 1-  | A    | C3      |
| R 3193 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C2      |
| R 3194 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | C3      |
| R 3195 | CHIP RES.   | 2.2M  | 1/16W | 5%   | RMC1/16 225JATP | J24185225 |       | 1-  | A    | C1      |
| R 3196 | CHIP RES.   | 18k   | 1/16W | 5%   | RMC1/16 183JATP | J24185183 |       | 1-  | A    | C1      |
| R 3197 | CHIP RES.   | 8.2k  | 1/16W | 5%   | RMC1/16 822JATP | J24185822 |       | 1-  | A    | C3      |
| R 3198 | CHIP RES.   | 1.2M  | 1/16W | 5%   | RMC1/16 125JATP | J24185125 |       | 1-  | A    | D1      |
| R 3200 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | C3      |
| R 3202 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | C3      |
| R 3203 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C1      |
| R 3204 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | C1      |
| R 3205 | CHIP RES.   | 270k  | 1/16W | 5%   | RMC1/16 274JATP | J24185274 |       | 1-  | B    | c2      |
| R 3206 | CHIP RES.   | 1M    | 1/16W | 5%   | RMC1/16 105JATP | J24185105 |       | 1-  | B    | c2      |
| R 3207 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | c2      |
| R 3208 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | e1      |
| R 3209 | CHIP RES.   | 2.7k  | 1/16W | 5%   | RMC1/16 272JATP | J24185272 |       | 1-  | B    | c2      |
| R 3210 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | B    | c2      |
| R 3212 | CHIP RES.   | 0     | 1W    | 5%   | RMC1 JPATE      | J24305000 |       | 1-  | A    | D3      |
| R 3213 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B2      |
| R 3214 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B2      |
| R 3215 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B2      |
| R 3219 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16 474FTP  | J24183474 |       | 1-  | A    | F3      |
| R 3220 | CHIP RES.   | 22k   | 1/16W | 1%   | RMC1/16 223FTP  | J24183223 |       | 1-  | A    | F3      |
| R 3221 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16 103FTP  | J24183103 |       | 1-  | A    | F3      |
| R 3222 | CHIP RES.   | 680   | 1/16W | 1%   | RMC1/16 681FTP  | J24183681 |       | 1-  | A    | F3      |
| R 3223 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16 104FTP  | J24183104 |       | 1-  | A    | F3      |
| R 3224 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16 104FTP  | J24183104 |       | 1-  | A    | F3      |
| R 3225 | CHIP RES.   | 820k  | 1/16W | 5%   | RMC1/16 824JATP | J24185824 |       | 1-  | A    | G3      |
| R 3226 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | F3      |
| R 3227 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | F3      |
| R 3228 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | G3      |
| R 3229 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-  | A    | G3      |
| R 3230 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16 224JATP | J24185224 |       | 1-  | A    | G3      |
| R 3231 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |       | 1-  | A    | F3      |
| R 3232 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-  | A    | F3      |
| R 3233 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | A    | G3      |
| R 3234 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | A    | F3      |
| R 3235 | CHIP RES.   | 120k  | 1/16W | 5%   | RMC1/16 124JATP | J24185124 |       | 1-  | A    | G2      |
| R 3236 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16 224JATP | J24185224 |       | 1-  | A    | F2      |
| R 3237 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-  | A    | G2      |
| R 3238 | CHIP RES.   | 120k  | 1/16W | 5%   | RMC1/16 124JATP | J24185124 |       | 1-  | A    | G2      |
| R 3239 | CHIP RES.   | 1.5M  | 1/16W | 5%   | RMC1/16 155JATP | J24185155 |       | 1-  | A    | G2      |
| R 3240 | CHIP RES.   | 6.8k  | 1/16W | 5%   | RMC1/16 682JATP | J24185682 |       | 1-  | A    | G2      |
| R 3241 | CHIP RES.   | 120k  | 1/16W | 5%   | RMC1/16 124JATP | J24185124 |       | 1-  | A    | G2      |
| R 3242 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | G2      |
| R 3243 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | F2      |
| R 3244 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-  | A    | G2      |
| R 3245 | CHIP RES.   | 120k  | 1/16W | 5%   | RMC1/16 124JATP | J24185124 |       | 1-  | A    | G2      |
| R 3246 | CHIP RES.   | 120k  | 1/16W | 5%   | RMC1/16 124JATP | J24185124 |       | 1-  | A    | G2      |
| R 3247 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | G2      |
| R 3248 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16 153JATP | J24185153 |       | 1-  | B    | c2      |
| R 3249 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | B    | c2      |
| R 3250 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | B    | c2      |
| R 3251 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | b2      |
| R 3252 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | b2      |
| R 3253 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | b2      |
| R 3254 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16 333JATP | J24185333 |       | 1-  | A    | C2      |
| R 3255 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | C3      |
| R 3256 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | E2      |
| R 3257 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | h2      |
| R 3258 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | g2      |
| R 3260 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | E3      |
| R 3262 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | D1      |
| R 3263 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | F3      |



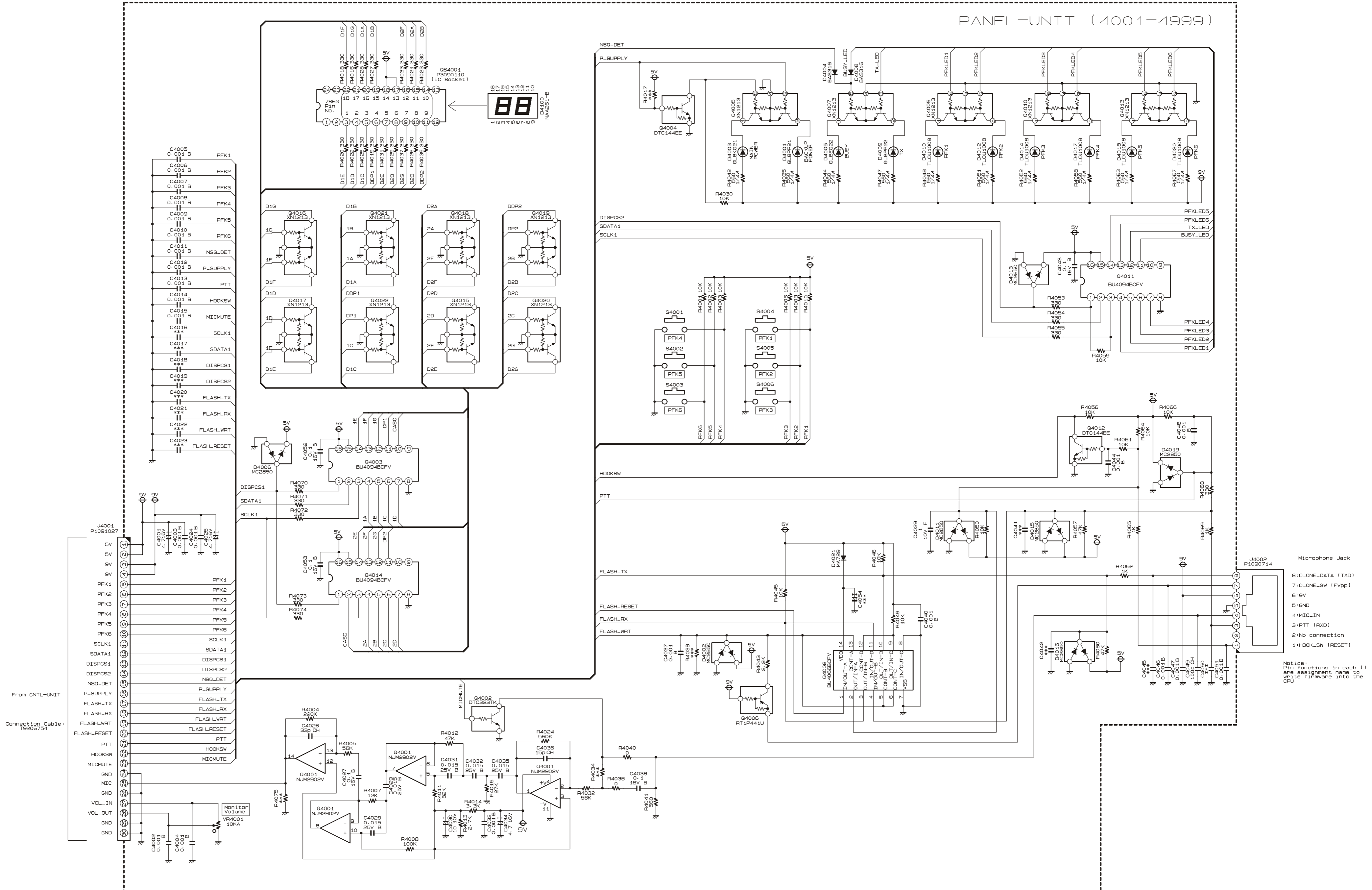
# CNTL Unit

## Parts List

| REF    | DESCRIPTION      | VALUE     | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|------------------|-----------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 3264 | CHIP RES.        | 0         | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | G3      |
| R 3265 | CHIP RES.        | 0         | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | G3      |
| R 3266 | CHIP RES.        | 0         | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | E3      |
| R 3267 | CHIP RES.        | 10k       | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | E3      |
| R 3269 | CHIP RES.        | 39k       | 1/16W | 5%   | RMC1/16 393JATP | J24185393 |       | 1-  | A    | E3      |
| R 3270 | CHIP RES.        | 10k       | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | E1      |
| R 3271 | CHIP RES.        | 10k       | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | E2      |
| R 3273 | CHIP RES.        | 0         | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | E2      |
| R 3274 | CHIP RES.        | 0         | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | B    | f1      |
| R 3275 | CHIP RES.        | 5.6k      | 1/16W | 5%   | RMC1/16 562JATP | J24185562 |       | 1-  | A    | E2      |
| R 3276 | CHIP RES.        | 68k       | 1/16W | 5%   | RMC1/16 683JATP | J24185683 |       | 1-  | B    | h2      |
| R 3277 | CHIP RES.        | 10k       | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | B    | g3      |
| R 3278 | CHIP RES.        | 10k       | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | D1      |
| R 3279 | CHIP RES.        | 270k      | 1/16W | 5%   | RMC1/16 274JATP | J24185274 |       | 1-  | B    | h2      |
| R 3282 | CHIP RES.        | 1k        | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | B    | b2      |
| R 3283 | CHIP RES.        | 47k       | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | B2      |
| R 3284 | CHIP RES.        | 47k       | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | B    | g2      |
| R 3285 | CHIP RES.        | 47k       | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | B2      |
| R 3286 | CHIP RES.        | 47k       | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | B1      |
| R 3287 | CHIP RES.        | 0         | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B1      |
| R 3288 | CARBON FILM RES. | 2.2k      | 1/6W  | 5%   | RD16PJ222 2.2K  | J01225222 |       | 1-  |      |         |
| R 3289 | CARBON FILM RES. | 120k      | 1/6W  | 5%   | RD16TPJ124 120K | J07225124 |       | 1-  |      |         |
| R 3290 | CARBON FILM RES. | 4.7k      | 1/6W  | 5%   | RD16PJ472 4.7K  | J01225472 |       | 11- |      |         |
| X 3001 | XTAL TRS-4.0     | 4MHz      |       |      | 4.000MHZ        | H0103283  |       | 1-  | B    | f1      |
| X 3002 | XTAL TRS-4.0     | 12.288MHz |       |      | 12.288MHZ       | H0103291  |       | 1-  | B    | d2      |

## *CNTL Unit*

*Note:*

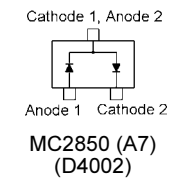
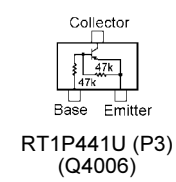
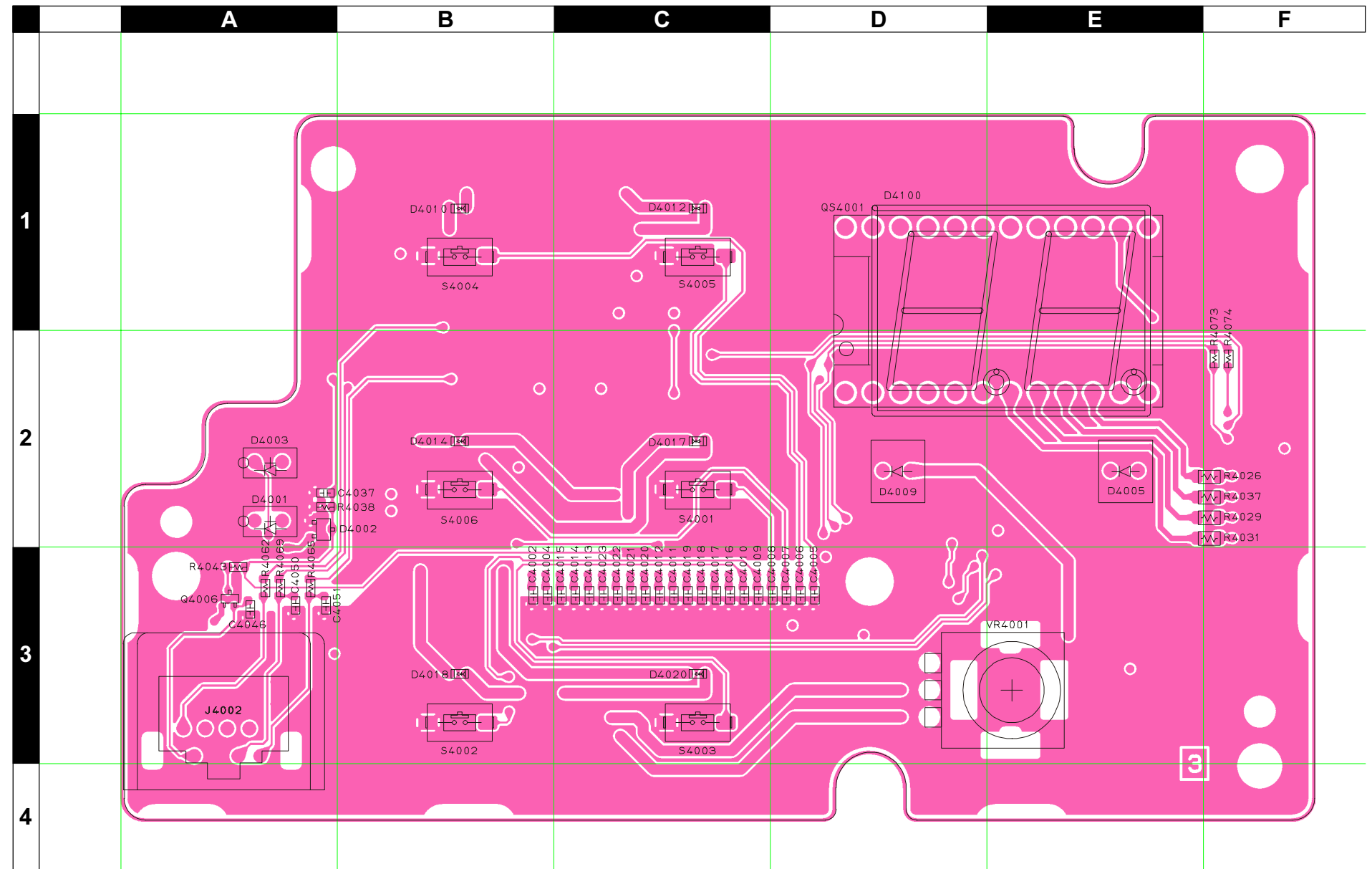


*PANEL Unit*

*Note*

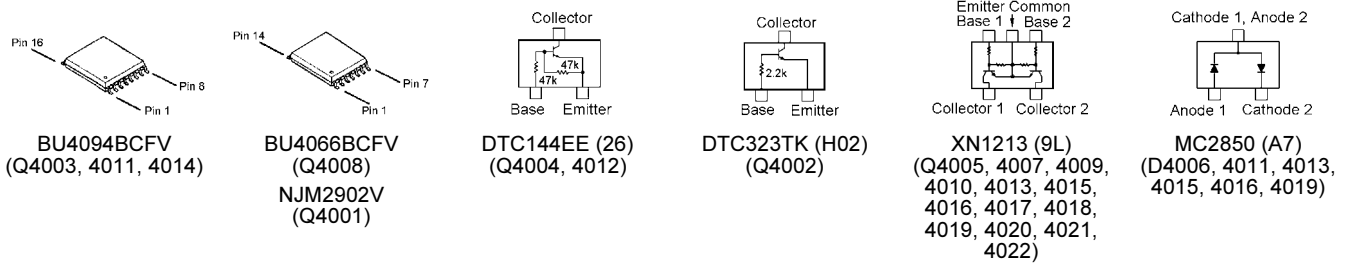
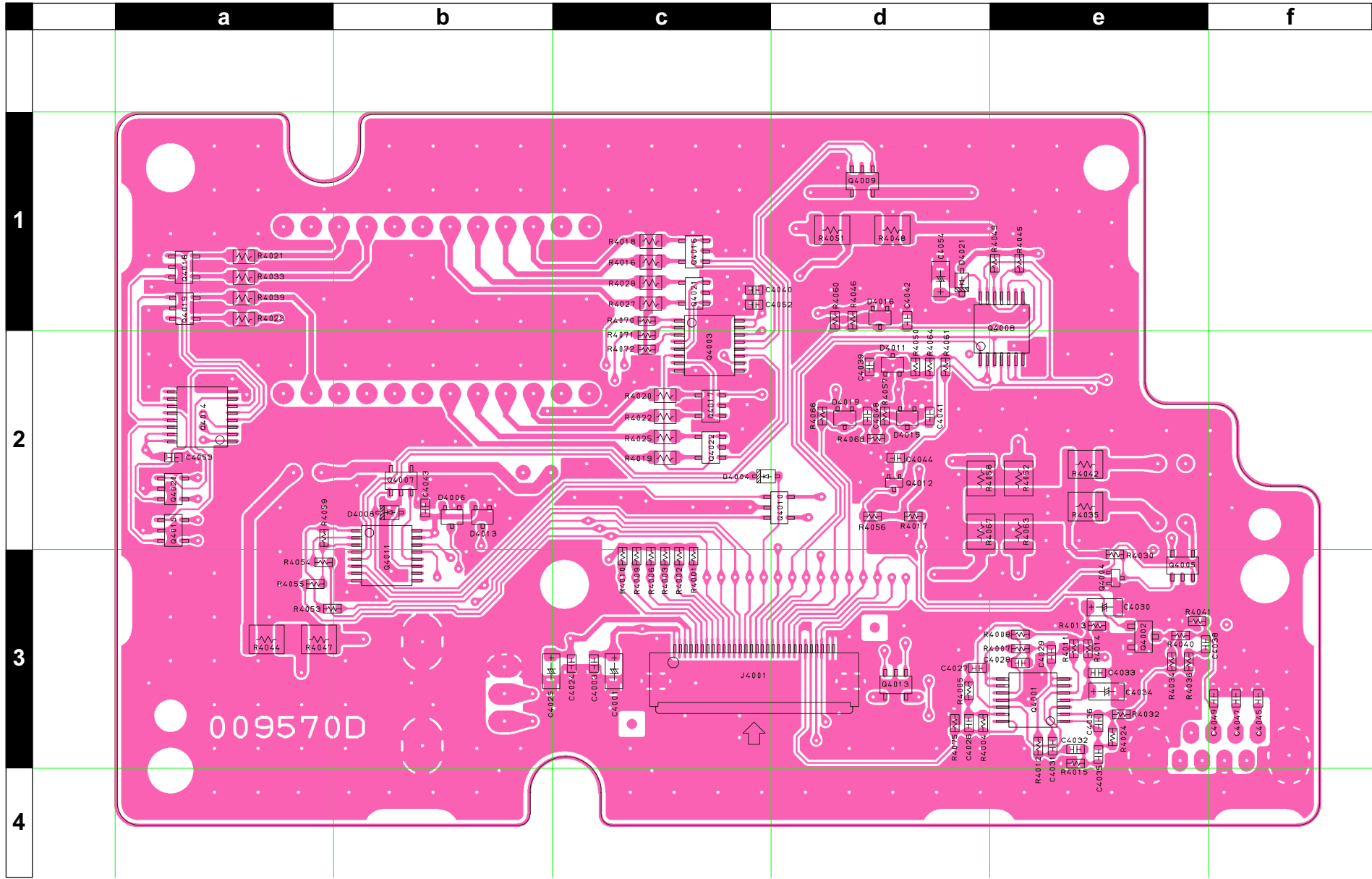
# PANEL Unit

## Parts Layout (Side A)



# PANEL Unit

## Parts Layout (Side B)



# PANEL Unit

## Parts List

| REF                   | DESCRIPTION  | VALUE   | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|-----------------------|--------------|---------|-----|------|--------------------|-----------|-------|-----|------|---------|
| PCB with Components   |              |         |     |      |                    | CB2327001 |       |     |      |         |
| Printed Circuit Board |              |         |     |      |                    | FR009570D |       |     |      |         |
| C 4001                | CHIP TA.CAP. | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | B    | c3      |
| C 4002                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B3      |
| C 4003                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | c3      |
| C 4004                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B3      |
| C 4005                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | D3      |
| C 4006                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | D3      |
| C 4007                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | D3      |
| C 4008                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 4009                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 4010                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 4011                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 4012                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 4013                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 4014                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 4015                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | C3      |
| C 4024                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | c3      |
| C 4025                | CHIP TA.CAP. | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | B    | b3      |
| C 4026                | CHIP CAP.    | 33pF    | 50V | CH   | GRM1882C1H330JA01D | K22174223 |       | 1-  | B    | d3      |
| C 4027                | CHIP CAP.    | 0.1uF   | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | d3      |
| C 4028                | CHIP CAP.    | 0.015uF | 25V | B    | GRM39B153K25PT     | K22144805 |       | 1-  | B    | e3      |
| C 4029                | CHIP CAP.    | 0.015uF | 25V | B    | GRM39B153K25PT     | K22144805 |       | 1-  | B    | e3      |
| C 4030                | CHIP TA.CAP. | 10uF    | 10V |      | TEMSVA1A106M-8R    | K78100028 |       | 1-  | B    | e3      |
| C 4031                | CHIP CAP.    | 0.015uF | 25V | B    | GRM39B153K25PT     | K22144805 |       | 1-  | B    | e3      |
| C 4032                | CHIP CAP.    | 0.015uF | 25V | B    | GRM39B153K25PT     | K22144805 |       | 1-  | B    | e3      |
| C 4033                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | e3      |
| C 4034                | CHIP TA.CAP. | 4.7uF   | 16V |      | TEMSVA1C475M-8R    | K78120031 |       | 1-  | B    | e3      |
| C 4035                | CHIP CAP.    | 0.015uF | 25V | B    | GRM39B153K25PT     | K22144805 |       | 1-  | B    | e3      |
| C 4036                | CHIP CAP.    | 15pF    | 50V | CH   | GRM1882C1H150JA01D | K22174215 |       | 1-  | B    | e3      |
| C 4037                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | A2      |
| C 4038                | CHIP CAP.    | 0.1uF   | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | e3      |
| C 4039                | CHIP CAP.    | 1uF     | 10V | F    | GRM188F11A105ZA01D | K22105001 |       | 1-  | B    | d2      |
| C 4040                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | c1      |
| C 4043                | CHIP CAP.    | 0.1uF   | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | b2      |
| C 4044                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | d2      |
| C 4046                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | A3      |
| C 4047                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | f3      |
| C 4048                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | B    | d2      |
| C 4049                | CHIP CAP.    | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | B    | f3      |
| C 4051                | CHIP CAP.    | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | A3      |
| C 4052                | CHIP CAP.    | 0.1uF   | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | c1      |
| C 4053                | CHIP CAP.    | 0.1uF   | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | a2      |
| D 4001                | LED          |         |     |      | GL8PR21            | G2090395  |       | 1-  | A    | A2      |
| D 4002                | DIODE        |         |     |      | MC2850-T11-1       | G2070704  |       | 1-  | A    | A2      |
| D 4003                | LED          |         |     |      | GL8KG21            | G2090625  |       | 1-  | A    | A2      |
| D 4004                | DIODE        |         |     |      | BAS316             | G2070716  |       | 1-  | B    | c2      |
| D 4005                | LED          |         |     |      | GL8EG22            | G2090561  |       | 1-  | A    | E2      |
| D 4006                | DIODE        |         |     |      | MC2850-T11-1       | G2070704  |       | 1-  | B    | b2      |
| D 4008                | DIODE        |         |     |      | BAS316             | G2070716  |       | 1-  | B    | b2      |
| D 4009                | LED          |         |     |      | GL8PR22            | G2090431  |       | 1-  | A    | D2      |
| D 4010                | LED          |         |     |      | TLOU1008(T04)      | G2070796  |       | 1-  | A    | B1      |
| D 4011                | DIODE        |         |     |      | MC2850-T11-1       | G2070704  |       | 1-  | B    | d2      |
| D 4012                | LED          |         |     |      | TLOU1008(T04)      | G2070796  |       | 1-  | A    | C1      |
| D 4013                | DIODE        |         |     |      | MC2850-T11-1       | G2070704  |       | 1-  | B    | b2      |
| D 4014                | LED          |         |     |      | TLOU1008(T04)      | G2070796  |       | 1-  | A    | B2      |
| D 4015                | DIODE        |         |     |      | MC2850-T11-1       | G2070704  |       | 1-  | B    | d2      |
| D 4016                | DIODE        |         |     |      | MC2850-T11-1       | G2070704  |       | 1-  | B    | d1      |
| D 4017                | LED          |         |     |      | TLOU1008(T04)      | G2070796  |       | 1-  | A    | C2      |
| D 4018                | LED          |         |     |      | TLOU1008(T04)      | G2070796  |       | 1-  | A    | B3      |
| D 4019                | DIODE        |         |     |      | MC2850-T11-1       | G2070704  |       | 1-  | B    | d2      |
| D 4020                | LED          |         |     |      | TLOU1008(T04)      | G2070796  |       | 1-  | A    | C3      |
| D 4021                | DIODE        |         |     |      | MA729-(TX)         | G2070320  |       | 1-  | B    | d1      |
| D 4100                | LED          |         |     |      | LB-602DA2          | G2090779  |       | 1-  | B    |         |
| J 4001                | CONNECTOR    |         |     |      | 9637S-30-Y905      | P1091169  |       | 1-  | B    | c3      |
| J 4002                | CONNECTOR    |         |     |      | R41-2509H          | P1090714  |       | 1-  | A    | A4      |
| JP4001                | WIRE ASSY    |         |     |      | BLK 70 (5)/(5)     | T54007022 |       | 1-  |      |         |
| JP4002                | WIRE ASSY    |         |     |      | BLK 85 (5)/(5)     | T54008522 |       | 1-  |      |         |
| Q 4001                | IC           |         |     |      | NJM2902V-TE1       | G1091679  |       | 1-  | B    | e3      |
| Q 4002                | TRANSISTOR   |         |     |      | DTC323TK T146      | G3070042  |       | 1-  | B    | e3      |
| Q 4003                | IC           |         |     |      | BU4094BCFV-E2      | G1093527  |       | 1-  | B    | c2      |
| Q 4004                | TRANSISTOR   |         |     |      | DTC144EE TL        | G3070075  |       | 1-  | B    | e3      |
| Q 4005                | TRANSISTOR   |         |     |      | XN1213-(TX)        | G3070194  |       | 1-  | B    | e3      |

# PANEL Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|------|------|---------|
| Q 4006 | TRANSISTOR  |       |       |      | RT1P441U-T11-1  | G3070248  |       | 1-   | A    | A3      |
| Q 4007 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | b2      |
| Q 4008 | IC          |       |       |      | BU4066BCFV-E2   | G1093537  |       | 1-   | B    | e1      |
| Q 4009 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | d1      |
| Q 4010 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | d2      |
| Q 4011 | IC          |       |       |      | BU4094BCFV-E2   | G1093527  |       | 1-   | B    | b3      |
| Q 4012 | TRANSISTOR  |       |       |      | DTC144EE TL     | G3070075  |       | 1-   | B    | d2      |
| Q 4013 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | d3      |
| Q 4014 | IC          |       |       |      | BU4094BCFV-E2   | G1093527  |       | 1-   | B    | a2      |
| Q 4015 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | a2      |
| Q 4016 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | c1      |
| Q 4017 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | c2      |
| Q 4018 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | a1      |
| Q 4019 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | a1      |
| Q 4020 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | a2      |
| Q 4021 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | c1      |
| Q 4022 | TRANSISTOR  |       |       |      | XN1213-(TX)     | G3070194  |       | 1-   | B    | c2      |
| QS4001 | IC SOCKET   |       |       |      | 110-99-624      | P3090110  |       | 1-15 | A    | E1      |
| QS4001 | IC SOCKET   |       |       |      | DIP624G11S1     | P3090112  |       | 16-  | A    | E1      |
| R 4001 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | c3      |
| R 4002 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | c3      |
| R 4003 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | c3      |
| R 4004 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16 224JATP | J24185224 |       | 1-   | B    | d3      |
| R 4005 | CHIP RES.   | 56k   | 1/16W | 5%   | RMC1/16 563JATP | J24185563 |       | 1-   | B    | d3      |
| R 4006 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | c3      |
| R 4007 | CHIP RES.   | 12k   | 1/16W | 5%   | RMC1/16 123JATP | J24185123 |       | 1-   | B    | e3      |
| R 4008 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16 104JATP | J24185104 |       | 1-   | B    | e3      |
| R 4009 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | c3      |
| R 4010 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | c3      |
| R 4011 | CHIP RES.   | 82k   | 1/16W | 5%   | RMC1/16 823JATP | J24185823 |       | 1-   | B    | e3      |
| R 4012 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-   | B    | e3      |
| R 4013 | CHIP RES.   | 2.7k  | 1/16W | 5%   | RMC1/16 272JATP | J24185272 |       | 1-   | B    | e3      |
| R 4014 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP | J24185332 |       | 1-   | B    | e3      |
| R 4015 | CHIP RES.   | 27k   | 1/16W | 5%   | RMC1/16 273JATP | J24185273 |       | 1-   | B    | e3      |
| R 4016 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | c1      |
| R 4018 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | c1      |
| R 4019 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | c2      |
| R 4020 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | c2      |
| R 4021 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | a1      |
| R 4022 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | c2      |
| R 4023 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | a1      |
| R 4024 | CHIP RES.   | 560k  | 1/16W | 5%   | RMC1/16 564JATP | J24185564 |       | 1-   | B    | e3      |
| R 4025 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | c2      |
| R 4026 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | A    | F2      |
| R 4027 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | c1      |
| R 4028 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | c1      |
| R 4029 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | A    | F2      |
| R 4030 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | e3      |
| R 4031 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | A    | F2      |
| R 4032 | CHIP RES.   | 56k   | 1/16W | 5%   | RMC1/16 563JATP | J24185563 |       | 1-   | B    | e3      |
| R 4033 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | a1      |
| R 4035 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP  | J24245561 |       | 1-   | B    | e2      |
| R 4036 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-   | B    | e3      |
| R 4037 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | A    | F2      |
| R 4039 | CHIP RES.   | 330   | 1/10W | 5%   | RMC1/10T 331J   | J24205331 |       | 1-   | B    | a1      |
| R 4040 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-   | B    | e3      |
| R 4041 | CHIP RES.   | 560   | 1/16W | 5%   | RMC1/16 561JATP | J24185561 |       | 1-   | B    | e3      |
| R 4042 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP  | J24245561 |       | 1-   | B    | e2      |
| R 4043 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 1-   | A    | A3      |
| R 4044 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP  | J24245561 |       | 1-   | B    | a3      |
| R 4045 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | e1      |
| R 4046 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | d1      |
| R 4047 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP  | J24245561 |       | 1-   | B    | a3      |
| R 4048 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP  | J24245561 |       | 1-   | B    | d1      |
| R 4049 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | e1      |
| R 4050 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | d2      |
| R 4051 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP  | J24245561 |       | 1-   | B    | d1      |
| R 4052 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP  | J24245561 |       | 1-   | B    | e2      |
| R 4053 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP | J24185331 |       | 1-   | B    | a3      |
| R 4054 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP | J24185331 |       | 1-   | B    | a3      |
| R 4055 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP | J24185331 |       | 1-   | B    | a3      |
| R 4056 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-   | B    | d2      |
| R 4057 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-   | B    | d2      |



# PANEL Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG            | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|------------------------|-----------|-------|-----|------|---------|
| R 4058 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP         | J24245561 |       | 1-  | B    | d2      |
| R 4059 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP        | J24185103 |       | 1-  | B    | a2      |
| R 4060 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP        | J24185473 |       | 1-  | B    | d1      |
| R 4061 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP        | J24185103 |       | 1-  | B    | d2      |
| R 4062 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP        | J24185102 |       | 1-  | A    | A3      |
| R 4063 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP         | J24245561 |       | 1-  | B    | e2      |
| R 4064 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP        | J24185103 |       | 1-  | B    | d2      |
| R 4065 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP        | J24185102 |       | 1-  | A    | A3      |
| R 4066 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP        | J24185103 |       | 1-  | B    | d2      |
| R 4067 | CHIP RES.   | 560   | 1/4W  | 5%   | RMC1/4 561JATP         | J24245561 |       | 1-  | B    | d2      |
| R 4068 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP        | J24185331 |       | 1-  | B    | d2      |
| R 4069 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP        | J24185102 |       | 1-  | A    | A3      |
| R 4070 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP        | J24185331 |       | 1-  | B    | c1      |
| R 4071 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP        | J24185331 |       | 1-  | B    | c2      |
| R 4072 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP        | J24185331 |       | 1-  | B    | c2      |
| R 4073 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP        | J24185331 |       | 1-  | A    | F2      |
| R 4074 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16 331JATP        | J24185331 |       | 1-  | A    | F2      |
| S 4001 | TACT SWITCH |       |       |      | SKQMAL                 | N5090105  |       | 1-  | A    | C2      |
| S 4002 | TACT SWITCH |       |       |      | SKQMAL                 | N5090105  |       | 1-  | A    | B3      |
| S 4003 | TACT SWITCH |       |       |      | SKQMAL                 | N5090105  |       | 1-  | A    | C3      |
| S 4004 | TACT SWITCH |       |       |      | SKQMAL                 | N5090105  |       | 1-  | A    | B1      |
| S 4005 | TACT SWITCH |       |       |      | SKQMAL                 | N5090105  |       | 1-  | A    | C1      |
| S 4006 | TACT SWITCH |       |       |      | SKQMAL                 | N5090105  |       | 1-  | A    | B2      |
| VR4001 | POT.        |       |       |      | RK09L1141 F1B A14 10KA | J60800266 |       | 1-  | A    | E3      |
|        | LED SPACER  |       |       |      | LH-3-6                 | S6000343  |       | 1-  |      |         |
|        | LED SPACER  |       |       |      | LH-3-6                 | S6000343  |       | 1-  |      |         |
|        | LED SPACER  |       |       |      | LH-3-8                 | S6000345  |       | 1-  |      |         |
|        | LED SPACER  |       |       |      | LH-3-8                 | S6000345  |       | 1-  |      |         |

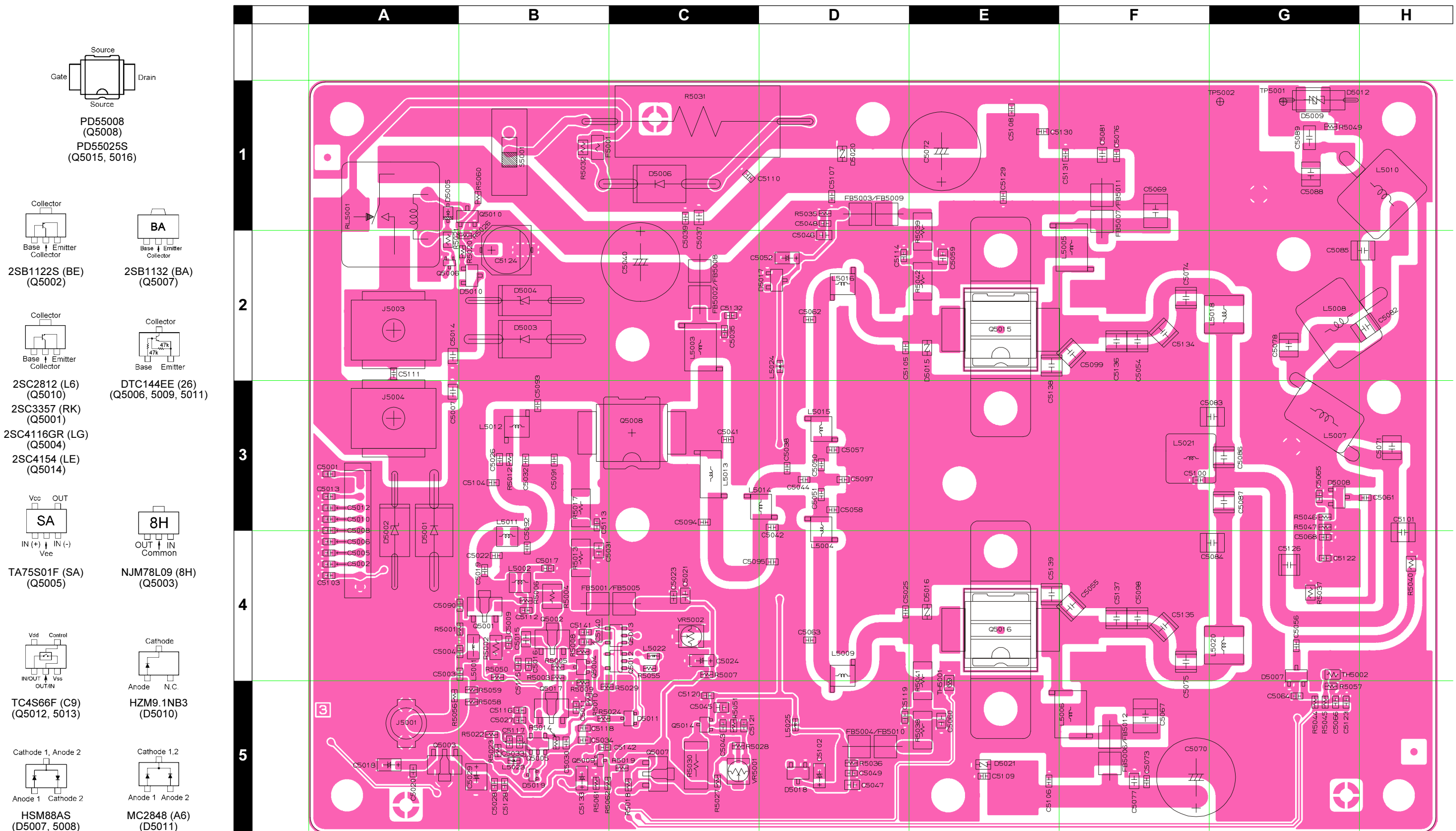
## *PANEL Unit*

*Note:*



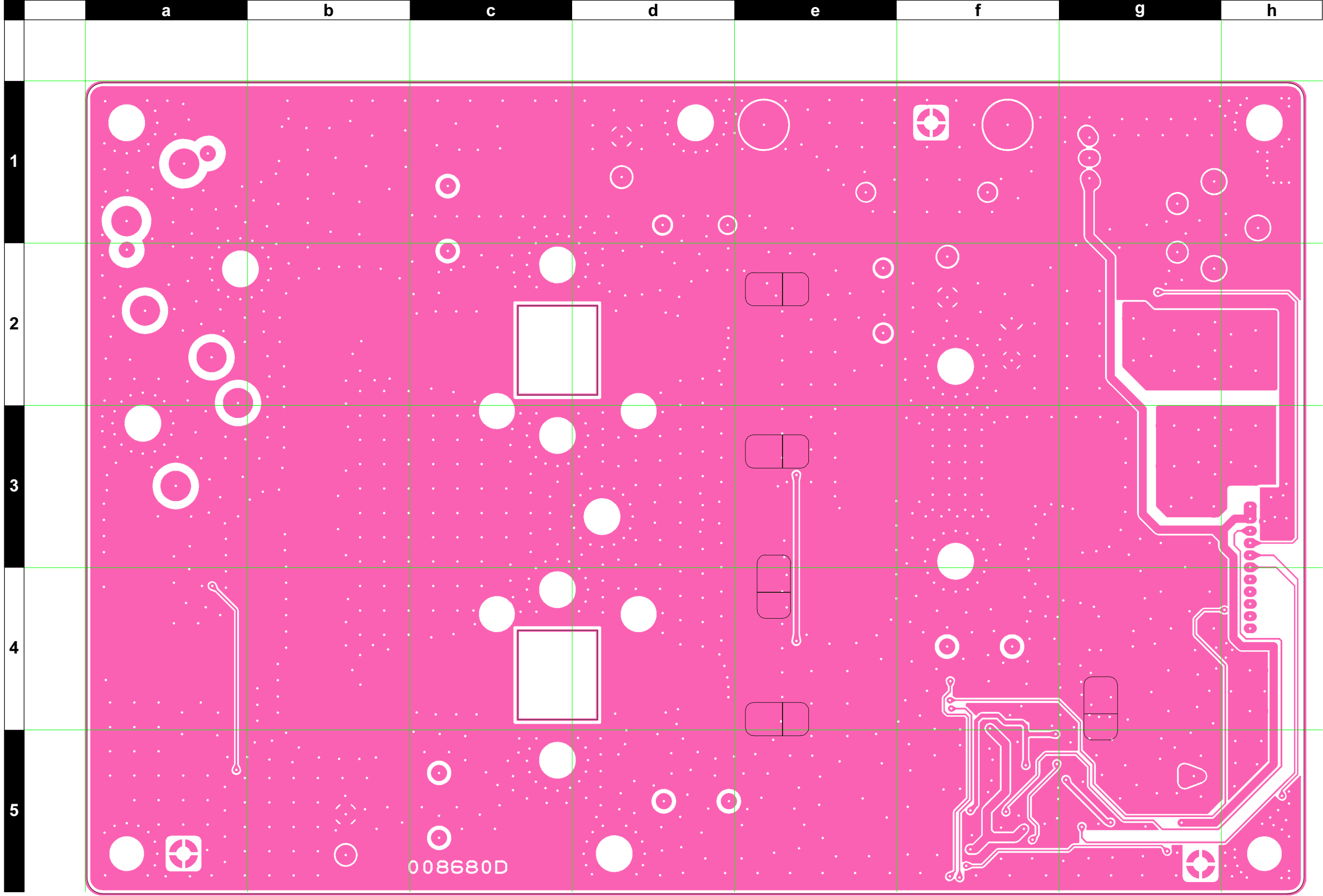
***PA Unit (Lot. 1~23)***

*Note*



PA Unit (Lot. 1~23)

Parts Layout (Side B)



# PA Unit (Lot. 1~23)

## Parts List

| REF                   | DESCRIPTION     | VALUE   | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.      | LOT | SIDE | LAY ADR |
|-----------------------|-----------------|---------|------|------|--------------------|-----------|------------|-----|------|---------|
| PCB with Components   |                 |         |      |      |                    | CS1815002 | VTX VER. C | 1-  |      |         |
|                       |                 |         |      |      |                    | CS1825003 | EXP VER. C | 1-  |      |         |
| Printed Circuit Board |                 |         |      |      | AC044N000          | FR008680D |            | 1-  |      |         |
| C 5001                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | A3      |
| C 5002                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | A4      |
| C 5003                | CHIP CAP.       | 120pF   | 50V  | CH   | GRM1882C1H121JA01D | K22174237 |            | 1-  | A    | A4      |
| C 5005                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | A4      |
| C 5006                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | A4      |
| C 5007                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | A3      |
| C 5008                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | A3      |
| C 5009                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174809 |            | 1-  | A    | B4      |
| C 5010                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | A3      |
| C 5011                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | B5      |
| C 5012                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | A3      |
| C 5013                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | A3      |
| C 5014                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | A2      |
| C 5015                | CHIP CAP.       | 1uF     | 10V  | B    | GRM40B105K10PT     | K22100802 |            | 1-  | A    | B4      |
| C 5016                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | B4      |
| C 5017                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | B4      |
| C 5018                | CHIP TA.CAP.    | 1uF     | 25V  |      | TEMSVA1E105M-8R    | K78140013 |            | 1-  | A    | A5      |
| C 5019                | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |            | 1-  | A    | B4      |
| C 5020                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | A5      |
| C 5021                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | C4      |
| C 5022                | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |            | 1-  | A    | B4      |
| C 5023                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | C4      |
| C 5025                | CHIP CAP.       | 39pF    | 50V  | CH   | GRM1882C1H390JA01D | K22174225 |            | 1-  | A    | D4      |
| C 5026                | CHIP CAP.       | 470pF   | 50V  | CH   | GRM1882C1H471JA01D | K22174249 |            | 1-  | A    | B3      |
| C 5027                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | B5      |
| C 5028                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | B5      |
| C 5029                | CHIP TA.CAP.    | 10uF    | 16V  |      | TEMSVB21C106M-8R   | K78120025 |            | 1-  | A    | B5      |
| C 5030                | CHIP CAP.       | 470pF   | 50V  | CH   | GRM1882C1H471JA01D | K22174249 |            | 1-  | A    | B5      |
| C 5031                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | B4      |
| C 5033                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | B5      |
| C 5034                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | B5      |
| C 5035                | CHIP CAP.       | 120pF   | 50V  | CH   | GRM1882C1H121JA01D | K22174237 |            | 1-  | A    | C2      |
| C 5037                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | C1      |
| C 5039                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | C1      |
| C 5040                | AL.ELECTRO.CAP. | 470uF   | 35V  |      | RE2-35V471MMA      | K40169026 |            | 1-  | A    | C2      |
| C 5043                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | C5      |
| C 5044                | CHIP CAP.       | 220pF   | 50V  | B    | GRM188B11H221KA01D | K22174801 |            | 1-  | A    | D3      |
| C 5045                | CHIP CAP.       | 0.01uF  | 50V  | B    | ECUV1H103KBG       | K22179562 |            | 1-  | A    | C5      |
| C 5046                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | D2      |
| C 5047                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | D5      |
| C 5048                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | D1      |
| C 5049                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | D5      |
| C 5050                | CHIP CAP.       | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |            | 1-  | A    | D3      |
| C 5051                | CHIP CAP.       | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |            | 1-  | A    | D3      |
| C 5054                | CHIP CAP.       | 56pF    | 500V | CH   | ERF22X6C2H560JD01L | K22273212 |            | 1-  | A    | F2      |
| C 5055                | CHIP CAP.       | 100pF   | 500V | CH   | ERE22X6C2H101JD01L | K22273204 |            | 1-  | A    | F4      |
| C 5056                | CHIP CAP.       | 470pF   | 50V  | CH   | GRM1882C1H471JA01D | K22174249 |            | 1-  | A    | G4      |
| C 5057                | CHIP CAP.       | 22pF    | 50V  | CH   | GRM1882C1H220JA01D | K22174219 |            | 1-  | A    | D3      |
| C 5058                | CHIP CAP.       | 22pF    | 50V  | CH   | GRM1882C1H220JA01D | K22174219 |            | 1-  | A    | D3      |
| C 5061                | CHIP CAP.       | 470pF   | 50V  | CH   | GRM1882C1H471JA01D | K22174249 |            | 1-  | A    | H3      |
| C 5062                | CHIP CAP.       | 56pF    | 50V  | CH   | GRM1882C1H560JA01D | K22174229 |            | 1-  | A    | D2      |
| C 5063                | CHIP CAP.       | 56pF    | 50V  | CH   | GRM1882C1H560JA01D | K22174229 |            | 1-  | A    | D4      |
| C 5064                | CHIP CAP.       | 6pF     | 50V  | CH   | GRM1882C1H6R0DZ01D | K22174207 |            | 1-  | A    | G5      |
| C 5065                | CHIP CAP.       | 6pF     | 50V  | CH   | GRM1882C1H6R0DZ01D | K22174207 |            | 1-  | A    | G3      |
| C 5066                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | G5      |
| C 5067                | FILM CAP.       | 120pF   | 500V |      | UC342H1200J-T      | K33279026 |            | 1-  | A    | F5      |
| C 5068                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |            | 1-  | A    | G4      |
| C 5069                | FILM CAP.       | 120pF   | 500V |      | UC342H1200J-T      | K33279026 |            | 1-  | A    | F1      |
| C 5070                | AL.ELECTRO.CAP. | 470uF   | 35V  |      | RE2-35V471MMA      | K40169026 |            | 1-  | A    | F5      |
| C 5071                | FILM CAP.       | 12pF    | 500V |      | UC232H0120J-T      | K33279020 |            | 1-  | A    | H3      |
| C 5072                | AL.ELECTRO.CAP. | 470uF   | 35V  |      | RE2-35V471MMA      | K40169026 |            | 1-  | A    | E1      |
| C 5073                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | F5      |
| C 5074                | CHIP CAP.       | 5pF     | 500V | CH   | ERF22X6C2H5R0CD01L | K22273216 |            | 1-  | A    | F2      |
| C 5075                | CHIP CAP.       | 5pF     | 500V | CH   | ERF22X6C2H5R0CD01L | K22273216 |            | 1-  | A    | F4      |
| C 5076                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |            | 1-  | A    | F1      |
| C 5077                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | F5      |
| C 5078                | FILM CAP.       | 33pF    | 500V |      | UC232H0330J-T      | K33279024 |            | 1-  | A    | G2      |
| C 5081                | CHIP CAP.       | 0.001uF | 50V  | B    | ECUV1H102KBN       | K22179550 |            | 1-  | A    | F1      |
| C 5082                | FILM CAP.       | 3pF     | 500V |      | UC232H0030D-T      | K33279027 |            | 1-  | A    | H2      |
| C 5083                | FILM CAP.       | 33pF    | 500V |      | UC232H0330J-T      | K33279024 |            | 1-  | A    | G3      |

# PA Unit (Lot. 1~23)

## Parts List

| REF    | DESCRIPTION     | VALUE   | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-----------------|---------|------|------|--------------------|-----------|-------|-----|------|---------|
| C 5084 | FILM CAP.       | 33pF    | 500V |      | UC232H0330J-T      | K33279024 |       | 1-  | A    | G4      |
| C 5085 | FILM CAP.       | 33pF    | 500V |      | UC232H0330J-T      | K33279024 |       | 1-  | A    | H2      |
| C 5086 | CHIP CAP.       | 47pF    | 500V | CH   | ERF22X6C2H470JD01L | K22273201 |       | 1-  | A    | G3      |
| C 5087 | CHIP CAP.       | 47pF    | 500V | CH   | ERF22X6C2H470JD01L | K22273201 |       | 1-  | A    | G3      |
| C 5088 | FILM CAP.       | 15pF    | 500V |      | UC232H0150J-T      | K33279028 |       | 1-  | A    | G1      |
| C 5089 | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |       | 1-  | A    | G1      |
| C 5092 | CHIP CAP.       | 68pF    | 50V  | CH   | GRM1882C1H680JA01D | K22174231 |       | 1-  | A    | B4      |
| C 5095 | CHIP CAP.       | 22pF    | 50V  | CH   | GRM1882C1H220JA01D | K22174219 |       | 1-  | A    | D4      |
| C 5098 | CHIP CAP.       | 56pF    | 500V | CH   | ERF22X6C2H560JD01L | K22273212 |       | 1-  | A    | F4      |
| C 5099 | CHIP CAP.       | 100pF   | 500V | CH   | ERE22X6C2H101JD01L | K22273204 |       | 1-  | A    | F2      |
| C 5103 | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | A4      |
| C 5105 | CHIP CAP.       | 39pF    | 50V  | CH   | GRM1882C1H390JA01D | K22174225 |       | 1-  | A    | D2      |
| C 5113 | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | B3      |
| C 5116 | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | B5      |
| C 5121 | CHIP CAP.       | 1uF     | 10V  | F    | GRM188F11A105ZA01D | K22105001 |       | 1-9 | A    | C5      |
| C 5122 | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |       | 1-  | A    | G4      |
| C 5124 | AL.ELECTRO.CAP. | 100uF   | 16V  |      | ECEV1CA101WP       | K48120012 |       | 1-  | A    | B2      |
| C 5125 | CERAMIC CAP.    | 6pF     | 500V | SL   | HM60SJSJL060D      | K00279010 |       | 1-  |      |         |
| C 5126 | CHIP CAP.       | 8pF     | 500V | CH   | ERF22X6C2H8R0DD01L | K22273214 |       | 1-  | A    | G4      |
| C 5132 | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | C2      |
| C 5133 | CHIP TA.CAP.    | 1uF     | 16V  |      | TESVA1C105M1-8R    | K78120009 |       | 1-9 | A    | B5      |
| C 5133 | CHIP TA.CAP.    | 0.1uF   | 35V  |      | TESVA1V104M1-8R    | K78160025 |       | 10- | A    | B5      |
| C 5134 | CHIP CAP.       | 8pF     | 500V | CH   | ERF22X6C2H8R0DD01L | K22273214 |       | 1-  | A    | F2      |
| C 5135 | CHIP CAP.       | 8pF     | 500V | CH   | ERF22X6C2H8R0DD01L | K22273214 |       | 1-  | A    | F4      |
| C 5136 | CERAMIC CAP.    | 12pF    | 500V | CH   | GRH111CH120J500PT  | K22273206 |       | 1-  | A    | F2      |
| C 5137 | CERAMIC CAP.    | 12pF    | 500V | CH   | GRH111CH120J500PT  | K22273206 |       | 1-  | A    | F4      |
| C 5138 | CHIP CAP.       | 47pF    | 500V | CH   | ERF22X6C2H470JD01L | K22273201 |       | 1-  | A    | E2      |
| C 5139 | CHIP CAP.       | 47pF    | 500V | CH   | ERF22X6C2H470JD01L | K22273201 |       | 1-  | A    | E4      |
| C 5140 | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B4      |
| C 5141 | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B4      |
| C 5142 | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |       | 1-  | A    | B5      |
| D 5001 | DIODE           |         |      |      | DSA3A1             | G2090445  |       | 1-  | A    | A3      |
| D 5002 | SURGE ABSORBER  |         |      |      | P6KA18             | Q9000721  |       | 1-  | A    | A3      |
| D 5003 | DIODE           |         |      |      | DSA3A1             | G2090445  |       | 1-  | A    | B2      |
| D 5004 | SURGE ABSORBER  |         |      |      | P6KA18             | Q9000721  |       | 1-  | A    | B2      |
| D 5005 | DIODE           |         |      |      | BAS316             | G2070716  |       | 1-  | A    | A1      |
| D 5006 | DIODE           |         |      |      | DSA3A1             | G2090445  |       | 1-  | A    | B1      |
| D 5007 | DIODE           |         |      |      | HSM88AS TR         | G2070170  |       | 1-  | A    | G4      |
| D 5008 | DIODE           |         |      |      | HSM88AS TR         | G2070170  |       | 1-  | A    | G3      |
| D 5009 | SURGE ABSORBER  |         |      |      | RCCA-301Q43UA      | Q9000756  |       | 1   | A    | G1      |
| D 5009 | SURGE ABSORBER  |         |      |      | RHCA-201Q43U       | Q9000825  |       | 2-  | A    | G1      |
| D 5010 | DIODE           |         |      |      | HZM9.1NB3TR        | G2070404  |       | 1-  | A    | B2      |
| D 5011 | DIODE           |         |      |      | MC2848-T11-1       | G2070694  |       | 1-  | A    | C5      |
| D 5012 | SURGE ABSORBER  |         |      |      | DSP201M-S00B       | Q9000375  |       | 1-  | A    | G1      |
| D 5015 | SURGE ABSORBER  |         |      |      | TVSF0805           | Q9000807  |       | 1-  | A    | E2      |
| D 5016 | SURGE ABSORBER  |         |      |      | TVSF0805           | Q9000807  |       | 1-  | A    | E4      |
| D 5017 | DIODE           |         |      |      | HZM5.6NB2 TR       | G2070722  |       | 1-  | A    | D2      |
| D 5018 | DIODE           |         |      |      | HZM5.6NB2 TR       | G2070722  |       | 1-  | A    | D5      |
| D 5019 | DIODE           |         |      |      | DA221 TL           | G2070178  |       | 1-  | A    | B5      |
| D 5020 | SURGE ABSORBER  |         |      |      | TVSF0805           | Q9000807  |       | 1-  | A    | D1      |
| D 5021 | SURGE ABSORBER  |         |      |      | TVSF0805           | Q9000807  |       | 1-  | A    | E5      |
| D 5022 | DIODE           |         |      |      | 1SS400 TE61        | G2070634  |       | 10- |      |         |
| F 5001 | CHIP FUSE       | 1A      |      |      | R429 001           | Q0000089  |       | 1-  | A    | B1      |
| FB5001 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5002 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5003 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5004 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5005 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5006 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5007 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5008 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5009 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5010 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5011 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| FB5012 | FERRITE BEADS   |         |      |      | 4A2 RI3X3-1        | L9190001  |       | 1-  |      |         |
| J 5001 | CONNECTOR       |         |      |      | TMP-J01X-V6        | P1090210  |       | 1-  | A    | A5      |
| J 5002 | CONNECTOR       |         |      |      | IL-Y-11P-S15T2-E   | P0090653  |       | 1-  | A    | A3      |
| J 5003 | TERMINAL        |         |      |      | Y106               | S5000179  |       | 1-  | A    | A2      |
| J 5004 | TERMINAL        |         |      |      | Y106               | S5000179  |       | 1-  | A    | A3      |
| JP5001 | WIRE ASSY       |         |      |      | GRN 30 2/2         | T50503000 |       | 1-  |      |         |
| JP5002 | WIRE ASSY       |         |      |      | GRN 30 2/2         | T50503000 |       | 1-  |      |         |
| JP5003 | WIRE ASSY       |         |      |      | GRN 30 2/2         | T50503000 |       | 1-  |      |         |
| JP5004 | WIRE ASSY       |         |      |      | GRN 20 2/2         | T50502000 |       | 10- |      |         |



# PA Unit (Lot. 1~23)

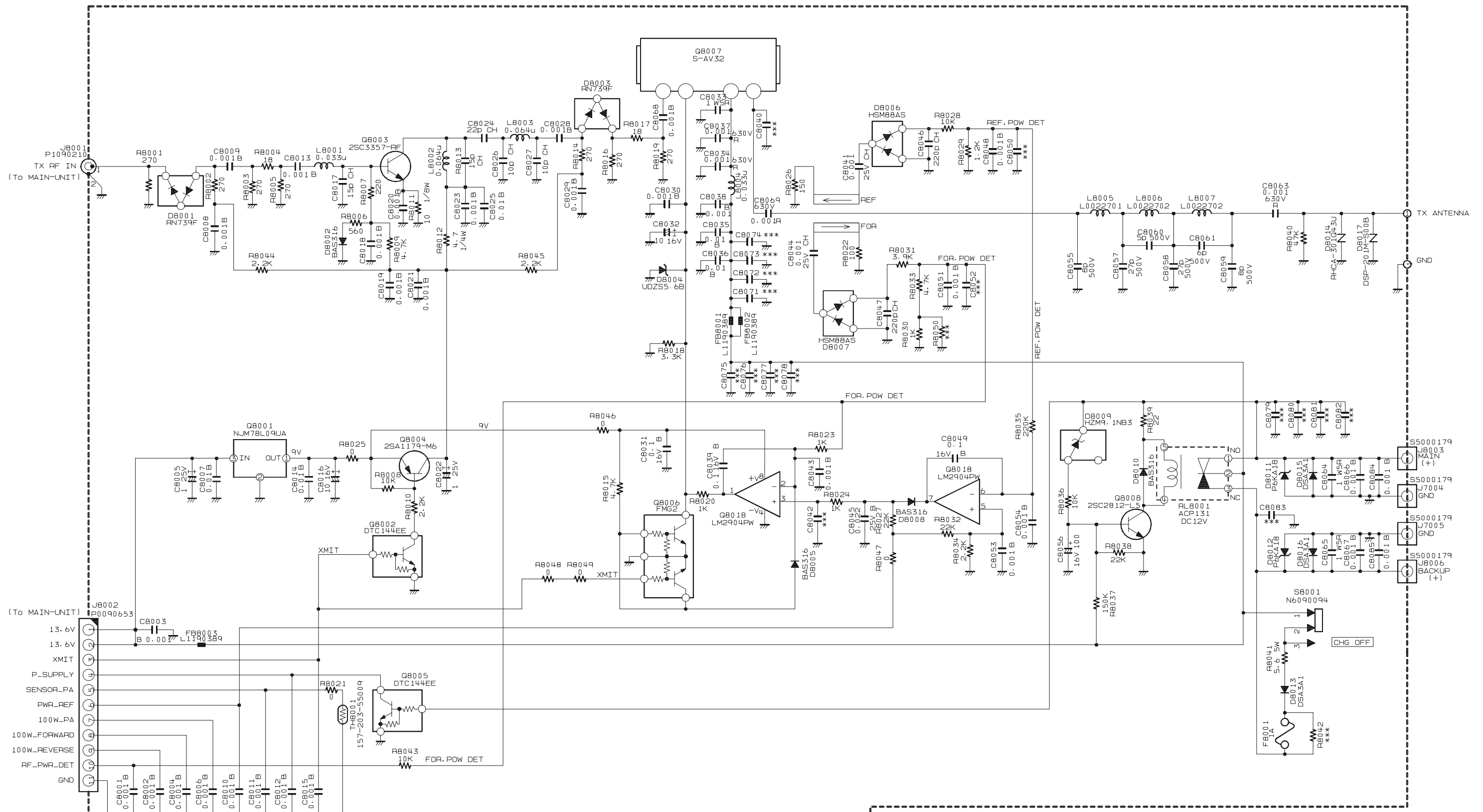
## Parts List

| REF    | DESCRIPTION | VALUE    | V/W   | TOL. | MFR'S DESIG      | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|----------|-------|------|------------------|-----------|-------|-----|------|---------|
| L 5001 | CHIP COIL   | 0.0088uH |       |      | LQW31HN8N8J03L   | L1690250  |       | 1-  | A    | B4      |
| L 5002 | CHIP COIL   | 0.082uH  |       |      | C2520C-82NK      | L1690543  |       | 1-  | A    | B4      |
| L 5003 | M.RFC       | 0.11uH   |       |      | C6342A-R11G      | L1691087  |       | 1-  | A    | C2      |
| L 5004 | M.RFC       | 0.0185uH |       |      | C3328A-18NG      | L1691078  |       | 1-  | A    | D3      |
| L 5005 | M.RFC       | 0.13uH   |       |      | C6342A-R13G      | L1691088  |       | 1-  | A    | F2      |
| L 5006 | M.RFC       | 0.13uH   |       |      | C6342A-R13G      | L1691088  |       | 1-  | A    | F5      |
| L 5007 | COIL C1     |          |       |      | 3.0T5.5D1.6PEW R | L0022701  |       | 1-  | A    | G2      |
| L 5008 | COIL B3     |          |       |      | 3.0T6.0D1.6PEW R | L0022702  |       | 1-  | A    | H2      |
| L 5009 | M.RFC       | 0.008uH  |       |      | C3328A-8N0G      | L1691076  |       | 1-  | A    | D4      |
| L 5010 | COIL B3     |          |       |      | 3.0T6.0D1.6PEW R | L0022702  |       | 1-  | A    | G1      |
| L 5011 | CHIP COIL   | 0.022uH  |       |      | C2520C-22NK      | L1690536  |       | 1-  | A    | B4      |
| L 5012 | M.RFC       | 0.0025uH |       |      | C3328A-2N5K      | L1691074  |       | 1-  | A    | B3      |
| L 5013 | M.RFC       | 0.022uH  |       |      | C6328A-22NG      | L1691080  |       | 1-  | A    | C3      |
| L 5014 | M.RFC       | 0.005uH  |       |      | C3328A-5N0J      | L1691075  |       | 1-  | A    | D3      |
| L 5015 | M.RFC       | 0.0185uH |       |      | C3328A-18NG      | L1691078  |       | 1-  | A    | D3      |
| L 5016 | M.RFC       | 0.008uH  |       |      | C3328A-8N0G      | L1691076  |       | 1-  | A    | D2      |
| L 5018 | COIL        | 0.015uH  |       |      | AS1203-15NK      | L0022543  |       | 1-  | A    | G2      |
| L 5020 | COIL        | 0.015uH  |       |      | AS1203-15NK      | L0022543  |       | 1-  | A    | G4      |
| L 5021 | COIL A1     |          |       |      | 6.5T5.0D0.8UEW R | L0022799  |       | 1-  | A    | F3      |
| L 5022 | M.RFC       | 33uH     |       |      | LK1608 330M-T    | L1690690  |       | 1-9 | A    | C4      |
| L 5023 | M.RFC       | 33uH     |       |      | LK1608 330M-T    | L1690690  |       | 1-  | A    | B5      |
| L 5024 | M.RFC       | 33uH     |       |      | LK1608 330M-T    | L1690690  |       | 1-9 | A    | D2      |
| L 5025 | M.RFC       | 33uH     |       |      | LK1608 330M-T    | L1690690  |       | 1-9 | A    | D5      |
| P 5001 | WIRE ASSY   |          |       |      | RED 125 <7>/<7>  | T9318109  |       | 1-  |      |         |
| Q 5001 | TRANSISTOR  |          |       |      | 2SC3357-T2       | G3333577  |       | 1-  | A    | B4      |
| Q 5002 | TRANSISTOR  |          |       |      | 2SB1122S-TD      | G3211228S |       | 1-  | A    | B4      |
| Q 5003 | IC          |          |       |      | NJM78L09UA-TE2   | G1091305  |       | 1-  | A    | A5      |
| Q 5004 | TRANSISTOR  |          |       |      | 2SC4116GR TE85R  | G3341167G |       | 1-  | A    | B4      |
| Q 5005 | IC          |          |       |      | TA75S01F TE85R   | G1091593  |       | 1-  | A    | B5      |
| Q 5006 | TRANSISTOR  |          |       |      | DTC144EE TL      | G3070075  |       | 1-  | A    | A2      |
| Q 5007 | TRANSISTOR  |          |       |      | 2SB1132 T100 R   | G3211327R |       | 1-  | A    | C5      |
| Q 5008 | FET         |          |       |      | PD55003(TAPE)    | G3070338  |       | 1-  | A    | C3      |
| Q 5009 | TRANSISTOR  |          |       |      | DTC144EE TL      | G3070075  |       | 1-  | A    | B5      |
| Q 5010 | TRANSISTOR  |          |       |      | 2SC2812L5-TA     | G3328127E |       | 1-  | A    | B1      |
| Q 5012 | IC          |          |       |      | TC4S66F TE85R    | G1090893  |       | 1-  | A    | C4      |
| Q 5013 | IC          |          |       |      | TC4S66F TE85R    | G1090893  |       | 1-  | A    | C4      |
| Q 5014 | TRANSISTOR  |          |       |      | 2SC4154-T11-1E   | G3341548E |       | 1-  | A    | C5      |
| Q 5015 | FET         |          |       |      | PD55025STR       | G3070319  |       | 1-  | A    | E2      |
| Q 5016 | FET         |          |       |      | PD55025STR       | G3070319  |       | 1-  | A    | E4      |
| Q 5017 | FET         |          |       |      | 2SJ355-T1        | G3703558  |       | 1-  | A    | B5      |
| Q 5018 | TRANSISTOR  |          |       |      | 2SA733AP(T)      | G3107334P |       | 1-  |      |         |
| Q 5019 | TRANSISTOR  |          |       |      | 2SC945AQ         | G3309451Q |       | 2-  |      |         |
| R 5001 | CHIP RES.   | 560      | 1/16W | 5%   | RMC1/16 561JATP  | J24185561 |       | 1-  | A    | A4      |
| R 5002 | CHIP RES.   | 2.2      | 1/8W  | 5%   | RMC1/8T 2R2J     | J24215229 |       | 1-  | A    | B4      |
| R 5003 | CHIP RES.   | 2.2k     | 1/16W | 5%   | RMC1/16 222JATP  | J24185222 |       | 1-  | A    | B4      |
| R 5004 | CHIP RES.   | 4.7      | 1/4W  | 5%   | RMC1/4 4R7JATP   | J24245479 |       | 1-  | A    | B4      |
| R 5005 | CHIP RES.   | 22       | 1/16W | 5%   | RMC1/16 220JATP  | J24185220 |       | 1-  | A    | B4      |
| R 5006 | CHIP RES.   | 470      | 1/16W | 5%   | RMC1/16 471JATP  | J24185471 |       | 1-  | A    | B4      |
| R 5007 | CHIP RES.   | 1.8k     | 1/16W | 5%   | RMC1/16 182JATP  | J24185182 |       | 1-9 | A    | C4      |
| R 5008 | CHIP RES.   | 390      | 1/16W | 5%   | RMC1/16 391JATP  | J24185391 |       | 1-  | A    | B4      |
| R 5009 | CHIP RES.   | 1.5k     | 1/16W | 5%   | RMC1/16 152JATP  | J24185152 |       | 1-  | A    | B5      |
| R 5010 | CHIP RES.   | 1k       | 1/16W | 5%   | RMC1/16 102JATP  | J24185102 |       | 1-  | A    | B5      |
| R 5012 | CHIP RES.   | 15       | 1/16W | 5%   | RMC1/16 150JATP  | J24185150 |       | 1-  | A    | B3      |
| R 5013 | CHIP RES.   | 10       | 1/2W  | 5%   | RMC1/2 100JCTP   | J24275100 |       | 1-  | A    | B4      |
| R 5014 | CHIP RES.   | 39k      | 1/16W | 5%   | RMC1/16 393JATP  | J24185393 |       | 1-  | A    | B5      |
| R 5017 | CHIP RES.   | 51       | 1/2W  | 5%   | RMC1/2 510JTE    | J24275510 |       | 1-  | A    | B3      |
| R 5018 | CHIP RES.   | 680      | 1/16W | 5%   | RMC1/16 681JATP  | J24185681 |       | 1-  | A    | C5      |
| R 5019 | CHIP RES.   | 2.2k     | 1/16W | 5%   | RMC1/16 222JATP  | J24185222 |       | 1-  | A    | C5      |
| R 5020 | CHIP RES.   | 10k      | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | B2      |
| R 5021 | CHIP RES.   | 22       | 1/10W | 5%   | RMC1/10T 220J    | J24205220 |       | 1-  | A    | A2      |
| R 5022 | CHIP RES.   | 100k     | 1/16W | 5%   | RMC1/16 104JATP  | J24185104 |       | 1-  | A    | B5      |
| R 5023 | CHIP RES.   | 1k       | 1/16W | 5%   | RMC1/16 102JATP  | J24185102 |       | 1   | A    | B5      |
| R 5023 | CHIP RES.   | 5.6k     | 1/16W | 5%   | RMC1/16 562JATP  | J24185562 |       | 2-  | A    | B5      |
| R 5024 | CHIP RES.   | 22k      | 1/16W | 5%   | RMC1/16 223JATP  | J24185223 |       | 1-  | A    | B5      |
| R 5026 | CHIP RES.   | 22k      | 1/16W | 5%   | RMC1/16 223JATP  | J24185223 |       | 1-  | A    | B2      |
| R 5027 | CHIP RES.   | 1.5k     | 1/16W | 5%   | RMC1/16 152JATP  | J24185152 |       | 1-  | A    | C5      |
| R 5029 | CHIP RES.   | 10k      | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | B5      |
| R 5030 | CHIP RES.   | 5.6      | 1W    | 5%   | RMC1 5R6JTE      | J24305569 |       | 1-  | A    | C5      |
| R 5031 | CEMENT RES. | 5.6      | 5W    | 10%  | ERF-5AK5R6       | J30376569 |       | 1-  | A    | D1      |
| R 5035 | CHIP RES.   | 33k      | 1/16W | 5%   | RMC1/16 333JATP  | J24185333 |       | 1-  | A    | D1      |
| R 5036 | CHIP RES.   | 33k      | 1/16W | 5%   | RMC1/16 333JATP  | J24185333 |       | 1-  | A    | D5      |
| R 5037 | CHIP RES.   | 100      | 1/10W | 5%   | RMC1/10T 101J    | J24205101 |       | 1-  | A    | G4      |
| R 5038 | CHIP RES.   | 18       | 1/2W  | 5%   | RMC1/2 180JTE    | J24275180 |       | 1-  | A    | E5      |

# PA Unit (Lot. 1~23)

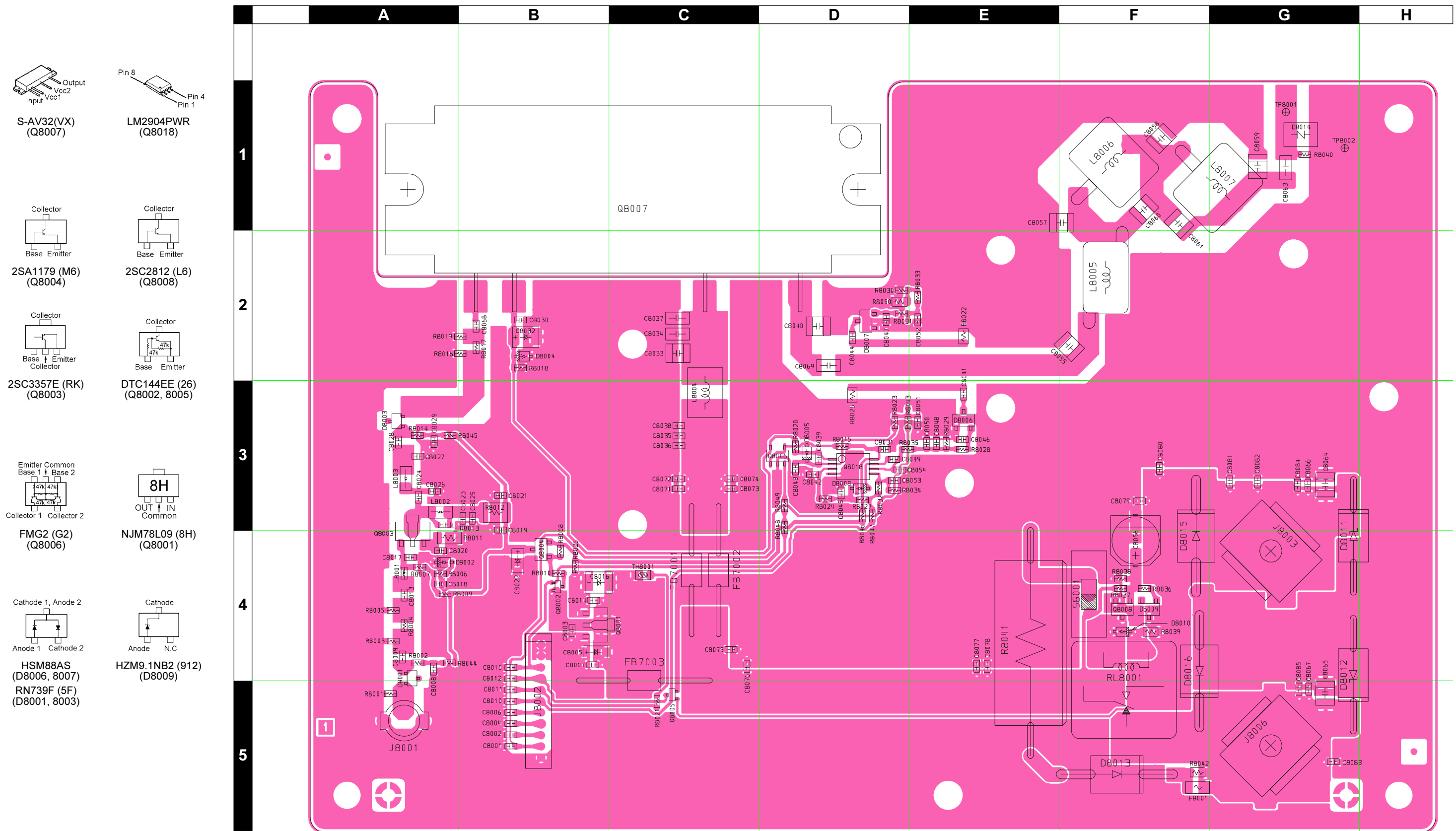
## Parts List

| REF    | DESCRIPTION      | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|------------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 5039 | CHIP RES.        | 18    | 1/2W  | 5%   | RMC1/2 180JTE   | J24275180 |       | 1-  | A    | E1      |
| R 5040 | CHIP RES.        | 100   | 1/10W | 5%   | RMC1/10T 101J   | J24205101 |       | 1-  | A    | H4      |
| R 5041 | CHIP RES.        | 15    | 1/2W  | 5%   | RMC1/2 150JCTP  | J24275150 |       | 1-  | A    | E4      |
| R 5042 | CHIP RES.        | 15    | 1/2W  | 5%   | RMC1/2 150JCTP  | J24275150 |       | 1-  | A    | E2      |
| R 5044 | CHIP RES.        | 5.6k  | 1/16W | 5%   | RMC1/16 562JATP | J24185562 |       | 1-  | A    | G5      |
| R 5045 | CHIP RES.        | 15k   | 1/16W | 5%   | RMC1/16 153JATP | J24185153 |       | 1-  | A    | G5      |
| R 5046 | CHIP RES.        | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | G3      |
| R 5047 | CHIP RES.        | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | G3      |
| R 5049 | CHIP RES.        | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | G1      |
| R 5050 | CHIP RES.        | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B4      |
| R 5051 | CHIP RES.        | 2.7k  | 1/16W | 5%   | RMC1/16 272JATP | J24185272 |       | 1-  | A    | C5      |
| R 5055 | CHIP RES.        | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | C4      |
| R 5056 | CHIP RES.        | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |       | 1-  | A    | A5      |
| R 5057 | CHIP RES.        | 1.8k  | 1/16W | 5%   | RMC1/16 182JATP | J24185182 |       | 1-  | A    | G5      |
| R 5058 | CHIP RES.        | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 |       | 1-  | A    | B5      |
| R 5059 | CHIP RES.        | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 |       | 1-  | A    | B5      |
| R 5060 | CHIP RES.        | 150k  | 1/16W | 5%   | RMC1/16 154JATP | J24185154 |       | 1-  | A    | B1      |
| R 5062 | CHIP RES.        | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B5      |
| R 5063 | CARBON FILM RES. | 22k   | 1/6W  | 5%   | RD16UJ223 22K   | J02225223 |       | 2-  |      |         |
| R 5064 | CHIP RES.        | 220   | 1W    | 5%   | RMC1 221JTE     | J24305221 |       | 10- |      |         |
| R 5065 | CHIP RES.        | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |       | 10- |      |         |
| R 5066 | CHIP RES.        | 100   | 1/16W | 5%   | RMC1/16 101JATP | J24185101 |       | 10- |      |         |
| R 5067 | CHIP RES.        | 470   | 1W    | 5%   | RMC1 471JTE     | J24305471 |       | 13- |      |         |
| RL5001 | RELAY            |       | DC12V |      | ACP131 DC12V    | M1190152  |       | 1-  | A    | A2      |
| S 5001 | SLIDE SWITCH     |       |       |      | SSSS912N-2A-OR  | N6090094  |       | 1-  | A    | B1      |
| TH5001 | THERMISTOR       |       |       |      | 157-203-55009TP | G9090045  |       | 1-  | A    | E5      |
| TH5002 | THERMISTOR       |       |       |      | 157-502-53002TP | G9090049  |       | 1-  | A    | G4      |
| VR5001 | POT.             | 2.2k  |       |      | RH03A3AJ3X 2.2K | J51807222 |       | 1-  | A    | C5      |
| VR5002 | POT.             | 2.2k  |       |      | RH03A3AJ3X 2.2K | J51807222 |       | 1-  | A    | C4      |
|        | SHIELD PLATE     |       |       |      | (PA)            | RA0506200 |       | 1-  |      |         |



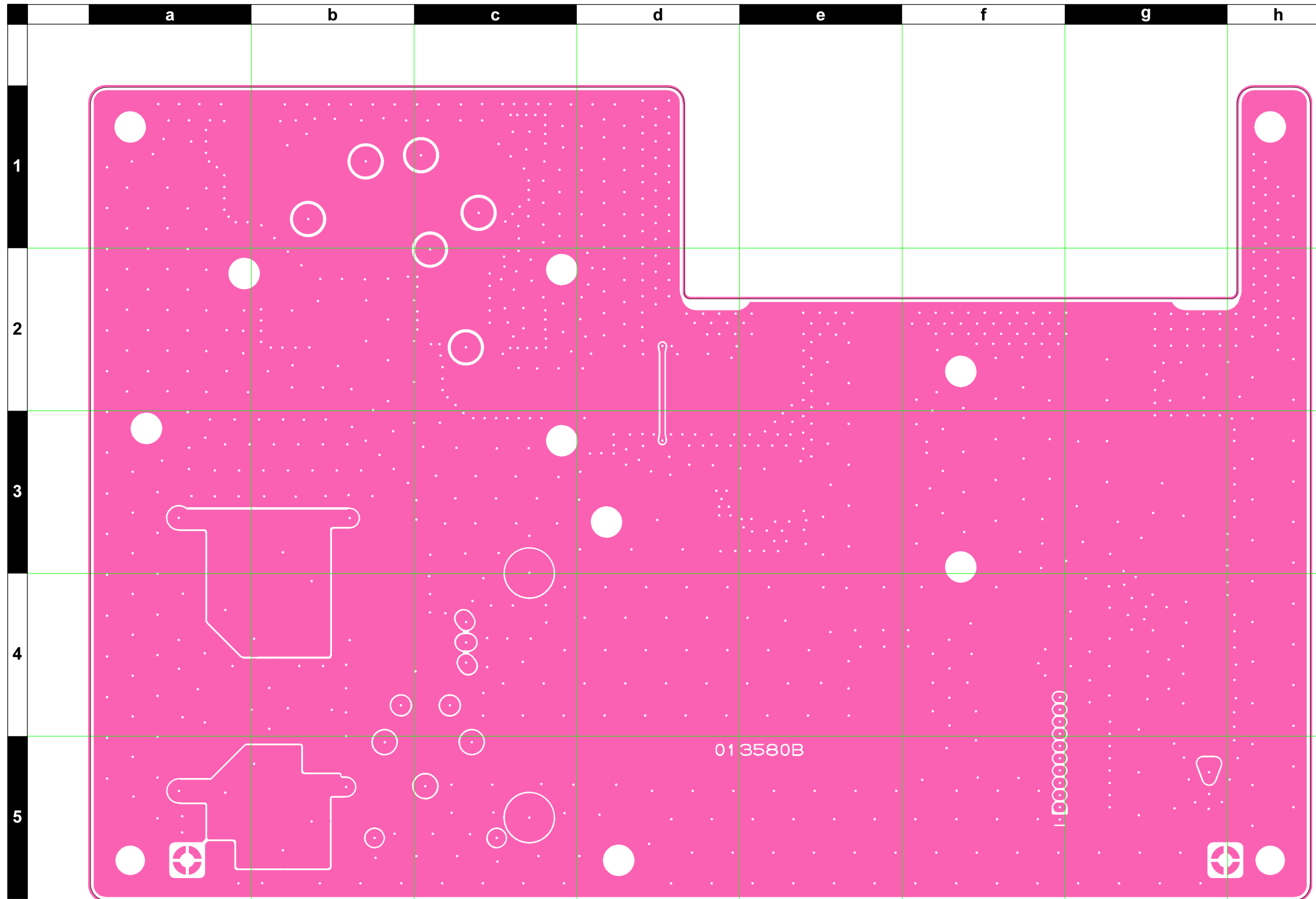
***PA-2 Unit (Lot. 24~)***

***Note:***



**PA-2 Unit (Lot. 24~)**

**Parts Layout (Side B)**



# PA-2 Unit (Lot. 24~)

## Parts List

| REF                   | DESCRIPTION     | VALUE   | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.  | LOT   | SIDE | LAY ADR |
|-----------------------|-----------------|---------|------|------|--------------------|-----------|--------|-------|------|---------|
| PCB with Components   |                 |         |      |      |                    | CB3196001 | VER. C |       |      |         |
|                       |                 |         |      |      |                    | CB3196002 | VER. A |       |      |         |
| Printed Circuit Board |                 |         |      |      | AC044N000          | FR013580B |        | 24-   |      |         |
| C 8001                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B5      |
| C 8002                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B5      |
| C 8003                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B4      |
| C 8004                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B5      |
| C 8005                | CHIP TA.CAP.    | 1uF     | 25V  |      | TEMSVA1E105M-8R    | K78140013 |        | 24-   | A    | B4      |
| C 8006                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B5      |
| C 8007                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 24-   | A    | B4      |
| C 8008                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | A4      |
| C 8009                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | A4      |
| C 8010                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B5      |
| C 8011                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B5      |
| C 8012                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B4      |
| C 8013                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | A4      |
| C 8014                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 24-   | A    | B4      |
| C 8015                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B4      |
| C 8016                | CHIP TA.CAP.    | 10uF    | 16V  |      | TEMSVB21C106M-8R   | K78120025 |        | 24-   | A    | B4      |
| C 8017                | CHIP CAP.       | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 24-   | A    | A4      |
| C 8018                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | A4      |
| C 8019                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B3      |
| C 8020                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | A4      |
| C 8021                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B3      |
| C 8022                | CHIP TA.CAP.    | 1uF     | 25V  |      | TEMSVA1E105M-8R    | K78140013 |        | 24-   | A    | B4      |
| C 8023                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B3      |
| C 8024                | CHIP CAP.       | 22pF    | 50V  | CH   | GRM1882C1H220JA01D | K22174219 |        | 24-   | A    | A3      |
| C 8025                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 24-   | A    | B3      |
| C 8026                | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1882C1H100JA01D | K22174211 |        | 24-   | A    | A3      |
| C 8027                | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1882C1H100JA01D | K22174211 |        | 24-   | A    | A3      |
| C 8028                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | A3      |
| C 8029                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | A3      |
| C 8030                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B2      |
| C 8031                | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 24-   | A    | D3      |
| C 8032                | CHIP TA.CAP.    | 10uF    | 16V  |      | TEMSVB21C106M-8R   | K78120025 |        | 24-   | A    | B2      |
| C 8033                | CHIP CAP.       | 1uF     | 50V  | B    | GRM42-2B105K50PT   | K22175801 |        | 24-   | A    | C2      |
| C 8034                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |        | 24-   | A    | C2      |
| C 8035                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 24-   | A    | C3      |
| C 8036                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 24-   | A    | C3      |
| C 8037                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |        | 24-   | A    | C2      |
| C 8038                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | C3      |
| C 8039                | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 24-   | A    | D3      |
| C 8041                | CHIP CAP.       | 0.001uF | 25V  | CH   | GRM1882C1E102JA01D | K22144204 |        | 24-   | A    | E3      |
| C 8043                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | D3      |
| C 8044                | CHIP CAP.       | 0.001uF | 25V  | CH   | GRM1882C1E102JA01D | K22144204 |        | 24-   | A    | D2      |
| C 8045                | CHIP CAP.       | 0.022uF | 25V  | B    | GRM39B223K25PT     | K22144807 |        | 24-   | A    | D3      |
| C 8046                | CHIP CAP.       | 220pF   | 50V  | CH   | GRM1882C1H221JA01D | K22174243 |        | 24-   | A    | E3      |
| C 8047                | CHIP CAP.       | 220pF   | 50V  | CH   | GRM1882C1H221JA01D | K22174243 |        | 24-   | A    | D2      |
| C 8048                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | E3      |
| C 8049                | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 24-   | A    | D3      |
| C 8051                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | E3      |
| C 8053                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | D3      |
| C 8054                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | D3      |
| C 8055                | FILM CAP.       | 8pF     | 500V |      | UC232H0080D-T      | K33279005 |        | 24-   | A    | F2      |
| C 8056                | AL.ELECTRO.CAP. | 100uF   | 16V  |      | ECEV1CA101WP       | K48120012 |        | 24-   | A    | F4      |
| C 8057                | FILM CAP.       | 27pF    | 500V |      | UC232H0270J-T      | K33279023 |        | 24-   | A    | F1      |
| C 8058                | FILM CAP.       | 27pF    | 500V |      | UC232H0270J-T      | K33279023 |        | 24-   | A    | F1      |
| C 8059                | FILM CAP.       | 8pF     | 500V |      | UC232H0080D-T      | K33279005 |        | 24-   | A    | G1      |
| C 8060                | FILM CAP.       | 5pF     | 500V |      | UC232H0050D-T      | K33279010 |        | 24-   | A    | F1      |
| C 8061                | FILM CAP.       | 6pF     | 500V |      | UC232H0060D-T      | K33279045 |        | 24-   | A    | F1      |
| C 8063                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |        | 24-   | A    | G1      |
| C 8064                | CHIP CAP.       | 1uF     | 50V  | B    | GRM42-2B105K50PT   | K22175801 |        | 24-   | A    | G3      |
| C 8065                | CHIP CAP.       | 1uF     | 50V  | B    | GRM42-2B105K50PT   | K22175801 |        | 24-   | A    | G5      |
| C 8066                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174809 |        | 24-   | A    | G3      |
| C 8067                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174809 |        | 24-   | A    | G5      |
| C 8068                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 24-   | A    | B2      |
| C 8069                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |        | 24-28 | A    | D2      |
| C 8069                | CHIP CAP.       | 47pF    | 500V | CH   | CF316CH470J500AT   | K22271263 | VER. A | 29-   | A    | D2      |
| C 8069                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 | VER. C | 29-   | A    | D2      |
| C 8084                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174809 |        | 24-   | A    | G3      |
| C 8085                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174809 |        | 24-   | A    | G5      |
| C 8086                | CHIP CAP.       | 5pF     | 50V  | CH   | GRM1882C1H5R0CZ01D | K22174206 | VER. A | 29-   |      |         |
| C 8086                | CHIP CAP.       | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 | VER. C | 29-   |      |         |

# PA-2 Unit (Lot. 24~)

## Parts List

| REF    | DESCRIPTION    | VALUE   | V/W   | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT   | SIDE | LAY ADR |
|--------|----------------|---------|-------|------|--------------------|-----------|-------|-------|------|---------|
| D 8001 | DIODE          |         |       |      | RN739F T106        | G2070626  |       | 24-   | A    | A4      |
| D 8002 | DIODE          |         |       |      | BAS316             | G2070716  |       | 24-   | A    | A4      |
| D 8003 | DIODE          |         |       |      | RN739F T106        | G2070626  |       | 24-   | A    | A3      |
| D 8004 | DIODE          |         |       |      | UDZS TE-17 5.6B    | G2070910  |       | 24-   | A    | B2      |
| D 8005 | DIODE          |         |       |      | BAS316             | G2070716  |       | 24-   | A    | D3      |
| D 8006 | DIODE          |         |       |      | HSM88AS TR         | G2070170  |       | 24-   | A    | E3      |
| D 8007 | DIODE          |         |       |      | HSM88AS TR         | G2070170  |       | 24-   | A    | D2      |
| D 8008 | DIODE          |         |       |      | BAS316             | G2070716  |       | 24-   | A    | D3      |
| D 8009 | DIODE          |         |       |      | HZM9.1NB3TR        | G2070404  |       | 24-   | A    | F4      |
| D 8010 | DIODE          |         |       |      | BAS316             | G2070716  |       | 24-   | A    | F4      |
| D 8011 | SURGE ABSORBER |         |       |      | P6KA18             | Q9000721  |       | 24-   | A    | G3      |
| D 8012 | SURGE ABSORBER |         |       |      | P6KA18             | Q9000721  |       | 24-   | A    | G5      |
| D 8013 | DIODE          |         |       |      | DSA3A1             | G2090445  |       | 24-   | A    | F5      |
| D 8014 | SURGE ABSORBER |         |       |      | RHCA-301Q43U       | Q9000827  |       | 24-   | A    | G1      |
| D 8015 | DIODE          |         |       |      | DSA3A1             | G2090445  |       | 24-   | A    | F3      |
| D 8016 | DIODE          |         |       |      | DSA3A1             | G2090445  |       | 24-   | A    | F5      |
| D 8017 | SURGE ABSORBER |         |       |      | DSP201M-S00B       | Q9000375  |       | 24-   | A    |         |
| F 8001 | CHIP FUSE      | 1A      |       |      | R429 001           | Q0000089  |       | 24-   | A    | F5      |
| FB8001 | M.RFC          |         |       |      | FBA03VA450AB-00    | L1190389  |       | 24-   |      |         |
| FB8002 | M.RFC          |         |       |      | FBA03VA450AB-00    | L1190389  |       | 24-   |      |         |
| FB8003 | M.RFC          |         |       |      | FBA03VA450AB-00    | L1190389  |       | 24-   |      |         |
| J 8001 | CONNECTOR      |         |       |      | TMP-J01X-V6        | P1090210  |       | 24-   | A    | A5      |
| J 8002 | CONNECTOR      |         |       |      | IL-Y-11P-S15T2-E   | P0090653  |       | 24-   | A    | B4      |
| J 8003 | TERMINAL       |         |       |      | Y106               | S5000179  |       | 24-   | A    | G4      |
| J 8006 | TERMINAL       |         |       |      | Y106               | S5000179  |       | 24-   | A    | G5      |
| L 8001 | M.RFC          | 0.033uH |       |      | HK1608 33NJ-T      | L1690522  |       | 24-   | A    | A4      |
| L 8002 | CHIP COIL      | 0.064uH |       |      | LQW31HN64NJ03L     | L1690258  |       | 24-   | A    | A3      |
| L 8003 | CHIP COIL      | 0.064uH |       |      | LQW31HN64NJ03L     | L1690258  |       | 24-   | A    | A3      |
| L 8004 | COIL           | 0.033uH |       |      | AS1005-33NK        | L0022546  |       | 24-   | A    | C3      |
| L 8005 | COIL C1        |         |       |      | 3.0T5.5D1.6PEW R   | L0022701  |       | 24-   | A    | F2      |
| L 8006 | COIL B3        |         |       |      | 3.0T6.0D1.6PEW R   | L0022702  |       | 24-   | A    | F1      |
| L 8007 | COIL B3        |         |       |      | 3.0T6.0D1.6PEW R   | L0022702  |       | 24-   | A    | F1      |
| Q 8001 | IC             |         |       |      | NJM78L09UA-TE2     | G1091305  |       | 24-   | A    | B4      |
| Q 8002 | TRANSISTOR     |         |       |      | DTC144EE TL        | G3070075  |       | 24-   | A    | B4      |
| Q 8003 | TRANSISTOR     |         |       |      | 2SC3357-T2 RF      | G3333577F |       | 24-   | A    | A3      |
| Q 8004 | TRANSISTOR     |         |       |      | 2SA1179M6-TA       | G3111797F |       | 24-   | A    | B4      |
| Q 8005 | TRANSISTOR     |         |       |      | DTC144EE TL        | G3070075  |       | 24-   | A    | C5      |
| Q 8006 | TRANSISTOR     |         |       |      | FMG2 T148          | G3070015  |       | 24-   | A    | D3      |
| Q 8007 | IC             |         |       |      | S-AV32(VX)         | G1093916  |       | 24-   | A    | A1      |
| Q 8008 | TRANSISTOR     |         |       |      | 2SC2812L5-TA       | G3328127E |       | 24-   | A    | F4      |
| Q 8018 | IC             |         |       |      | LM2904PWR          | G1094010  |       | 24-   | A    | D3      |
| R 8001 | CHIP RES.      | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 24-   | A    | A5      |
| R 8002 | CHIP RES.      | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 24-   | A    | A4      |
| R 8003 | CHIP RES.      | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 24-   | A    | A4      |
| R 8004 | CHIP RES.      | 18      | 1/16W | 5%   | RMC1/16 180JATP    | J24185180 |       | 24-   | A    | A4      |
| R 8005 | CHIP RES.      | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 24-   | A    | A4      |
| R 8006 | CHIP RES.      | 560     | 1/16W | 5%   | RMC1/16 561JATP    | J24185561 |       | 24-   | A    | A4      |
| R 8007 | CHIP RES.      | 220     | 1/16W | 5%   | RMC1/16 221JATP    | J24185221 |       | 24-   | A    | A4      |
| R 8008 | CHIP RES.      | 10k     | 1/16W | 5%   | RMC1/16 103JATP    | J24185103 |       | 24-   | A    | B4      |
| R 8009 | CHIP RES.      | 4.7k    | 1/16W | 5%   | RMC1/16 472JATP    | J24185472 |       | 24-   | A    | A4      |
| R 8010 | CHIP RES.      | 2.2k    | 1/16W | 5%   | RMC1/16 222JATP    | J24185222 |       | 24-   | A    | B4      |
| R 8011 | CHIP RES.      | 10      | 1/8W  | 5%   | RMC1/8T 100J       | J24215100 |       | 24-   | A    | A4      |
| R 8012 | CHIP RES.      | 4.7     | 1/4W  | 5%   | RMC1/4 4R7JATP     | J24245479 |       | 24-   | A    | B3      |
| R 8013 | CHIP CAP.      | 15pF    | 50V   | CH   | GRM1882C1H150JA01D | K22174215 |       | 24-28 | A    | A3      |
| R 8014 | CHIP RES.      | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 24-   | A    | A3      |
| R 8015 | CHIP RES.      | 4.7k    | 1/16W | 5%   | RMC1/16 472JATP    | J24185472 |       | 24-   | A    | D3      |
| R 8016 | CHIP RES.      | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 24-   | A    | B2      |
| R 8017 | CHIP RES.      | 18      | 1/16W | 5%   | RMC1/16 180JATP    | J24185180 |       | 24-   | A    | B2      |
| R 8018 | CHIP RES.      | 3.3k    | 1/16W | 5%   | RMC1/16 332JATP    | J24185332 |       | 24-   | A    | B2      |
| R 8019 | CHIP RES.      | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 24-   | A    | B2      |
| R 8020 | CHIP RES.      | 1k      | 1/16W | 5%   | RMC1/16 102JATP    | J24185102 |       | 24-   | A    | D3      |
| R 8021 | CHIP RES.      | 0       | 1/16W | 5%   | RMC1/16 000JATP    | J24185000 |       | 24-   | A    | C5      |
| R 8022 | CHIP RES.      | 100     | 1/10W | 5%   | RMC1/10T 101J      | J24205101 |       | 24-   | A    | E2      |
| R 8023 | CHIP RES.      | 1k      | 1/16W | 5%   | RMC1/16 102JATP    | J24185102 |       | 24-   | A    | D3      |
| R 8024 | CHIP RES.      | 1k      | 1/16W | 5%   | RMC1/16 102JATP    | J24185102 |       | 24-   | A    | D3      |
| R 8025 | CHIP RES.      | 0       | 1/16W | 5%   | RMC1/16 000JATP    | J24185000 |       | 24-   | A    | B4      |
| R 8026 | CHIP RES.      | 150     | 1/10W | 5%   | RMC1/10T 151J      | J24205151 |       | 24-   | A    | D3      |
| R 8027 | CHIP RES.      | 22k     | 1/16W | 5%   | RMC1/16 223JATP    | J24185223 |       | 24-   | A    | D3      |
| R 8028 | CHIP RES.      | 10k     | 1/16W | 5%   | RMC1/16 103JATP    | J24185103 |       | 24-   | A    | E3      |
| R 8029 | CHIP RES.      | 1.2k    | 1/16W | 5%   | RMC1/16 122JATP    | J24185122 |       | 24-   | A    | E3      |
| R 8030 | CHIP RES.      | 1k      | 1/16W | 5%   | RMC1/16 102JATP    | J24185102 |       | 24-   | A    | D2      |
| R 8031 | CHIP RES.      | 3.9k    | 1/16W | 5%   | RMC1/16 392JATP    | J24185392 |       | 24-   | A    | D2      |
| R 8032 | CHIP RES.      | 22k     | 1/16W | 5%   | RMC1/16 223JATP    | J24185223 |       | 24-   | A    | D3      |



# PA-2 Unit (Lot. 24~)

## Parts List

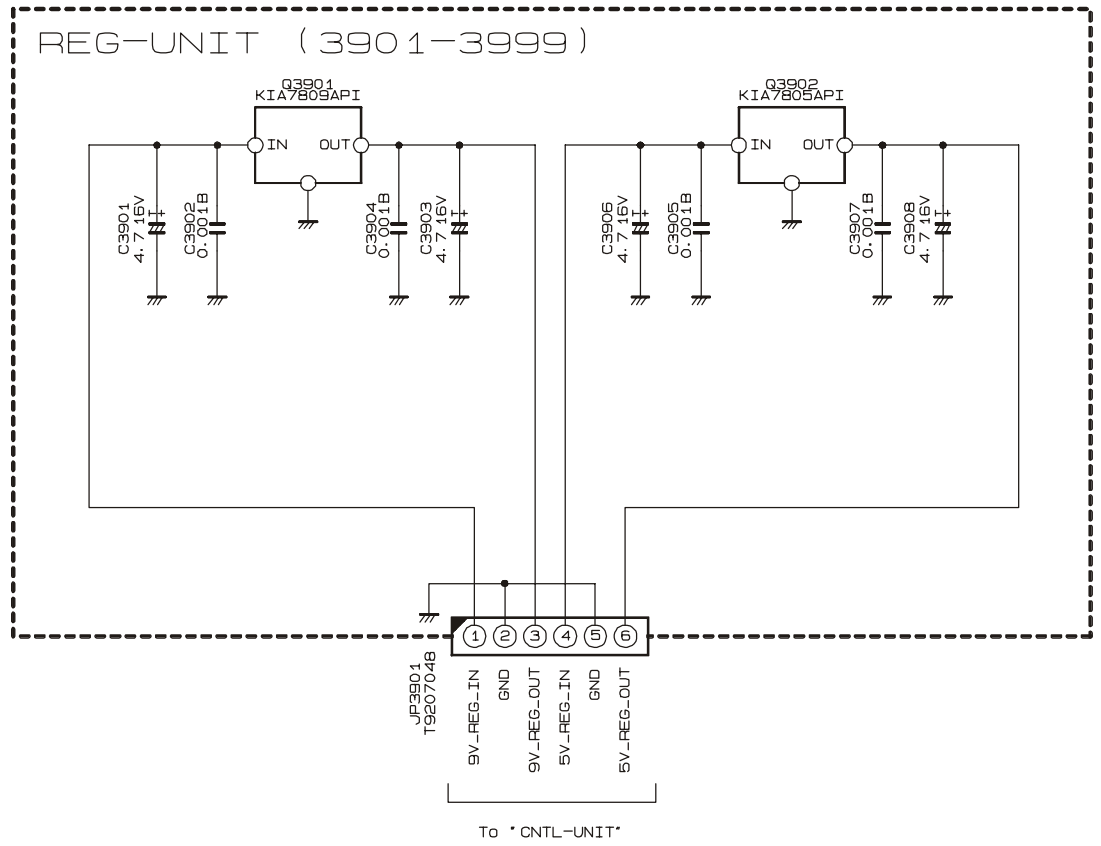
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|--------|--------------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 8033 | CHIP RES.          | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 24- | A    | E2      |
| R 8034 | CHIP RES.          | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 24- | A    | D3      |
| R 8035 | CHIP RES.          | 220k  | 1/16W | 5%   | RMC1/16 224JATP | J24185224 |       | 24- | A    | D3      |
| R 8036 | CHIP RES.          | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 24- | A    | F4      |
| R 8037 | CHIP RES.          | 150k  | 1/16W | 5%   | RMC1/16 154JATP | J24185154 |       | 24- | A    | F4      |
| R 8038 | CHIP RES.          | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 24- | A    | F4      |
| R 8039 | CHIP RES.          | 22    | 1/10W | 5%   | RMC1/10T 220J   | J24205220 |       | 24- | A    | F4      |
| R 8040 | CHIP RES.          | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 24- | A    | G1      |
| R 8041 | CEMENT RES.        | 5.6   | 5W    | 10%  | ERF-5AK5R6      | J30376569 |       | 24- | A    | E5      |
| R 8043 | CHIP RES.          | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 24- | A    | D3      |
| R 8044 | CHIP RES.          | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 24- | A    | A4      |
| R 8045 | CHIP RES.          | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 24- | A    | A3      |
| R 8046 | CHIP RES.          | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 24- | A    | D3      |
| R 8047 | CHIP RES.          | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 24- | A    | D3      |
| R 8048 | CHIP RES.          | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 24- | A    | D3      |
| R 8049 | CHIP RES.          | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 24- | A    | D3      |
| RL8001 | RELAY              |       | DC12V |      | ACP131 DC12V    | M1190152  |       | 24- | A    | F5      |
| S 8001 | SLIDE SWITCH       |       |       |      | SSSS912N-2A-OR  | N6090094  |       | 24- | A    | F4      |
| TH8001 | THERMISTOR         |       |       |      | 157-203-55009TP | G9090045  |       | 24- | A    | C4      |
|        | SHIELD PLATE       |       |       |      | PA              | R0124501  |       | 24- |      |         |
|        | BINDING HEAD SCREW |       |       |      | M3X10NI         | U20310002 |       | 24- |      |         |
|        | BINDING HEAD SCREW |       |       |      | M3X10NI         | U20310002 |       | 24- |      |         |
|        | TERMINAL           |       |       |      | B4 AG M3        | Q6000114  |       | 24- |      |         |
|        | TERMINAL           |       |       |      | B4 AG M3        | Q6000114  |       | 24- |      |         |
|        | GASKET             |       |       |      | L=50            | RA0650800 |       | 24- |      |         |

*PA-2 Unit (Lot. 24~)*

*Note*

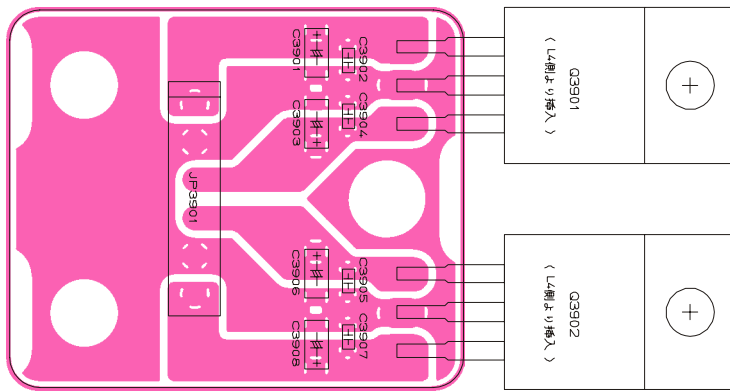
# REG Unit

## Circuit Diagram

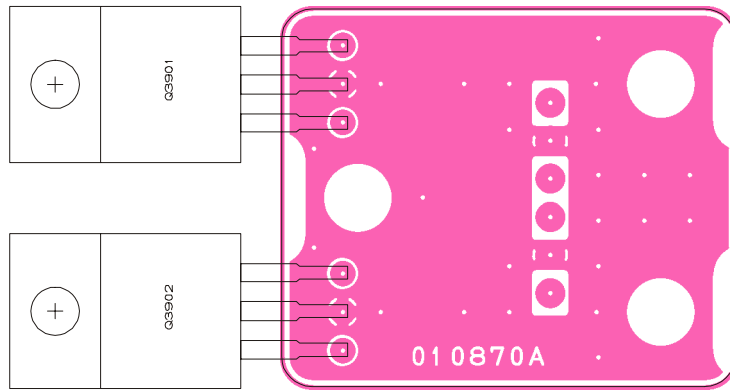
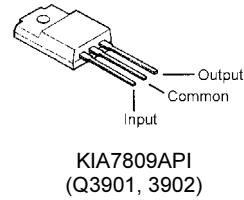


# REG Unit

## Parts Layout



Side A



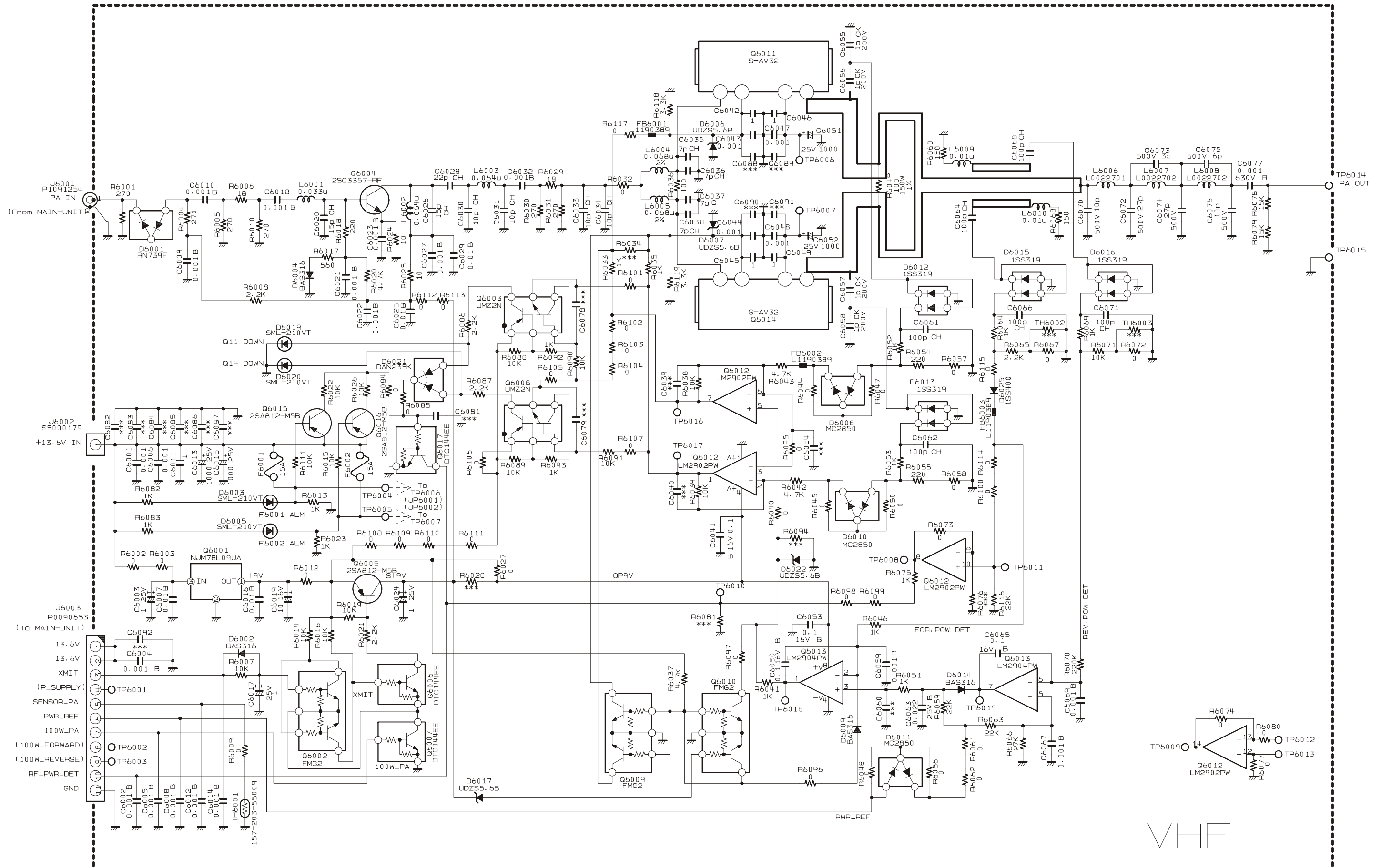
Side B

## Parts List

| REF                   | DESCRIPTION  | VALUE   | V/W | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|-----------------------|--------------|---------|-----|------|-----------------|-----------|-------|-----|------|---------|
| PCB with Components   |              |         |     |      |                 | CB2566001 |       |     |      |         |
| Printed Circuit Board |              |         |     |      |                 | FR010870A |       | 1-  |      |         |
| C 3901                | CHIP TA.CAP. | 4.7uF   | 16V |      | TEMSVA1C475M-8R | K78120031 |       | 1-  | A    |         |
| C 3902                | CHIP CAP.    | 0.001uF | 50V | B    | GRM39B102K50PT  | K22174821 |       | 1-  | A    |         |
| C 3903                | CHIP TA.CAP. | 4.7uF   | 16V |      | TEMSVA1C475M-8R | K78120031 |       | 1-  | A    |         |
| C 3904                | CHIP CAP.    | 0.001uF | 50V | B    | GRM39B102K50PT  | K22174821 |       | 1-  | A    |         |
| C 3905                | CHIP CAP.    | 0.001uF | 50V | B    | GRM39B102K50PT  | K22174821 |       | 1-  | A    |         |
| C 3906                | CHIP TA.CAP. | 4.7uF   | 16V |      | TEMSVA1C475M-8R | K78120031 |       | 1-  | A    |         |
| C 3907                | CHIP CAP.    | 0.001uF | 50V | B    | GRM39B102K50PT  | K22174821 |       | 1-  | A    |         |
| C 3908                | CHIP TA.CAP. | 4.7uF   | 16V |      | TEMSVA1C475M-8R | K78120031 |       | 1-  | A    |         |
| JP3901                | WIRE ASSY    |         |     |      | AC044N/U        | T9207048  |       | 1-  | A    |         |
| Q 3901                | IC           |         |     |      | KIA7809API      | G1093165  |       | 1-  | B    |         |
| Q 3902                | IC           |         |     |      | KIA7805API      | G1093163  |       | 1-  | B    |         |

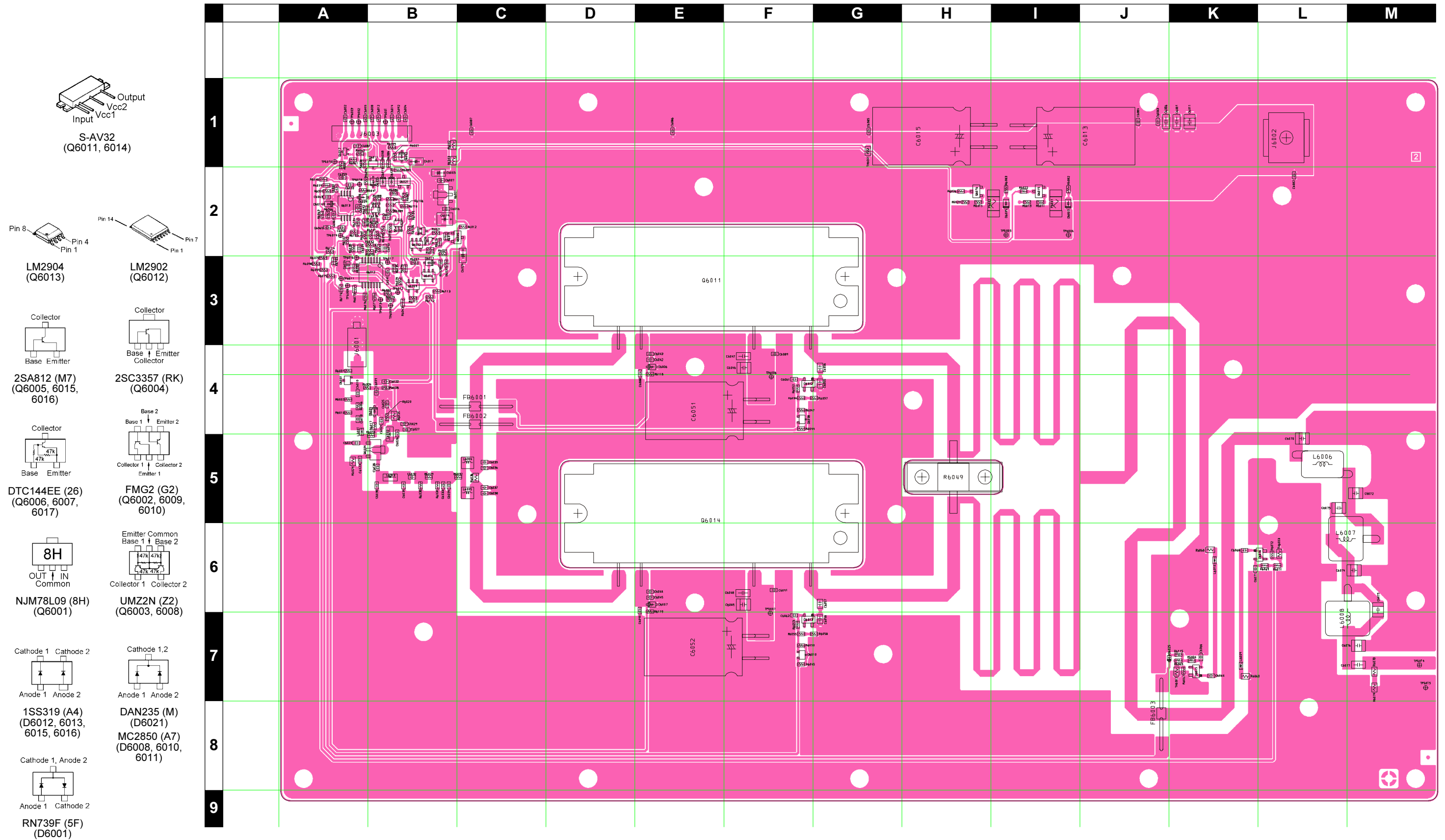
# 100W PA Unit (Option: Version C)

## Circuit Diagram



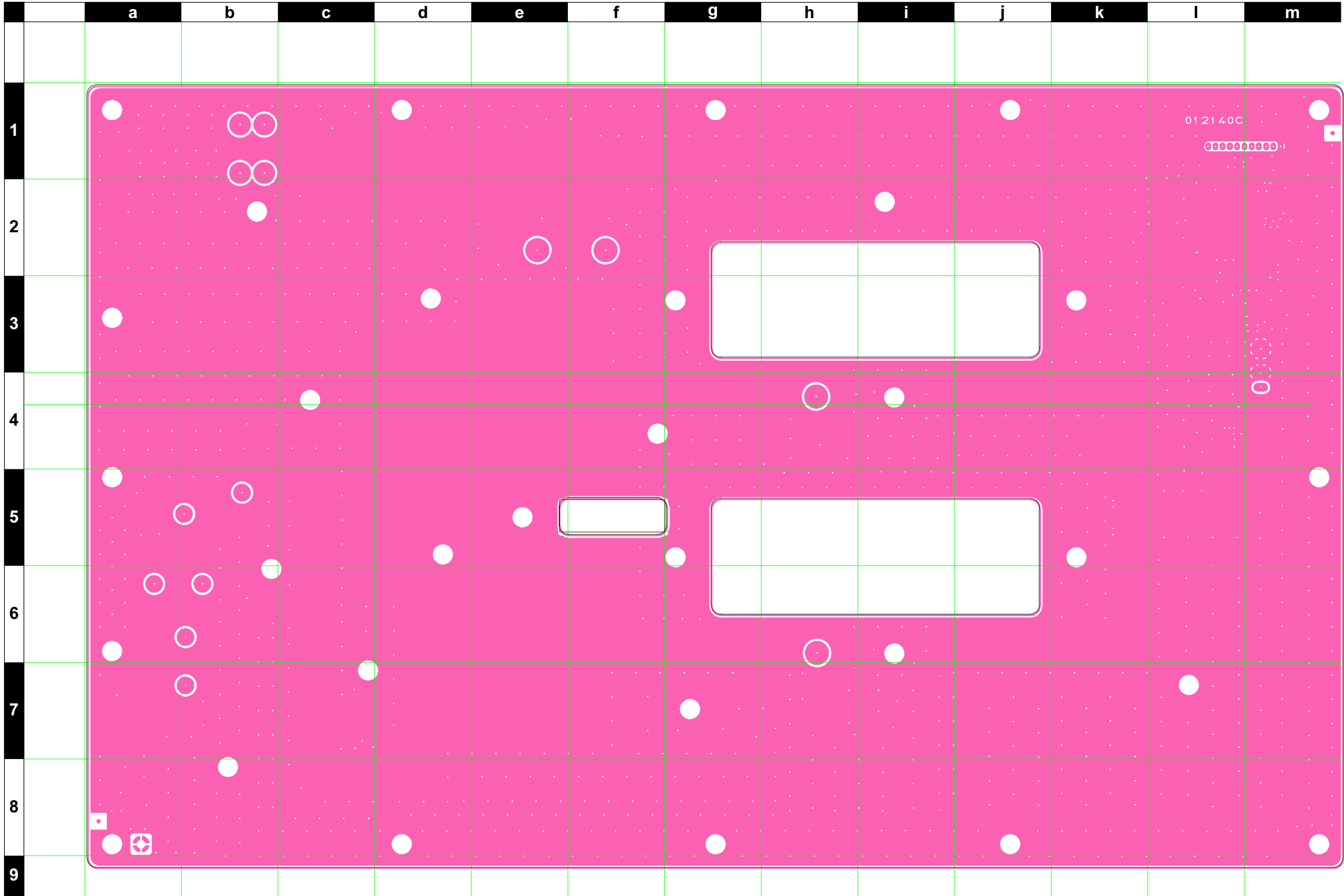
## ***100W PA Unit (Option: Version C)***

*Note*



100W PA Unit (Option: Version C)

Parts Layout (Side B)





# 100W PA Unit (Option: Version C)

## Parts List

| REF                   | DESCRIPTION     | VALUE   | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.  | LOT | SIDE | LAY | ADR |
|-----------------------|-----------------|---------|------|------|--------------------|-----------|--------|-----|------|-----|-----|
| PCB with Components   |                 |         |      |      |                    | CS1863001 |        |     |      |     |     |
| Printed Circuit Board |                 |         |      |      |                    | FR012140C | VER. C | 1-  |      |     |     |
| C 6001                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |        | 1-  | A    |     | K1  |
| C 6002                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | A1  |
| C 6003                | CHIP TA.CAP.    | 1uF     | 25V  |      | TEMSVA1E105M-8R    | K78140013 |        | 1-  | A    |     | B2  |
| C 6004                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B1  |
| C 6005                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | A1  |
| C 6006                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |        | 1-  | A    |     | J1  |
| C 6007                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-  | A    |     | B2  |
| C 6008                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B1  |
| C 6009                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B5  |
| C 6010                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | A5  |
| C 6011                | CHIP CAP.       | 1uF     | 50V  | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    |     | K1  |
| C 6012                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B1  |
| C 6013                | AL.ELECTRO.CAP. | 1000uF  | 25V  |      | RJ3-25V102MI5#     | K40149041 |        | 1-  | A    |     | I2  |
| C 6014                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B1  |
| C 6015                | AL.ELECTRO.CAP. | 1000uF  | 25V  |      | RJ3-25V102MI5#     | K40149041 |        | 1-  | A    |     | H2  |
| C 6016                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-  | A    |     | B2  |
| C 6017                | CHIP TA.CAP.    | 1uF     | 25V  |      | TEMSVA1E105M-8R    | K78140013 |        | 1-  | A    |     | B2  |
| C 6018                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | A5  |
| C 6019                | CHIP TA.CAP.    | 10uF    | 16V  |      | TEMSVB21C106M-8R   | K78120025 |        | 1-  | A    |     | B3  |
| C 6020                | CHIP CAP.       | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-  | A    |     | A5  |
| C 6021                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B5  |
| C 6022                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B4  |
| C 6023                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | A5  |
| C 6024                | CHIP TA.CAP.    | 1uF     | 25V  |      | TEMSVA1E105M-8R    | K78140013 |        | 1-  | A    |     | C3  |
| C 6025                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-  | A    |     | B5  |
| C 6026                | CHIP CAP.       | 15pF    | 50V  | CH   | GRM1882C1H150JA01D | K22174215 |        | 1-  | A    |     | B5  |
| C 6027                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B5  |
| C 6028                | CHIP CAP.       | 22pF    | 50V  | CH   | GRM1882C1H220JA01D | K22174219 |        | 1-  | A    |     | B5  |
| C 6029                | CHIP CAP.       | 0.01uF  | 50V  | B    | GRM188B11H103KA01D | K22174823 |        | 1-  | A    |     | B5  |
| C 6030                | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1882C1H100RZ01D | K22174248 |        | 1-  | A    |     | B6  |
| C 6031                | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1882C1H100RZ01D | K22174248 |        | 1-  | A    |     | B6  |
| C 6032                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | B5  |
| C 6033                | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1882C1H100RZ01D | K22174248 |        | 1-  | A    |     | B6  |
| C 6034                | CHIP CAP.       | 18pF    | 50V  | CH   | GRM1882C1H180JA01D | K22174217 |        | 1-  | A    |     | B6  |
| C 6035                | CHIP CAP.       | 7pF     | 50V  | CH   | GRM1882C1H7R0CZ01D | K22174245 |        | 1-  | A    |     | C5  |
| C 6036                | CHIP CAP.       | 7pF     | 50V  | CH   | GRM1882C1H7R0CZ01D | K22174245 |        | 1-  | A    |     | C5  |
| C 6037                | CHIP CAP.       | 7pF     | 50V  | CH   | GRM1882C1H7R0CZ01D | K22174245 |        | 1-  | A    |     | C6  |
| C 6038                | CHIP CAP.       | 7pF     | 50V  | CH   | GRM1882C1H7R0CZ01D | K22174245 |        | 1-  | A    |     | C6  |
| C 6041                | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 1-  | A    |     | B3  |
| C 6042                | CHIP CAP.       | 1uF     | 6.3V | B    | GRM188B10J105KA01D | K22084801 |        | 1-  | A    |     | E4  |
| C 6043                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    |     | E4  |
| C 6044                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    |     | E7  |
| C 6045                | CHIP CAP.       | 1uF     | 6.3V | B    | GRM188B10J105KA01D | K22084801 |        | 1-  | A    |     | E7  |
| C 6046                | CHIP CAP.       | 1uF     | 50V  | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    |     | F4  |
| C 6047                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |        | 1-  | A    |     | F4  |
| C 6048                | CHIP CAP.       | 0.001uF | 630V | R    | GRM31BR32J102KY01L | K22281801 |        | 1-  | A    |     | F7  |
| C 6049                | CHIP CAP.       | 1uF     | 50V  | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    |     | F7  |
| C 6050                | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 1-  | A    |     | A2  |
| C 6051                | AL.ELECTRO.CAP. | 1000uF  | 25V  |      | RJ3-25V102MI5#     | K40149041 |        | 1-  | A    |     | F5  |
| C 6052                | AL.ELECTRO.CAP. | 1000uF  | 25V  |      | RJ3-25V102MI5#     | K40149041 |        | 1-  | A    |     | F7  |
| C 6053                | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 1-  | A    |     | A2  |
| C 6055                | CHIP CAP.       | 1pF     | 200V | CK   | GRM2194C2D1R0CY21D | K22230208 |        | 1-  | A    |     | G4  |
| C 6056                | CHIP CAP.       | 1pF     | 200V | CK   | GRM2194C2D1R0CY21D | K22230208 |        | 1-  | A    |     | G4  |
| C 6057                | CHIP CAP.       | 1pF     | 200V | CK   | GRM2194C2D1R0CY21D | K22230208 |        | 1-  | A    |     | G7  |
| C 6058                | CHIP CAP.       | 1pF     | 200V | CK   | GRM2194C2D1R0CY21D | K22230208 |        | 1-  | A    |     | G7  |
| C 6059                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | A2  |
| C 6061                | CHIP CAP.       | 100pF   | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    |     | F4  |
| C 6062                | CHIP CAP.       | 100pF   | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    |     | F7  |
| C 6063                | CHIP CAP.       | 0.022uF | 25V  | B    | GRM39B223K25PT     | K22144807 |        | 1-  | A    |     | A2  |
| C 6064                | CHIP CAP.       | 100pF   | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    |     | K8  |
| C 6065                | CHIP CAP.       | 0.1uF   | 16V  | B    | GRM188B11C104KA01D | K22124805 |        | 1-  | A    |     | A3  |
| C 6066                | CHIP CAP.       | 100pF   | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    |     | K7  |
| C 6067                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | A3  |
| C 6068                | CHIP CAP.       | 100pF   | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    |     | K6  |
| C 6069                | CHIP CAP.       | 0.001uF | 50V  | B    | GRM188B11H102KA01D | K22174821 |        | 1-  | A    |     | A3  |
| C 6070                | FILM CAP.       | 10pF    | 500V |      | UC232H0100D-T      | K33279019 |        | 1-  | A    |     | L5  |
| C 6071                | CHIP CAP.       | 100pF   | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    |     | K6  |
| C 6072                | FILM CAP.       | 27pF    | 500V |      | UC232H0270J-T      | K33279023 |        | 1-  | A    |     | M6  |
| C 6073                | FILM CAP.       | 3pF     | 500V |      | UC232H0030D-T      | K33279027 |        | 1-  | A    |     | L6  |
| C 6074                | FILM CAP.       | 27pF    | 500V |      | UC232H0270J-T      | K33279023 |        | 1-  | A    |     | M7  |
| C 6075                | FILM CAP.       | 6pF     | 500V |      | UC232H0060D-T      | K33279045 |        | 1-  | A    |     | M7  |

# 100W PA Unit (Option: Version C)

## Parts List

| REF    | DESCRIPTION | VALUE   | V/W   | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|---------|-------|------|--------------------|-----------|-------|-----|------|---------|
| C 6076 | FILM CAP.   | 10pF    | 500V  |      | UC232H0100D-T      | K33279019 |       | 1-  | A    | M7      |
| C 6077 | CHIP CAP.   | 0.001uF | 630V  | R    | GRM31BR32J102KY01L | K22281801 |       | 1-  | A    | M8      |
| D 6001 | DIODE       |         |       |      | RN739F T106        | G2070626  |       | 1-  | A    | A4      |
| D 6002 | DIODE       |         |       |      | BAS316             | G2070716  |       | 1-  | A    | B2      |
| D 6003 | LED         |         |       |      | SML-210VTT86       | G2070768  |       | 1-  | A    | I2      |
| D 6004 | DIODE       |         |       |      | BAS316             | G2070716  |       | 1-  | A    | B5      |
| D 6005 | LED         |         |       |      | SML-210VTT86       | G2070768  |       | 1-  | A    | I2      |
| D 6006 | DIODE       |         |       |      | UDZS TE-17 5.6B    | G2070910  |       | 1-  | A    | E4      |
| D 6007 | DIODE       |         |       |      | UDZS TE-17 5.6B    | G2070910  |       | 1-  | A    | E7      |
| D 6008 | DIODE       |         |       |      | MC2850-T11-1       | G2070704  |       | 1-  | A    | F5      |
| D 6009 | DIODE       |         |       |      | BAS316             | G2070716  |       | 1-  | A    | A2      |
| D 6010 | DIODE       |         |       |      | MC2850-T11-1       | G2070704  |       | 1-  | A    | F7      |
| D 6011 | DIODE       |         |       |      | MC2850-T11-1       | G2070704  |       | 1-  | A    | B2      |
| D 6012 | DIODE       |         |       |      | 1SS319 TE85R       | G2070080  |       | 1-  | A    | F4      |
| D 6013 | DIODE       |         |       |      | 1SS319 TE85R       | G2070080  |       | 1-  | A    | F7      |
| D 6014 | DIODE       |         |       |      | BAS316             | G2070716  |       | 1-  | A    | A2      |
| D 6015 | DIODE       |         |       |      | 1SS319 TE85R       | G2070080  |       | 1-  | A    | K8      |
| D 6016 | DIODE       |         |       |      | 1SS319 TE85R       | G2070080  |       | 1-  | A    | L6      |
| D 6017 | DIODE       |         |       |      | UDZS TE-17 5.6B    | G2070910  |       | 1-  | A    | B3      |
| D 6019 | LED         |         |       |      | SML-210VTT86       | G2070768  |       | 1-  | A    | B2      |
| D 6020 | LED         |         |       |      | SML-210VTT86       | G2070768  |       | 1-  | A    | B2      |
| D 6021 | DIODE       |         |       |      | DAN235K T97        | G2070082  |       | 1-  | A    | B2      |
| D 6022 | DIODE       |         |       |      | UDZS TE-17 5.6B    | G2070910  |       | 1-  | A    | B2      |
| D 6025 | DIODE       |         |       |      | 1SS400 TE61        | G2070634  |       | 1-  | A    | J7      |
| F 6001 | CHIP FUSE   | 15A     |       |      | 451 015.MR 15A     | Q0000105  |       | 1-  | A    | I2      |
| F 6002 | CHIP FUSE   | 15A     |       |      | 451 015.MR 15A     | Q0000105  |       | 1-  | A    | I2      |
| FB6001 | M.RFC       |         |       |      | FBA03VA450AB-00    | L1190389  |       | 1-  |      |         |
| FB6002 | M.RFC       |         |       |      | FBA03VA450AB-00    | L1190389  |       | 1-  |      |         |
| FB6003 | M.RFC       |         |       |      | FBA03VA450AB-00    | L1190389  |       | 1-  |      |         |
| J 6001 | CONNECTOR   |         |       |      | TMP-S01X-C1        | P1091254  |       | 1-  | A    | A4      |
| J 6002 | TERMINAL    |         |       |      | Y106               | S5000179  |       | 1-  | A    | L2      |
| J 6003 | CONNECTOR   |         |       |      | IL-Y-11P-S15T2-E   | P0090653  |       | 1-  | A    | B2      |
| JP6001 | WIRE ASSY   |         |       |      | RED 125 <7>/<7>    | T9318109  |       | 1-  |      |         |
| JP6002 | WIRE ASSY   |         |       |      | RED 145 <7>/<7>    | T9318176  |       | 1-  |      |         |
| L 6001 | M.RFC       | 0.033uH |       |      | HK1608 33NJ-T      | L1690522  |       | 1-  | A    | A5      |
| L 6002 | CHIP COIL   | 0.064uH |       |      | LQW31HN64NJ03L     | L1690258  |       | 1-  | A    | B5      |
| L 6003 | CHIP COIL   | 0.064uH |       |      | LQW31HN64NJ03L     | L1690258  |       | 1-  | A    | B5      |
| L 6004 | CHIP COIL   | 0.068uH |       | 2%   | C2520C-68NG        | L1691292  |       | 1-  | A    | C5      |
| L 6005 | CHIP COIL   | 0.068uH |       | 2%   | C2520C-68NG        | L1691292  |       | 1-  | A    | C6      |
| L 6006 | COIL C1     |         |       |      | 3.0T5.5D1.6PEW R   | L0022701  |       | 1-  | A    | L5      |
| L 6007 | COIL B3     |         |       |      | 3.0T6.0D1.6PEW R   | L0022702  |       | 1-  | A    | M6      |
| L 6008 | COIL B3     |         |       |      | 3.0T6.0D1.6PEW R   | L0022702  |       | 1-  | A    | L7      |
| L 6009 | M.RFC       | 0.01uH  |       |      | HK1608 10NJ-T      | L1690516  |       | 1-  | A    | K8      |
| L 6010 | M.RFC       | 0.01uH  |       |      | HK1608 10NJ-T      | L1690516  |       | 1-  | A    | K6      |
| Q 6001 | IC          |         |       |      | NJM78L09UA-TE2     | G1091305  |       | 1-  | A    | B2      |
| Q 6002 | TRANSISTOR  |         |       |      | FMG2 T148          | G3070015  |       | 1-  | A    | B3      |
| Q 6003 | TRANSISTOR  |         |       |      | UMZ2N TR           | G3070117  |       | 1-  | A    | B2      |
| Q 6004 | TRANSISTOR  |         |       |      | 2SC3357-T2 RF      | G3333577F |       | 1-  | A    | B5      |
| Q 6005 | TRANSISTOR  |         |       |      | 2SA812-T2B M5B     | G3108127E |       | 1-  | A    | B3      |
| Q 6006 | TRANSISTOR  |         |       |      | DTC144EE TL        | G3070075  |       | 1-  | A    | B3      |
| Q 6007 | TRANSISTOR  |         |       |      | DTC144EE TL        | G3070075  |       | 1-  | A    | B3      |
| Q 6008 | TRANSISTOR  |         |       |      | UMZ2N TR           | G3070117  |       | 1-  | A    | B3      |
| Q 6009 | TRANSISTOR  |         |       |      | FMG2 T148          | G3070015  |       | 1-  | A    | B3      |
| Q 6010 | TRANSISTOR  |         |       |      | FMG2 T148          | G3070015  |       | 1-  | A    | B3      |
| Q 6011 | IC          |         |       |      | S-AV32(VX)         | G1093916  |       | 1-  | A    | D3      |
| Q 6012 | IC          |         |       |      | LM2902PWR          | G1094009  |       | 1-  | A    | B3      |
| Q 6013 | IC          |         |       |      | LM2904PWR          | G1094010  |       | 1-  | A    | A2      |
| Q 6014 | IC          |         |       |      | S-AV32(VX)         | G1093916  |       | 1-  | A    | D6      |
| Q 6015 | TRANSISTOR  |         |       |      | 2SA812-T2B M5B     | G3108127E |       | 1-  | A    | I2      |
| Q 6016 | TRANSISTOR  |         |       |      | 2SA812-T2B M5B     | G3108127E |       | 1-  | A    | H2      |
| Q 6017 | TRANSISTOR  |         |       |      | DTC144EE TL        | G3070075  |       | 1-  | A    | A2      |
| R 6001 | CHIP RES.   | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 1-  | A    | A4      |
| R 6002 | CHIP RES.   | 0       | 1/10W | 5%   | RMC1/10T 000J      | J24205000 |       | 1-  | A    | B2      |
| R 6003 | CHIP RES.   | 0       | 1/10W | 5%   | RMC1/10T 000J      | J24205000 |       | 1-  | A    | B2      |
| R 6004 | CHIP RES.   | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 1-  | A    | A4      |
| R 6005 | CHIP RES.   | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 1-  | A    | A5      |
| R 6006 | CHIP RES.   | 18      | 1/16W | 5%   | RMC1/16 180JATP    | J24185180 |       | 1-  | A    | A5      |
| R 6007 | CHIP RES.   | 10k     | 1/16W | 5%   | RMC1/16 103JATP    | J24185103 |       | 1-  | A    | B2      |
| R 6008 | CHIP RES.   | 2.2k    | 1/16W | 5%   | RMC1/16 222JATP    | J24185222 |       | 1-  | A    | B4      |
| R 6009 | CHIP RES.   | 0       | 1/16W | 5%   | RMC1/16 000JATP    | J24185000 |       | 1-  | A    | B2      |
| R 6010 | CHIP RES.   | 270     | 1/16W | 5%   | RMC1/16 271JATP    | J24185271 |       | 1-  | A    | A5      |
| R 6011 | CHIP RES.   | 10k     | 1/16W | 5%   | RMC1/16 103JATP    | J24185103 |       | 1-  | A    | I2      |
| R 6012 | CHIP RES.   | 0       | 1/16W | 5%   | RMC1/16 000JATP    | J24185000 |       | 1-  | A    | C3      |

# 100W PA Unit (Option: Version C)

## Parts List

| REF    | DESCRIPTION     | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-----------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 6013 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | I2      |
| R 6014 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B3      |
| R 6015 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | H2      |
| R 6016 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B3      |
| R 6017 | CHIP RES.       | 560   | 1/16W | 5%   | RMC1/16 561JATP | J24185561 |       | 1-  | A    | B5      |
| R 6018 | CHIP RES.       | 220   | 1/16W | 5%   | RMC1/16 221JATP | J24185221 |       | 1-  | A    | B5      |
| R 6019 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B3      |
| R 6020 | CHIP RES.       | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B5      |
| R 6021 | CHIP RES.       | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 1-  | A    | B3      |
| R 6022 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | I2      |
| R 6023 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | H2      |
| R 6024 | CHIP RES.       | 10    | 1/10W | 5%   | RMC1/10T 100J   | J24205100 |       | 1-  | A    | A5      |
| R 6025 | CHIP RES.       | 10    | 1/10W | 5%   | RMC1/10T 100J   | J24205100 |       | 1-  | A    | B5      |
| R 6026 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | H2      |
| R 6027 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6029 | CHIP RES.       | 18    | 1/16W | 5%   | RMC1/16 180JATP | J24185180 |       | 1-  | A    | B5      |
| R 6030 | CHIP RES.       | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 |       | 1-  | A    | B6      |
| R 6031 | CHIP RES.       | 270   | 1/16W | 5%   | RMC1/16 271JATP | J24185271 |       | 1-  | A    | B6      |
| R 6032 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B5      |
| R 6033 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | A3      |
| R 6035 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | B3      |
| R 6036 | CHIP RES.       | 100   | 1/10W | 5%   | RMC1/10T 101J   | J24205101 |       | 1-  | A    | C5      |
| R 6037 | CHIP RES.       | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B3      |
| R 6038 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | A3      |
| R 6039 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B3      |
| R 6040 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6041 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | A2      |
| R 6042 | CHIP RES.       | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B3      |
| R 6043 | CHIP RES.       | 4.7k  | 1/16W | 5%   | RMC1/16 472JATP | J24185472 |       | 1-  | A    | B4      |
| R 6044 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | F5      |
| R 6045 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | F8      |
| R 6046 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | A2      |
| R 6047 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | F5      |
| R 6048 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B2      |
| R 6049 | METAL FILM RES. | 100   | 150W  | 1%   | RFRF150C100F    | J22529001 |       | 1-  | A    | H5      |
| R 6050 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | F7      |
| R 6051 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | A2      |
| R 6052 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | F4      |
| R 6053 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | F7      |
| R 6054 | CHIP RES.       | 220   | 1/16W | 5%   | RMC1/16 221JATP | J24185221 |       | 1-  | A    | F5      |
| R 6055 | CHIP RES.       | 220   | 1/16W | 5%   | RMC1/16 221JATP | J24185221 |       | 1-  | A    | F7      |
| R 6056 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A2      |
| R 6057 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | F5      |
| R 6058 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | F7      |
| R 6059 | CHIP RES.       | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | A    | A2      |
| R 6060 | CHIP RES.       | 150   | 1/10W | 5%   | RMC1/10T 151J   | J24205151 |       | 1-  | A    | K8      |
| R 6061 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A2      |
| R 6062 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A2      |
| R 6063 | CHIP RES.       | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | A    | A3      |
| R 6064 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | K8      |
| R 6065 | CHIP RES.       | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 1-  | A    | K8      |
| R 6066 | CHIP RES.       | 27k   | 1/16W | 5%   | RMC1/16 273JATP | J24185273 |       | 1-  | A    | A3      |
| R 6067 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | K8      |
| R 6068 | CHIP RES.       | 150   | 1/10W | 5%   | RMC1/10T 151J   | J24205151 |       | 1-  | A    | K6      |
| R 6069 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | L6      |
| R 6070 | CHIP RES.       | 220k  | 1/16W | 5%   | RMC1/16 224JATP | J24185224 |       | 1-  | A    | A3      |
| R 6071 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | L6      |
| R 6072 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | L6      |
| R 6073 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6074 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6075 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | A3      |
| R 6077 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6078 | CHIP RES.       | 15k   | 1/10W | 5%   | RMC1/10T 153J   | J24205153 |       | 1-  | A    | M8      |
| R 6079 | CHIP RES.       | 15k   | 1/10W | 5%   | RMC1/10T 153J   | J24205153 |       | 1-  | A    | M8      |
| R 6080 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6082 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | I2      |
| R 6083 | CHIP RES.       | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | I2      |
| R 6084 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B2      |
| R 6085 | CHIP RES.       | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B2      |
| R 6086 | CHIP RES.       | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 1-  | A    | B2      |
| R 6087 | CHIP RES.       | 2.2k  | 1/16W | 5%   | RMC1/16 222JATP | J24185222 |       | 1-  | A    | B2      |
| R 6088 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B2      |
| R 6089 | CHIP RES.       | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B2      |

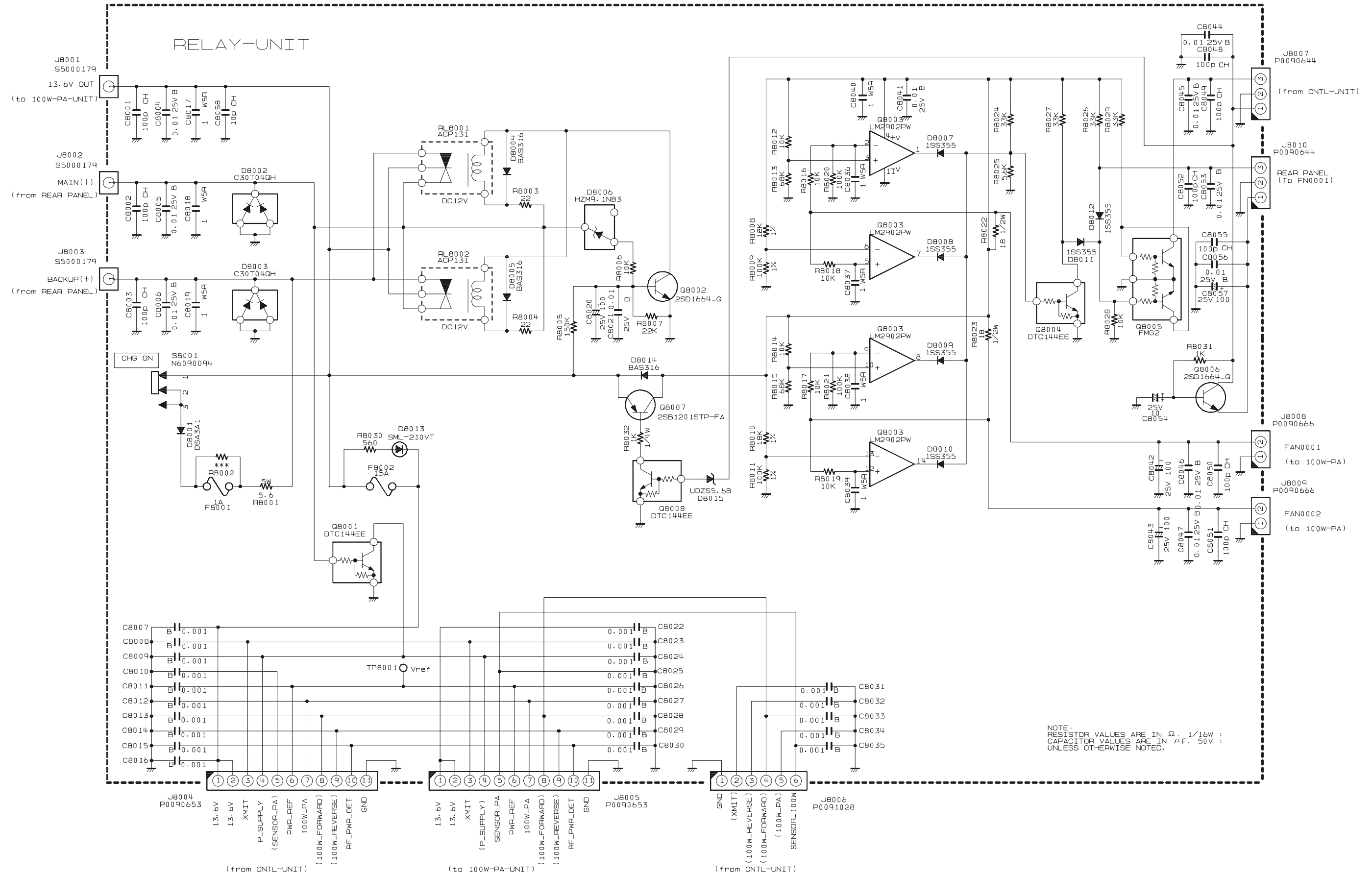
# 100W PA Unit (Option: Version C)

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 6090 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | A3      |
| R 6091 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16 103JATP | J24185103 |       | 1-  | A    | B3      |
| R 6092 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | A2      |
| R 6093 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16 102JATP | J24185102 |       | 1-  | A    | B3      |
| R 6095 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6096 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6097 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6098 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6099 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6100 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6101 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6102 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6103 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6104 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6105 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6106 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B2      |
| R 6107 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6108 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6109 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6110 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B2      |
| R 6111 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B2      |
| R 6112 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6113 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6114 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | A3      |
| R 6115 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | K7      |
| R 6116 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16 223JATP | J24185223 |       | 1-  | A    | A3      |
| R 6117 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16 000JATP | J24185000 |       | 1-  | A    | B3      |
| R 6118 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP | J24185332 |       | 1-  | A    | E4      |
| R 6119 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16 332JATP | J24185332 |       | 1-  | A    | E7      |
| TH6001 | THERMISTOR  |       |       |      | 157-203-55009TP | G9090045  |       | 1-  | A    | G2      |

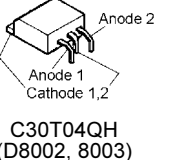
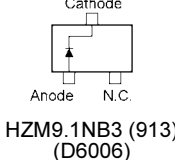
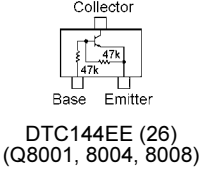
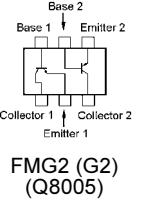
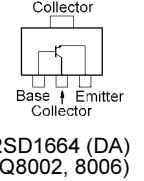
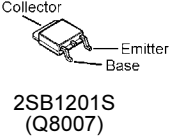
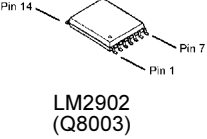
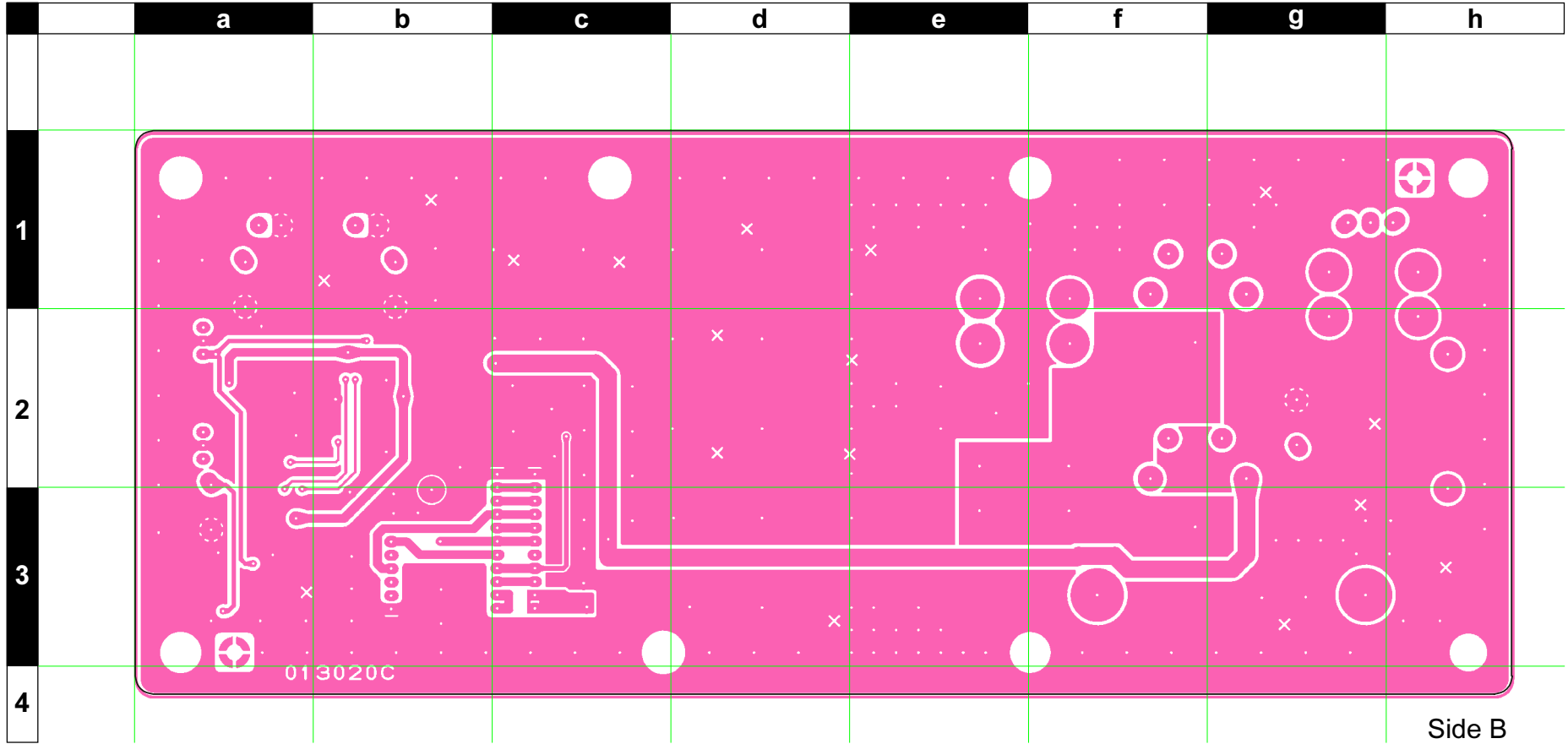
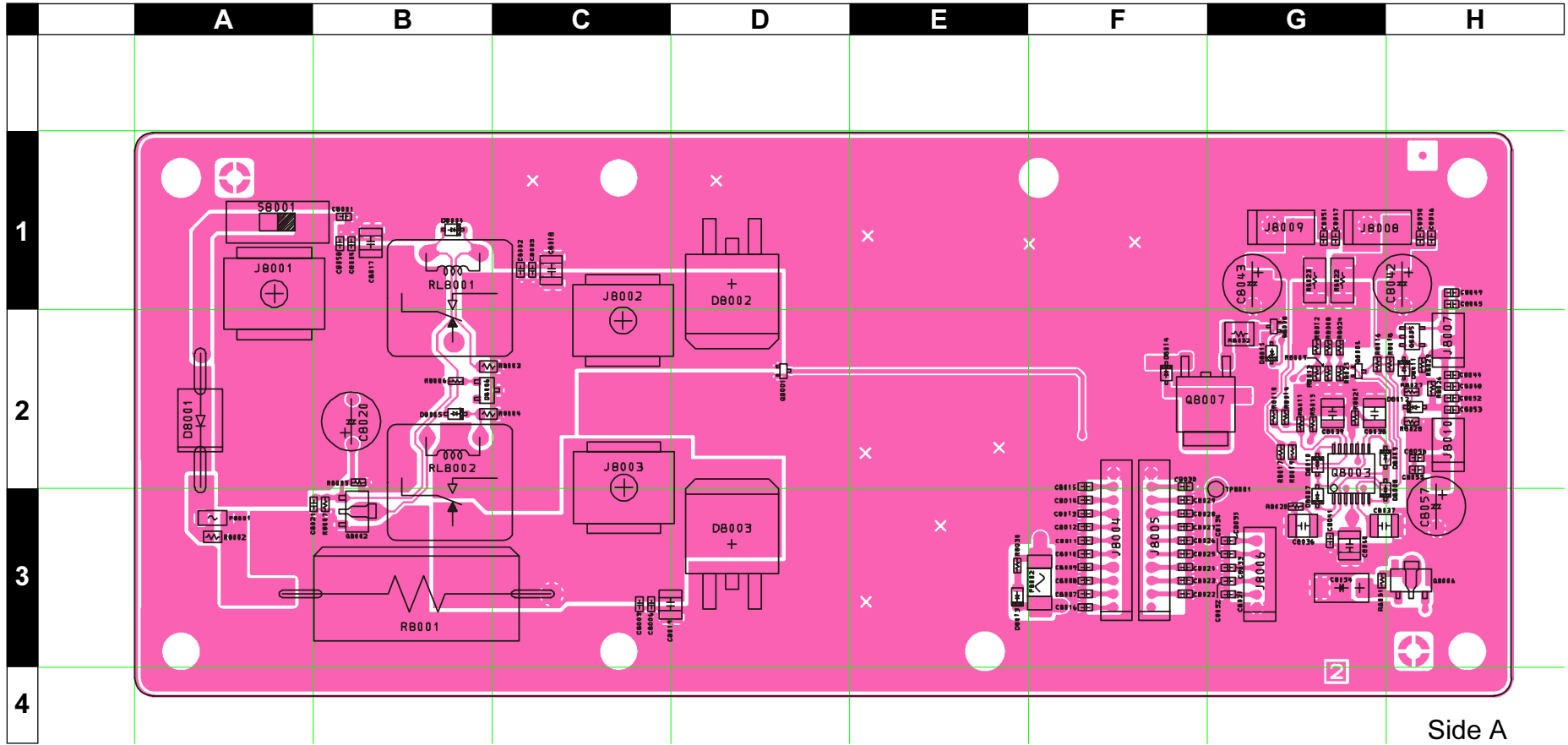
# RELAY Unit (Option)

## Circuit Diagram



# RELAY Unit (Option)

## Parts Layout



# RELAY Unit (Option)

## Parts List

| REF                   | DESCRIPTION     | VALUE   | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.  | LOT | SIDE | LAYADR |
|-----------------------|-----------------|---------|-----|------|--------------------|-----------|--------|-----|------|--------|
| PCB with Components   |                 |         |     |      |                    | CS1864001 |        |     |      |        |
| Printed Circuit Board |                 |         |     |      |                    | FR013020C | VER. C | 1-  |      |        |
| C 8001                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | B1     |
| C 8002                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | C2     |
| C 8003                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | C3     |
| C 8004                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | B1     |
| C 8005                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | C2     |
| C 8006                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | C3     |
| C 8007                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8008                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8009                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8010                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8011                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8012                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8013                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8014                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8015                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8016                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8017                | CHIPCAP.        | 1uF     | 50V | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    | B1     |
| C 8018                | CHIPCAP.        | 1uF     | 50V | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    | C2     |
| C 8019                | CHIPCAP.        | 1uF     | 50V | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    | C3     |
| C 8020                | AL.ELECTRO.CAP. | 100uF   | 25V |      | RJ3-25V101MF3#-T2  | K46140010 |        | 1-  | A    | B2     |
| C 8021                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | B3     |
| C 8022                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8023                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8024                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8025                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8026                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8027                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8028                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8029                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8030                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | F3     |
| C 8031                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | G3     |
| C 8032                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | G3     |
| C 8033                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | G3     |
| C 8034                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | G3     |
| C 8035                | CHIPCAP.        | 0.001uF | 50V | B    | GRM188B11H102KA01D | K22174809 |        | 1-  | A    | G3     |
| C 8036                | CHIPCAP.        | 1uF     | 50V | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    | G3     |
| C 8037                | CHIPCAP.        | 1uF     | 50V | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    | G3     |
| C 8038                | CHIPCAP.        | 1uF     | 50V | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    | G2     |
| C 8039                | CHIPCAP.        | 1uF     | 50V | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    | G2     |
| C 8040                | CHIPCAP.        | 1uF     | 50V | B    | GRM42-2B105K50PT   | K22175801 |        | 1-  | A    | G3     |
| C 8041                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | G3     |
| C 8042                | AL.ELECTRO.CAP. | 100uF   | 25V |      | RJ3-25V101MF3#-T2  | K46140010 |        | 1-  | A    | H1     |
| C 8043                | AL.ELECTRO.CAP. | 100uF   | 25V |      | RJ3-25V101MF3#-T2  | K46140010 |        | 1-  | A    | G1     |
| C 8044                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | H2     |
| C 8045                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | H2     |
| C 8046                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | H1     |
| C 8047                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | G1     |
| C 8048                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | H2     |
| C 8049                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | H2     |
| C 8050                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | H1     |
| C 8051                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | G1     |
| C 8052                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | H2     |
| C 8053                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | H2     |
| C 8054                | CHIP TA.CAP.    | 10uF    | 25V |      | TEMSVC1E106M12R    | K78140021 |        | 1-  | A    | G3     |
| C 8055                | CHIPCAP.        | 100pF   | 50V | CH   | GRM1882C1H101JA01D | K22174235 |        | 1-  | A    | H3     |
| C 8056                | CHIPCAP.        | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |        | 1-  | A    | H3     |
| C 8057                | AL.ELECTRO.CAP. | 100uF   | 25V |      | RJ3-25V101MF3#-T2  | K46140010 |        | 1-  | A    | H3     |
| C 8058                | CHIPCAP.        | 10pF    | 50V | CH   | GRM1882C1H100JA01D | K22174211 |        | 1-  | A    | B1     |
| D 8001                | DIODE           |         |     |      | DSA3A1             | G2090445  |        | 1-  | A    | A3     |
| D 8002                | DIODE           |         |     |      | C30T04QH-TE24L     | G2070896  |        | 1-  | A    | D2     |
| D 8003                | DIODE           |         |     |      | C30T04QH-TE24L     | G2070896  |        | 1-  | A    | D3     |
| D 8004                | DIODE           |         |     |      | BAS316             | G2070716  |        | 1-  | A    | B1     |
| D 8005                | DIODE           |         |     |      | BAS316             | G2070716  |        | 1-  | A    | B2     |
| D 8006                | DIODE           |         |     |      | HZM9.1NB3TR        | G2070404  |        | 1-  | A    | B2     |
| D 8007                | DIODE           |         |     |      | 1SS355 TE-17       | G2070470  |        | 1-  | A    | G3     |
| D 8008                | DIODE           |         |     |      | 1SS355 TE-17       | G2070470  |        | 1-  | A    | G3     |
| D 8009                | DIODE           |         |     |      | 1SS355 TE-17       | G2070470  |        | 1-  | A    | G3     |
| D 8010                | DIODE           |         |     |      | 1SS355 TE-17       | G2070470  |        | 1-  | A    | G3     |
| D 8011                | DIODE           |         |     |      | 1SS355 TE-17       | G2070470  |        | 1-  | A    | H2     |
| D 8012                | DIODE           |         |     |      | 1SS355 TE-17       | G2070470  |        | 1-  | A    | H2     |
| D 8013                | LED             |         |     |      | SML-210VTT86       | G2070768  |        | 1-  | A    | E3     |

# RELAY Unit (Option)

## Parts List

| REF    | DESCRIPTION  | VALUE | V/W   | TOL. | MFR'S DESIG      | VXSTD P/N | VERS. | LOT | SIDE | LAYADR |
|--------|--------------|-------|-------|------|------------------|-----------|-------|-----|------|--------|
| D 8014 | DIODE        |       |       |      | BAS316           | G2070716  |       | 1-  | A    | F2     |
| D 8015 | DIODE        |       |       |      | UDZS TE-17 5.6B  | G2070910  |       | 1-  | A    | G2     |
| F 8001 | CHIPFUSE     | 1A    |       |      | R429 001         | Q0000089  |       | 1-  | A    | A3     |
| F 8002 | CHIPFUSE     | 15A   |       |      | 451 015.MR 15A   | Q0000105  |       | 1-  | A    | F3     |
| J 8001 | TERMINAL     |       |       |      | Y106             | S5000179  |       | 1-  | A    | A2     |
| J 8002 | TERMINAL     |       |       |      | Y106             | S5000179  |       | 1-  | A    | C2     |
| J 8003 | TERMINAL     |       |       |      | Y106             | S5000179  |       | 1-  | A    | C3     |
| J 8004 | CONNECTOR    |       |       |      | IL-Y-11P-S15T2-E | P0090653  |       | 1-  | A    | F3     |
| J 8005 | CONNECTOR    |       |       |      | IL-Y-11P-S15T2-E | P0090653  |       | 1-  | A    | F3     |
| J 8006 | CONNECTOR    |       |       |      | IL-Y-6P-S15T2-EF | P0091028  |       | 1-  | A    | G3     |
| J 8007 | CONNECTOR    |       |       |      | IL-Y-3P-S15T2-EF | P0090644  |       | 1-  | A    | H2     |
| J 8008 | CONNECTOR    |       |       |      | B2B-EH           | P0090666  |       | 1-  | A    | G1     |
| J 8009 | CONNECTOR    |       |       |      | B2B-EH           | P0090666  |       | 1-  | A    | G1     |
| J 8010 | CONNECTOR    |       |       |      | IL-Y-3P-S15T2-EF | P0090644  |       | 1-  | A    | H3     |
| Q 8001 | TRANSISTOR   |       |       |      | DTC144EE TL      | G3070075  |       | 1-  | A    | D2     |
| Q 8002 | TRANSISTOR   |       |       |      | 2SD1664 T100 Q   | G3416647Q |       | 1-  | A    | B3     |
| Q 8003 | IC           |       |       |      | LM2902PWR        | G1094009  |       | 1-  | A    | G3     |
| Q 8004 | TRANSISTOR   |       |       |      | DTC144EE TL      | G3070075  |       | 1-  | A    | G2     |
| Q 8005 | TRANSISTOR   |       |       |      | FMG2 T148        | G3070015  |       | 1-  | A    | H2     |
| Q 8006 | TRANSISTOR   |       |       |      | 2SD1664 T100 Q   | G3416647Q |       | 1-  | A    | H3     |
| Q 8007 | TRANSISTOR   |       |       |      | 2SB1201S-TL      | G3070195  |       | 1-  | A    | F2     |
| Q 8008 | TRANSISTOR   |       |       |      | DTC144EE TL      | G3070075  |       | 1-  | A    | G2     |
| R 8001 | CEMENTRES.   | 5.6   | 5W    | 10%  | ERF-5AK5R6       | J30376569 |       | 1-  | A    | C3     |
| R 8003 | CHIPRES.     | 22    | 1/10W | 5%   | RMC1/10T 220J    | J24205220 |       | 1-  | A    | B2     |
| R 8004 | CHIPRES.     | 22    | 1/10W | 5%   | RMC1/10T 220J    | J24205220 |       | 1-  | A    | B2     |
| R 8005 | CHIPRES.     | 150k  | 1/16W | 5%   | RMC1/16 154JATP  | J24185154 |       | 1-  | A    | B3     |
| R 8006 | CHIPRES.     | 10k   | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | B2     |
| R 8007 | CHIPRES.     | 22k   | 1/16W | 5%   | RMC1/16 223JATP  | J24185223 |       | 1-  | A    | B3     |
| R 8008 | CHIPRES.     | 18k   | 1/16W | 1%   | RMC1/16 183FTP   | J24183183 |       | 1-  | A    | G2     |
| R 8009 | CHIPRES.     | 100k  | 1/16W | 1%   | RMC1/16 104FTP   | J24183104 |       | 1-  | A    | G2     |
| R 8010 | CHIPRES.     | 18k   | 1/16W | 1%   | RMC1/16 183FTP   | J24183183 |       | 1-  | A    | G2     |
| R 8011 | CHIPRES.     | 100k  | 1/16W | 1%   | RMC1/16 104FTP   | J24183104 |       | 1-  | A    | G2     |
| R 8012 | CHIPRES.     | 10k   | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | G2     |
| R 8013 | CHIPRES.     | 68k   | 1/16W | 5%   | RMC1/16 683JATP  | J24185683 |       | 1-  | A    | G2     |
| R 8014 | CHIPRES.     | 10k   | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | G2     |
| R 8015 | CHIPRES.     | 68k   | 1/16W | 5%   | RMC1/16 683JATP  | J24185683 |       | 1-  | A    | G2     |
| R 8016 | CHIPRES.     | 10k   | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | G2     |
| R 8017 | CHIPRES.     | 10k   | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | G3     |
| R 8018 | CHIPRES.     | 10k   | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | H2     |
| R 8019 | CHIPRES.     | 10k   | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | G3     |
| R 8020 | CHIPRES.     | 100k  | 1/16W | 5%   | RMC1/16 104JATP  | J24185104 |       | 1-  | A    | G3     |
| R 8021 | CHIPRES.     | 100k  | 1/16W | 5%   | RMC1/16 104JATP  | J24185104 |       | 1-  | A    | G2     |
| R 8022 | CHIPRES.     | 18    | 1/2W  | 5%   | RMC1/2 180JTE    | J24275180 |       | 1-  | A    | G2     |
| R 8023 | CHIPRES.     | 18    | 1/2W  | 5%   | RMC1/2 180JTE    | J24275180 |       | 1-  | A    | G2     |
| R 8024 | CHIPRES.     | 33k   | 1/16W | 5%   | RMC1/16 333JATP  | J24185333 |       | 1-  | A    | G2     |
| R 8025 | CHIPRES.     | 5.6k  | 1/16W | 5%   | RMC1/16 562JATP  | J24185562 |       | 1-  | A    | G2     |
| R 8026 | CHIPRES.     | 33k   | 1/16W | 5%   | RMC1/16 333JATP  | J24185333 |       | 1-  | A    | H2     |
| R 8027 | CHIPRES.     | 33k   | 1/16W | 5%   | RMC1/16 333JATP  | J24185333 |       | 1-  | A    | H2     |
| R 8028 | CHIPRES.     | 10k   | 1/16W | 5%   | RMC1/16 103JATP  | J24185103 |       | 1-  | A    | H2     |
| R 8029 | CHIPRES.     | 33k   | 1/16W | 5%   | RMC1/16 333JATP  | J24185333 |       | 1-  | A    | H2     |
| R 8030 | CHIPRES.     | 560   | 1/16W | 5%   | RMC1/16 561JATP  | J24185561 |       | 1-  | A    | E3     |
| R 8031 | CHIPRES.     | 1k    | 1/16W | 5%   | RMC1/16 102JATP  | J24185102 |       | 1-  | A    | G3     |
| R 8032 | CHIPRES.     | 1k    | 1/4W  | 5%   | RMC1/4 102JATP   | J24245102 |       | 1-  | A    | G2     |
| RL8001 | RELAY        |       | DC12V |      | ACP131 DC12V     | M1190152  |       | 1-  | A    | C2     |
| RL8002 | RELAY        |       | DC12V |      | ACP131 DC12V     | M1190152  |       | 1-  | A    | C3     |
| S 8001 | SLIDE SWITCH |       |       |      | S55912N-2A-OR    | N6090094  |       | 1-  | A    | A1     |
| TP8001 | TERMINAL     |       |       |      | TP-K IPS-1136    | Q5000050  |       | 1-  | A    | G3     |







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