

# YAESU

## FT-60R/E

### Technical Supplement

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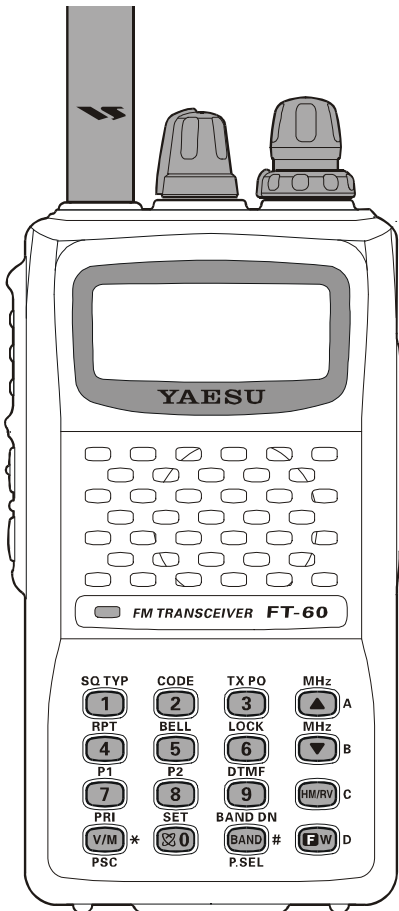
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## Introduction

This manual provides the technical information necessary for servicing the **FT-60R/E** VHF/UHF Dual Band Transceiver.

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.

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

|   |  |
|---|--|
| <b>Frequency Ranges:</b><br>(Cellular Blocked)  | RX 108 - 137 MHz (Air Band),<br>137 - 520 MHz (AM/FM),<br>700 - 999.990 MHz (FM)   |
|   | TX 144-148 MHz, 430-450 MHz  |
| <b>Channel Steps:</b>                           | 5/10/12.5/15/20/25/50/100 kHz  |
| <b>Frequency Stability:</b>                     | ±5 ppm @ 14 °F to 140 °F (−10 °C to +60 °C)  |
| <b>Repeater Shift:</b>                          | ±600 kHz (144 MHz), ±1.6/5.0/7.6 MHz (430 MHz)   |
| <b>Emission Type:</b>                           | F2 (F2D), F3 (F3E)   |
| <b>Antenna Impedance:</b>                       | 50 W   |
| <b>Supply Voltage:</b><br>(Negative Ground)     | Nominal: 7.2 V DC, Negative Ground<br>Operating: 6.0 ~ 16.0 V DC (EXT DC Jack)<br>11.0 ~ 16.0 V DC (EXT DC Jack with Charging)   |
| <b>Current Consumption:</b><br>(Approx. @7.2 V) | 125 mA (Receive)<br>45 mA (144 MHz, Standby, Saver Off)<br>47 mA (430 MHz, Standby, Saver Off)<br>19 mA (Standby, Saver On)<br>0.8 mA (Auto Power Off)<br>1.5 A (5 W TX, 144 MHz)<br>1.6 A (5 W TX, 430 MHz) |
| <b>Operating Temperature:</b>                   | −4 °F to 140 °F (−20 °C to +60 °C)   |
| <b>Case Size:</b>                               | 2.3" (W) x 4.3" (H) x 1.2" (D) (58 x 109 x 30 mm) (W/O knob, antenna, and belt clip)   |
| <b>Weight:</b>                                  | 13.05 Oz (370 g) with FNB-83, and antenna  |

## Transmitter

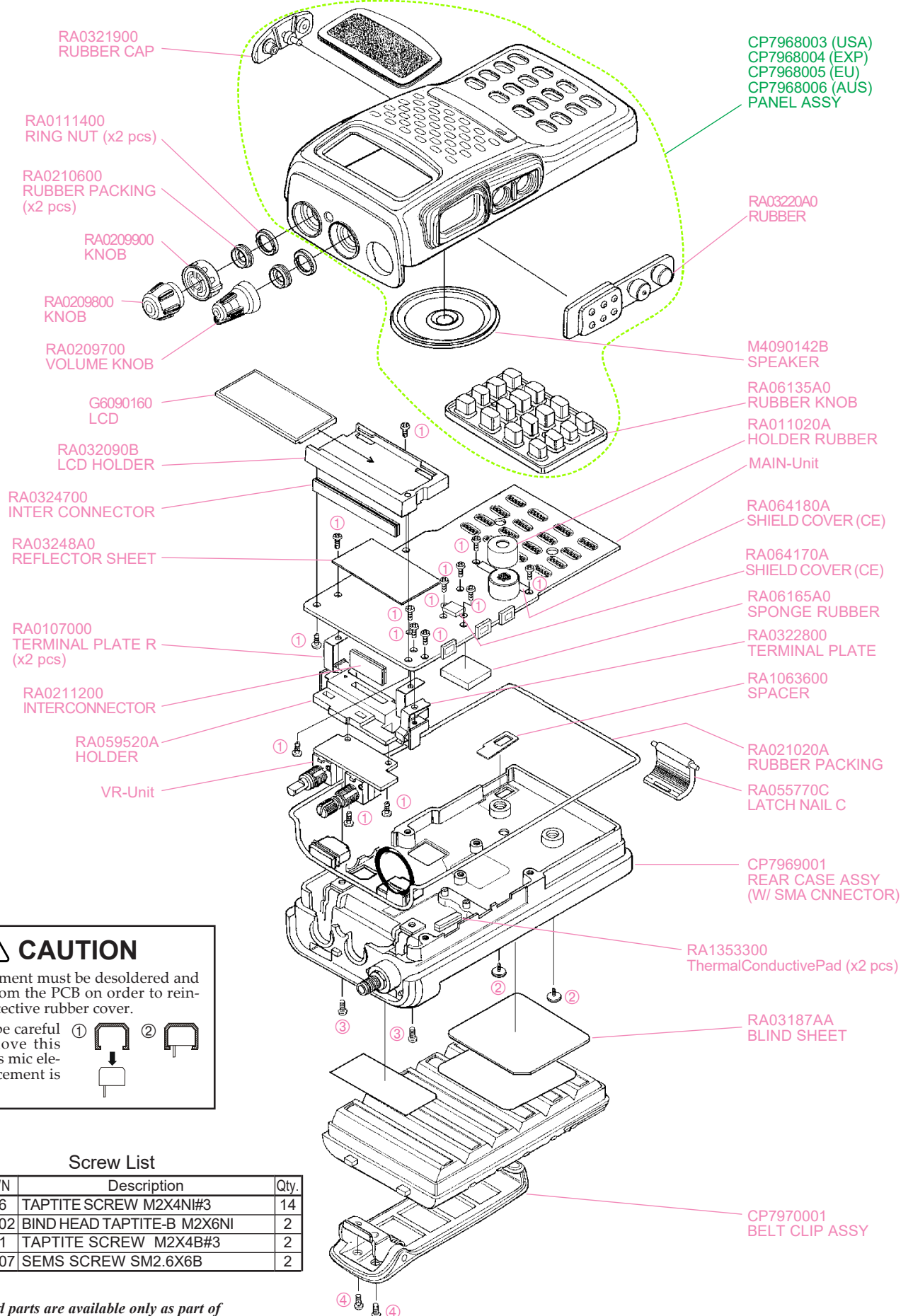
|                              |  |
|------------------------------|--|
| <b>RF Power Output:</b>      | 5.0 W (High) / 2.0 W (Middle) / 0.5 W (Low) (Approx.)                              |
| <b>Modulation Type:</b>      | Variable Reactance F2 (F2D), F3 (F3E)  |
| <b>Maximum Deviation:</b>    | ±5.0 kHz (F2D, F3E)  |
| <b>Spurious Emission:</b>    | At least 60 dB down (@ High and Middle power)<br>At least 40 dB down (@ Low power) |
| <b>Microphone Impedance:</b> | 2 kW   |

## Receiver

|  |   |
|--|---|
| <b>Circuit Type:</b>                       | Double-Conversion Superheterodyne   |
| <b>Intermediate Frequencies:</b>           | 1st: 47.25 MHz, 2nd: 450 kHz  |
| <b>Sensitivity :</b><br>(Cellular Blocked) | 0.8 µV TYP for 10 dB SN (108-137 MHz, AM)<br>0.2 µV for 12 dB SINAD (137-140 MHz, FM)<br>0.16 µV for 12 dB SINAD (140-150 MHz, FM)<br>0.2 µV for 12 dB SINAD (150-174 MHz, FM)<br>0.3 µV TYP for 12 dB SINAD (174-300 MHz, FM)<br>0.8 µV for 10 dB SN (300-336 MHz, AM)<br>0.25 µV for 12 dB SINAD (336-420 MHz, FM)<br>0.2 µV for 12 dB SINAD (400-470 MHz, FM)<br>0.25 µV for 12 dB SINAD (470-520 MHz, FM)<br>0.5 µV TYP for 12 dB SINAD (800-900 MHz, FM)<br>0.8 µV TYP for 12 dB SINAD (800-999.990 MHz, FM) |
| <b>Selectivity:</b>                        | 12 kHz/35 kHz (−6 dB /−60 dB)   |
| <b>AF Output:</b>                          | 400 mW @ 8 W for 10 % THD (@ 7.5 V)   |

*Specifications are subject to change without notice, and are guaranteed within the 144 and 430 MHz amateur bands only. Frequency ranges will vary according to transceiver version; check with your dealer.*

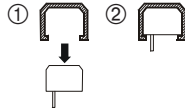
# Exploded View & Miscellaneous Parts



## CAUTION

The mic element must be desoldered and removed from the PCB in order to re-install its protective rubber cover.

Therefore, be careful not to remove this cover unless mic element replacement is necessary.



## Screw List

| No. | VXSTD P/N | Description                | Qty. |
|-----|-----------|----------------------------|------|
| ①   | U9900276  | TAPTITE SCREW M2X4NI#3     | 14   |
| ②   | U24106002 | BIND HEAD TAPTITE-B M2X6NI | 2    |
| ③   | U9900051  | TAPTITE SCREW M2X4B#3      | 2    |
| ④   | U02206007 | SEMS SCREW SM2.6X6B        | 2    |

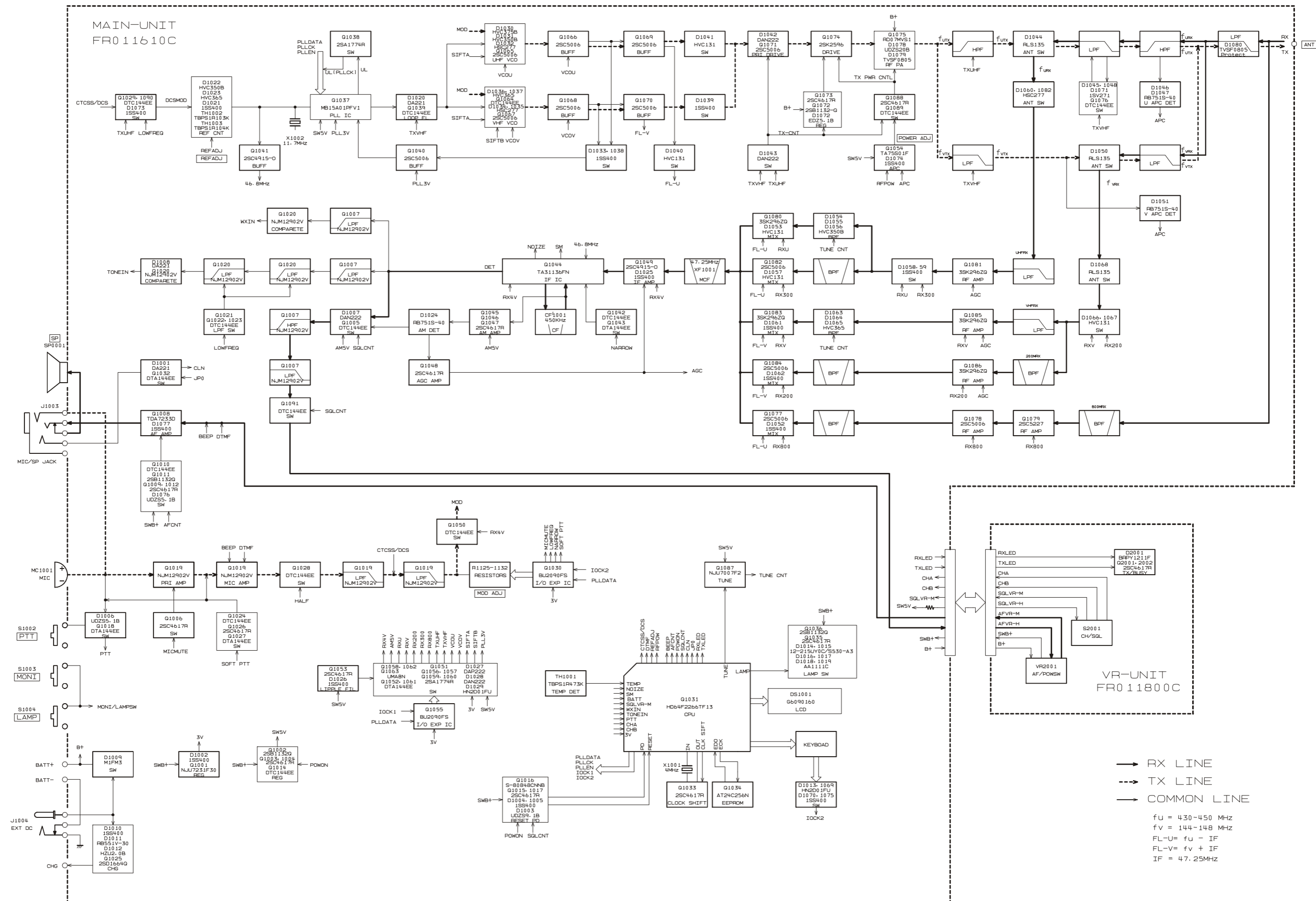
Non-designated parts are available only as part of a designated assembly.

**FT-60R/E Technical Supplement**

# *Exploded View & Miscellaneous Parts*

*Note*

# Block Diagram



## *Block Diagram*

*Note*

## VHF Reception

Incoming VHF signal is passed through the low-pass filter network, antenna switching diode **D1066 (HVC131)** and **D1068 (RLS135)**, and low-pass filter network to the RF amplifier **Q1085 (3SK296ZQ)**. The amplified RF signal is passed through band-pass filtered again by varactor-tuned resonators L1060, L1061 and L1062, and **D1063**, **D1064**, and **D1065** (all **HVC365**), then applied to the 1st mixer **Q1083 (3SK296ZQ)** along with the first local signal from the PLL circuit.

The first local signal is generated between 191.25 MHz and 195.25 MHz by the VHF VCO, which consists of **Q1067 (2SC5006)**, switching diodes **D1034**, **D1035** (both **HSC277**), and varactor diodes **D1036**, **D1037** (both **HVC365**) according to the receiving frequency.

## UHF Reception

Incoming UHF signal is passed through the low-pass filter network, antenna switching diodes **D1060** and **D1082** (both **HSC277**), and Low-pass filter network to the RF amplifier **Q1081 (3SK296ZQ)**. The amplified RF signal is passed through band-pass filtered again by varactor-tuned resonators L1049, L1050 and L1051, and **D1054**, **D1055**, and **D1056** (all **HVC350B**), then applied to the 1st mixer **Q1080 (3SK296ZQ)** along with the first local signal from the PLL circuit.

The first local signal is generated between 382.75 MHz and 402.75 MHz by the UHF VCO, which consists of **Q1065 (2SC5006)** and varactor diodes **D1030 (HVC375B)**, **D1031 (HVC350B)** and switching diode **D1032 (HSC277)** according to the receiving frequency.

## IF and Audio Circuits

The 47.25 MHz first IF signal is applied to the monolithic crystal filters XF1001 which strip away unwanted mixer products, and the IF signal is applied to the first IF amplifier **Q1049 (2SC4915)**. The amplified first IF signal is then delivered to the FM IF subsystem IC **Q1044 (TA31136FN)**, which contains the second mixer, limiter amplifier, noise amplifier, and FM detector.

The second local signal is generated by 46.8 MHz crystal X1002 and **Q1041 (2SC4915)**, produces the 450 kHz second IF signal when mixed with first IF signal within **Q1044 (TA31136FN)**.

The 450 kHz second IF signal is applied to the ceramic filter CF1001 which strip away unwanted mixer products to the ceramic discriminator CD1001 which removes any amplitude variations in the 450 kHz IF signal before detection of speech.

The detected audio passes through the de-emphasis network, low-pass filter consisting of **Q1007 (NJM12902V)**

and associated circuitry, and high-pass filter consisting of **Q1007 (NJM12902V)** and associated circuitry. The filtered audio signal is applied to the audio volume, then passes through the AF amplifier **Q1008 (TDA7233D)** and MIC/SP jack to the internal speaker or an external speaker.

## Squelch Control

When no carrier received, noise at the output of the detector stage in **Q1044 (TA31136FN)** is amplified and band-pass filtered by the noise amp section of **Q1044 (TA31136FN)**. The resulting DC voltage is applied to pin 47 of main CPU **Q1031 (HD64F2266)**, which compares the squelch threshold level to that which set by the SQL knob.

While no carrier is received, pin 35 of **Q1031 (HD64F2266)** remains "low," squelch gate **Q1005** and **Q1091** (both **DTC144EE**) to turns off to disable any demodulated audio pass.

## Transmit Signal Path

The speech signal from the microphone to AF amplified **Q1019 (NJM12902V)**. The amplified speech signal passes through low-pass filter network **Q1019 (NJM12902V)** to deviation controlled by **Q1030 (BU2090FS)**.

## VHF Transmit Signal Path

The adjusted speech signal is delivered to VHF VCO **Q1067 (2SC5006)** which frequency modulates the transmitting VCO made up of **D1037 (HVC365)**.

The modulated transmit signal passes through buffer amplifier **Q1068** and **Q1070** (both **2SC5006**).

The filtered transmit signal applied to the Pre-Drive amplifier **Q1071 (2SC5006)** and Drive amplifier **Q1074 (2SK2596)**, then finally amplified by Power amplifier **Q1075 (RD07MVS1)** up to 5 Watts. This two stages power amplifier's gain is controlled by the APC circuit.

The 5 Watts RF signal passes through low-pass filter network, antenna switch **D1050 (RLS135)**, and another low-pass filter network, and then deliver to the ANT jack.

## UHF Transmit Signal Path

The adjusted speech signal is delivered to UHF VCO **Q1065 (2SC5006)** which frequency modulates the transmitting VCO made up of **D1030 (HVC375)**.

The modulated transmit signal passes through buffer amplifier **Q1066** and **Q1069** (both **2SC5006**).

The filtered transmit signal applied to the Pre-Drive amplifier **Q1071 (2SC5006)** and Drive amplifier **Q1074 (2SK2596)**, then finally amplified by Power amplifier **Q1075 (RD07MVS1)** up to 5 Watts. This two stages power amplifier's gain is controlled by the APC circuit.

## *Circuit Description*

The 5 Watts RF signal passes through high-pass filter and high-pass filter network, antenna switch **D1044 (RLS135)**, and another low-pass filter network, and then deliver to the ANT jack.

### *TX APC Circuit*

A portion of the Power amplifier output is rectified by **D1051** (UHF: **D1046** and **D1047**) (all **RB751S**), then delivered to APC **Q1054 (TA75S01F)**, as a DC voltage which is proportional to the output level of the power amplifier.

The APC **Q1054 (TA75S01F)** is compared the rectified DC voltage from the power amplifier and the reference voltage from the main CPU **Q1031 (HD64F2266)**, to produce a control voltage, which regulates supply voltage to the Drive amplifier **Q1074 (2SK2596)** and Power amplifier **Q1075 (RD07MVS1)**, so as to maintain stable output power under varying antenna loading condition.

### *PLL*

A portion of the output from the VCO **Q1065** (UHF: **2SC5006**) and **Q1067** (VHF: **2SC5006**), passes through buffer amplifier **Q1066** (UHF), **Q1068** (VHF), and **Q1040** (all **2SC5006**) programmable divider section of the PLL IC **Q1037 (MB15A01PFV1)**, which divided according to the frequency dividing data that is associated with the setting frequency input from the main CPU **Q1031 (HD64F2266)**. It is then sent to the phase comparator.

The 11.7 MHz frequency of the reference oscillator circuit made up of X1002 is divided by the reference frequency divider section of **Q1037 (MB15A01PFV1)** into 2340 or 1872 parts to become 5 kHz or 6.25 kHz comparative reference frequencies, which are utilized by the phase comparator.

The phase comparator section of **Q1037 (MB15A01PFV1)** compares the phase between the frequency-divided oscillation frequency of the VCO circuit and comparative frequency and its output is a pulse corresponding to the phase difference. This pulse is integrated by the charge pump and loop filter of **Q1037 (MB15A01PFV1)** into a control voltage (VCV) to control the oscillation frequency of the VCOs.



## Introduction

The **FT-60R/E** is carefully aligned at the factory for the specified performance across the amateur band. Realignment should therefore not be necessary except in the event of a component failure. Only an authorized Vertex Standard representative should perform all component replacement and service, or the warranty policy may be void.

The following procedures cover the adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts subsequently 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. 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 reserves 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 realignment determined to be absolutely necessary.

## Required Test Equipment

The following test equipment (and familiarity with its 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.

- RF Signal Generator with calibrated output level at 500 MHz
- Deviation Meter (linear detector)
- In-line Wattmeter with 5% accuracy at 500 MHz
- 50-Ohm 10-W RF Dummy Load
- 8-Ohm AF Dummy Load
- Regulated DC Power Supply adjustable from 6 to 15 VDC, 2A
- Frequency Counter: 0.2-ppm accuracy at 500 MHz
- AF Signal Generator
- AC Voltmeter
- DC Voltmeter: high impedance
- UHF Sampling Coupler
- SINAD Meter

## Alignment Preparation & Precautions

A 50-Ohm RF load and in-line wattmeter must be connected to the main antenna jack in all procedures that call for transmission; alignment is not possible with an antenna. After completing one step, read the next step to see if the same test equipment is required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

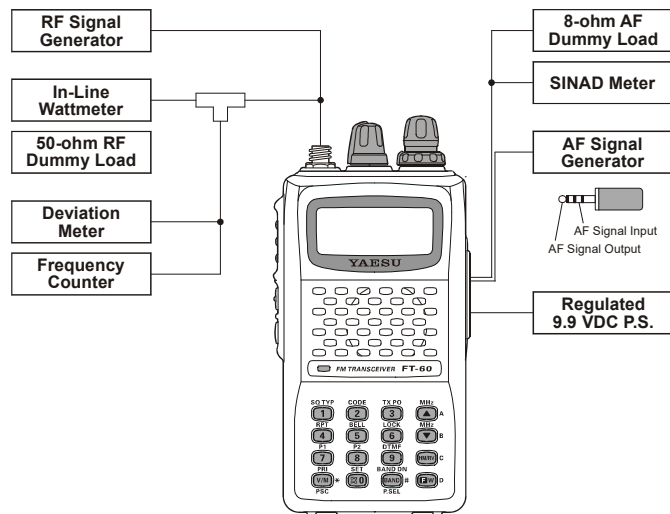
Correct alignment requires that the ambient temperature be the same as that of the transceiver and test equipment, and that this temperature be held constant between 68 ~ 86° F (20° ~ 30° C). When the transceiver is brought into the shop from hot or cold air, it should be allowed some time to come to 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 the alignment procedure are based on  $0\text{dB}\mu = 0.5\mu\text{V}$ .

# Alignment

## Test Setup

Set up the test equipment as shown below for transceiver alignment, and apply 9.9 V DC power to the transceiver. Refer to the drawings for Alignment Points.



**FT-60R/E ALIGNMENT SETUP**

## Entering the Alignment Mode

Alignment of the **FT-60R/E** is performed using a front panel software-based procedure. To perform alignment of the transceiver, it must first be placed in the "Alignment Mode," in which the adjustments will be made and then stored into memory.

To enter the Alignment mode:

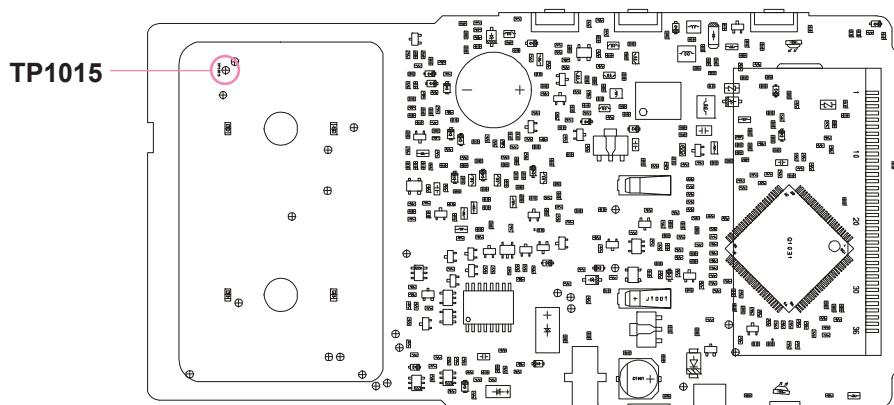
1. Press and hold in the **MONI** and **LAMP** switches turning the radio on. Once the radio is on, release these two switches.
2. Press the keypad in the following sequence:  
[▲(MHz)] → [0(⊗)SET] →  
[1(SQ TYP)] → [7(P1)] → [V/M(PRI)]
3. Press the **[F/W]** key to cause "AO REF.xxx" to appear on the display for five seconds, this signifies that the transceiver is now in the "Alignment Mode."

## PLL Reference Frequency

1. Tune the frequency to 435.050 MHz, then set the transmit power level to "LOW."
2. Press the **[F/W]** key, then press the **[BAND(BAND DN)]** key to set the alignment parameter to "AO REF.xxx," if needed.
3. Within five seconds of appearing the "AO REF.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the counter frequency reading is 435.050 MHz ( $\pm 100$  Hz).

## RF Front-end Tuning

1. Connect the DC voltmeter to **TP1015** on the MAIN unit, then inject a 439.050 MHz signal at a level of +10 dB $\mu$  (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
2. Tune the frequency to 439.050 MHz.
3. Press the **[F/W]** key, then press the **[BAND(BAND DN)]** key to set the alignment parameter to "A1 TUN.xxx."
4. Within five seconds of appearing the "A1 TUN.xxx" on the display, adjust the **DIAL** knob so that the DC voltmeter reaches maximum deflection. The **FT-60R/E**'s RF Front-end has a broad bandwidth. Therefore, prior to adjustment you must adjust the **DIAL** knob to set the frequency to the middle of the band, in step 2, so you can set peak in the DC voltmeter's deflection in the center of the RF passband.
5. Tune the frequency to 145.050 MHz.
6. Inject a 145.050 MHz signal at a level of +10 dB $\mu$  (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
7. Press the **[F/W]** key to recall the alignment parameter to "A1 TUN.xxx."
8. Within five seconds of appearing the "A1 TUN.xxx" on the display, adjust the **DIAL** knob so that the DC voltmeter reaches maximum deflection. As in the previous section, be sure to set the **DIAL** knob for the center of the band prior to making this adjustment.



**MAIN UNIT TEST POINT**

## TX Power Output

1. Tune the frequency to 440.050 MHz, then set the transmit power level to "LOW."
2. Press the **[F/W]** key, then press the **[BAND(BAND DN)]** key to set the alignment parameter to "A2 PWR.xxx."
3. Within five seconds of appearing the "A2 PWR.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the wattmeter reading is 0.5 Watts ( $\pm 0.05$  Watt).
4. Increase the Transmit power level to "MID."
5. Press the **[F/W]** key to recall the alignment parameter "A2 PWR.xxx."
6. Within five seconds of appearing the "A2 PWR.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the wattmeter reading is 2.0 Watts ( $\pm 0.1$  Watt).
7. Increase the Transmit power level to "HIGH."
8. Press the **[F/W]** key to recall the alignment parameter "A2 PWR.xxx."
9. Within five seconds of appearing the "A2 PWR.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the wattmeter reading is 5.0 Watts ( $\pm 0.1$  Watt).
10. Tune the frequency to 146.050 MHz, then set the transmit power level to "LOW."
11. Press the **[F/W]** key to recall the alignment parameter "A2 PWR.xxx."
12. Within five seconds of appearing the "A2 PWR.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the wattmeter reading is 0.5 Watts ( $\pm 0.05$  Watt).
13. Increase the Transmit power level to "MID."
14. Press the **[F/W]** key to recall the alignment parameter "A2 PWR.xxx."
15. Within five seconds of appearing the "A2 PWR.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the wattmeter reading is 2.0 Watts ( $\pm 0.1$  Watt).
16. Increase the Transmit power level to "HIGH."
17. Press the **[F/W]** key to recall the alignment parameter "A2 PWR.xxx" again.
18. Within five seconds of appearing the "A2 PWR.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the wattmeter reading is 5.0 Watts ( $\pm 0.1$  Watt).

## TX Deviation

1. Tune the frequency to 440.050 MHz, then set the transmit power level to "LOW."
2. Inject a 1 kHz audio tone at a level of 80 mV ( $-20$  dBm) from the audio generator.
3. Press the **[F/W]** key, then press the **[BAND(BAND DN)]** key to set the alignment parameter to "A3 DEV.xxx."
4. Within five seconds of appearing the "A3 DEV.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the deviation meter reading is 4.2 kHz ( $\pm 0.2$  kHz) (EXP version: 4.5 kHz  $\pm 0.2$  kHz).
5. Tune the frequency to 146.050 MHz, then set the transmit power level to "LOW."
6. Press the **[F/W]** key to recall the alignment parameter to "A3 DEV.xxx."
7. Within five seconds of appearing the "A3 DEV.xxx" on the display, press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the deviation meter reading is 4.2 kHz ( $\pm 0.2$  kHz) (EXP version: 4.5 kHz  $\pm 0.2$  kHz).

## DCS TX Deviation

1. Tune the frequency to 440.050 MHz, then activate the DCS, and set the transmit power level to "LOW."
2. Press the **[F/W]** key, then press the **[BAND(BAND DN)]** key to set the alignment parameter to "A4 DCS.xxx."
3. Within five seconds of appearing the "A4 DCS.xxx" on the display, press the **PTT** switch to activate the transmitter (with no microphone input), adjust the **DIAL** knob so that the deviation meter reading is 0.7 kHz ( $\pm 0.05$  kHz).
4. Tune the frequency to 146.050 MHz, then activate the DCS, and set the transmit power level to "LOW."
5. Press the **[F/W]** key to recall the alignment parameter to "A4 DCS.xxx."
6. Within five seconds of appearing the "A4 DCS.xxx" on the display, press the **PTT** switch to activate the transmitter (with no microphone input), adjust the **DIAL** knob so that the deviation meter reading is 0.7 kHz ( $\pm 0.05$  kHz).

# Alignment

## CTCSS TX Deviation

1. Tune the frequency to 440.050 MHz, then activate the CTCSS encoder with a “100 Hz” tone, and set the transmit power level to “LOW.”
2. Press the **[F/W]** key, then press the **[BAND(BAND DN)]** key to set the alignment parameter to “A5 CTC.xxx.”
3. Within five seconds of appearing the “A5 CTC.xxx” on the display, press the **PTT** switch to activate the transmitter (with no microphone input), adjust the **DIAL** knob so that the deviation meter reading is 0.7 kHz ( $\pm 0.05$  kHz).
4. Tune the frequency to 146.050 MHz, then activate the CTCSS encoder with a “100 Hz” tone, and set the transmit power level to “LOW.”
5. Press the **[F/W]** key to recall the alignment parameter to “A5 CTC.xxx.”
6. Within five seconds of appearing the “A5 CTC.xxx” on the display, press the **PTT** switch to activate the transmitter (with no microphone input), adjust the **DIAL** knob so that the deviation meter reading is 0.7 kHz ( $\pm 0.05$  kHz).

## S-meter Sensitivity

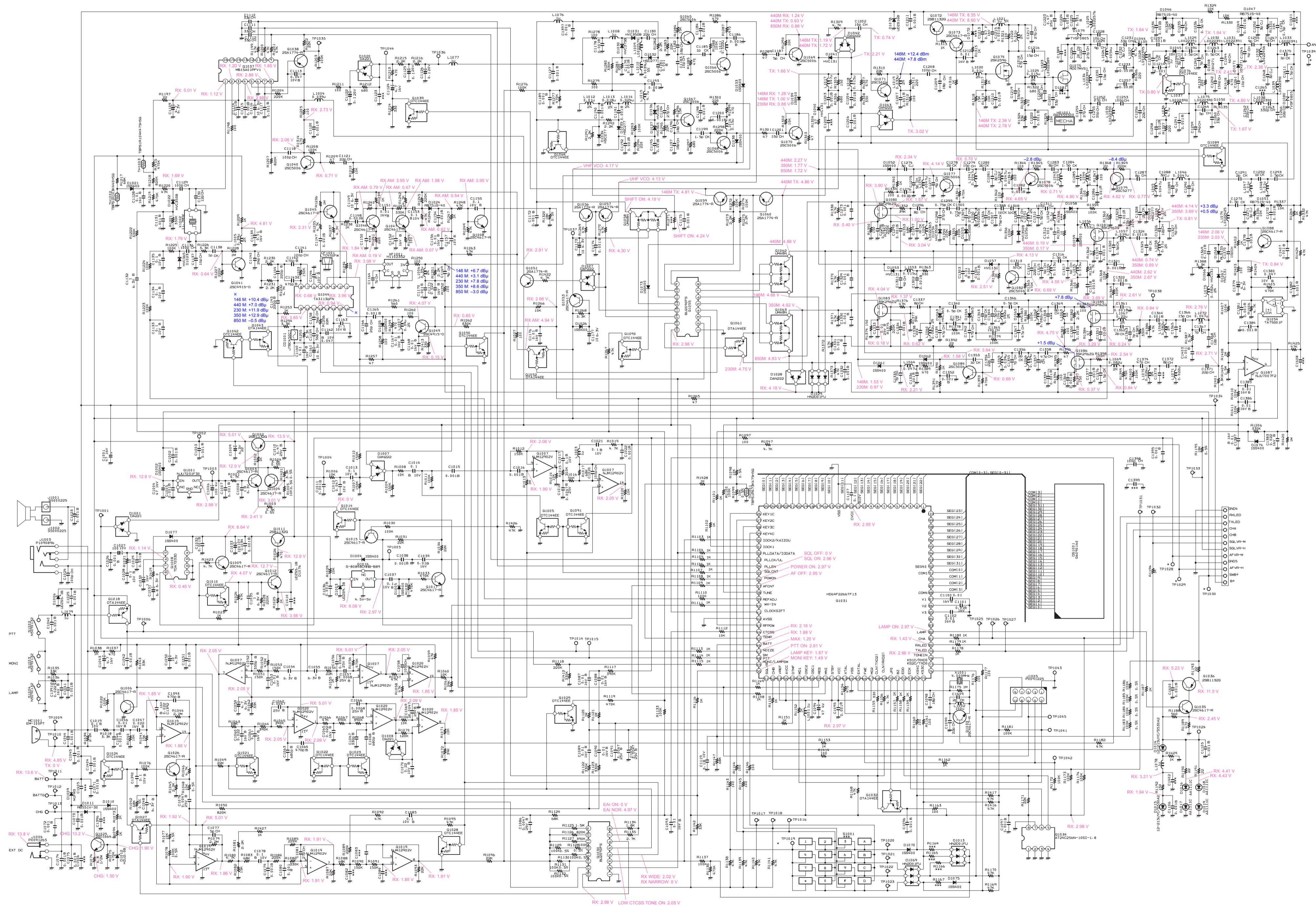
1. Tune the frequency to 440.050 MHz.
2. Inject a 440.050 MHz signal at a level of  $-5$  dB $\mu$ V (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
3. Press the **[F/W]** key, then press the **[BAND(BAND DN)]** key to set the alignment parameter to “A6 SM U/D.”
4. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▼(MHz)]** key.
5. Increase the RF signal generator output level to +23 dB $\mu$ V.
6. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
7. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▲(MHz)]** key.
8. Tune the frequency to 850.050 MHz.
9. Inject a 850.050 MHz signal at a level of  $+5$  dB $\mu$ V (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
10. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
11. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▼(MHz)]** key.
12. Increase the RF signal generator output level to +31 dB $\mu$ V.
13. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
14. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▲(MHz)]** key.

15. Tune the frequency to 146.050 MHz.
16. Inject a 146.050 MHz signal at a level of  $-5$  dB $\mu$ V (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
17. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
18. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▼(MHz)]** key.
19. Increase the RF signal generator output level to +23 dB $\mu$ V.
20. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
21. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▲(MHz)]** key.
22. Tune the frequency to 230.050 MHz.
23. Inject a 230.050 MHz signal at a level of  $-5$  dB $\mu$ V (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
24. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
25. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▼(MHz)]** key.
26. Increase the RF signal generator output level to +23 dB $\mu$ V.
27. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
28. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▲(MHz)]** key.
29. Tune the frequency to 350.050 MHz.
30. Inject a 350.050 MHz signal at a level of  $-5$  dB $\mu$ V (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
31. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
32. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▼(MHz)]** key.
33. Increase the RF signal generator output level to +23 dB $\mu$ V.
34. Press the **[F/W]** key to recall the alignment parameter to “A6 SM U/D.”
35. Within five seconds of appearing the “A6 SM U/D” on the display, press the **[▲(MHz)]** key.

## DC Voltmeter

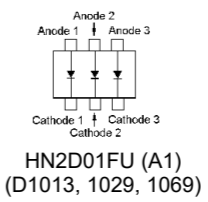
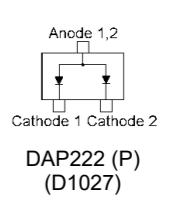
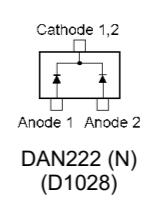
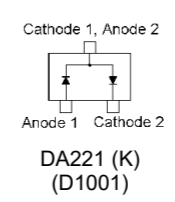
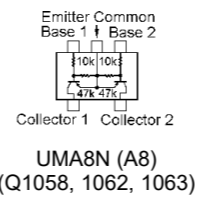
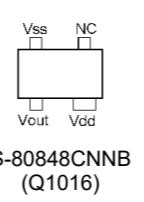
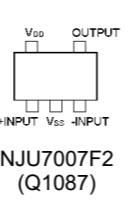
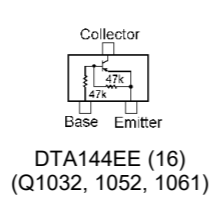
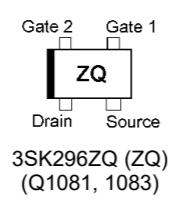
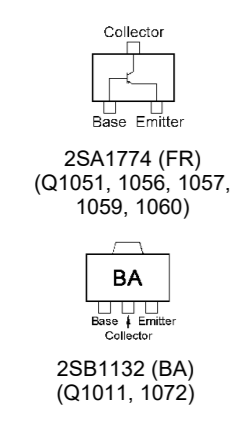
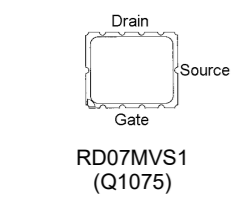
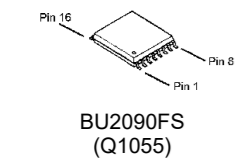
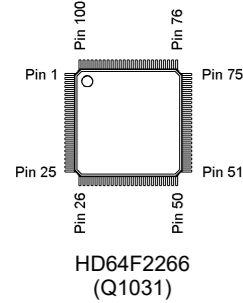
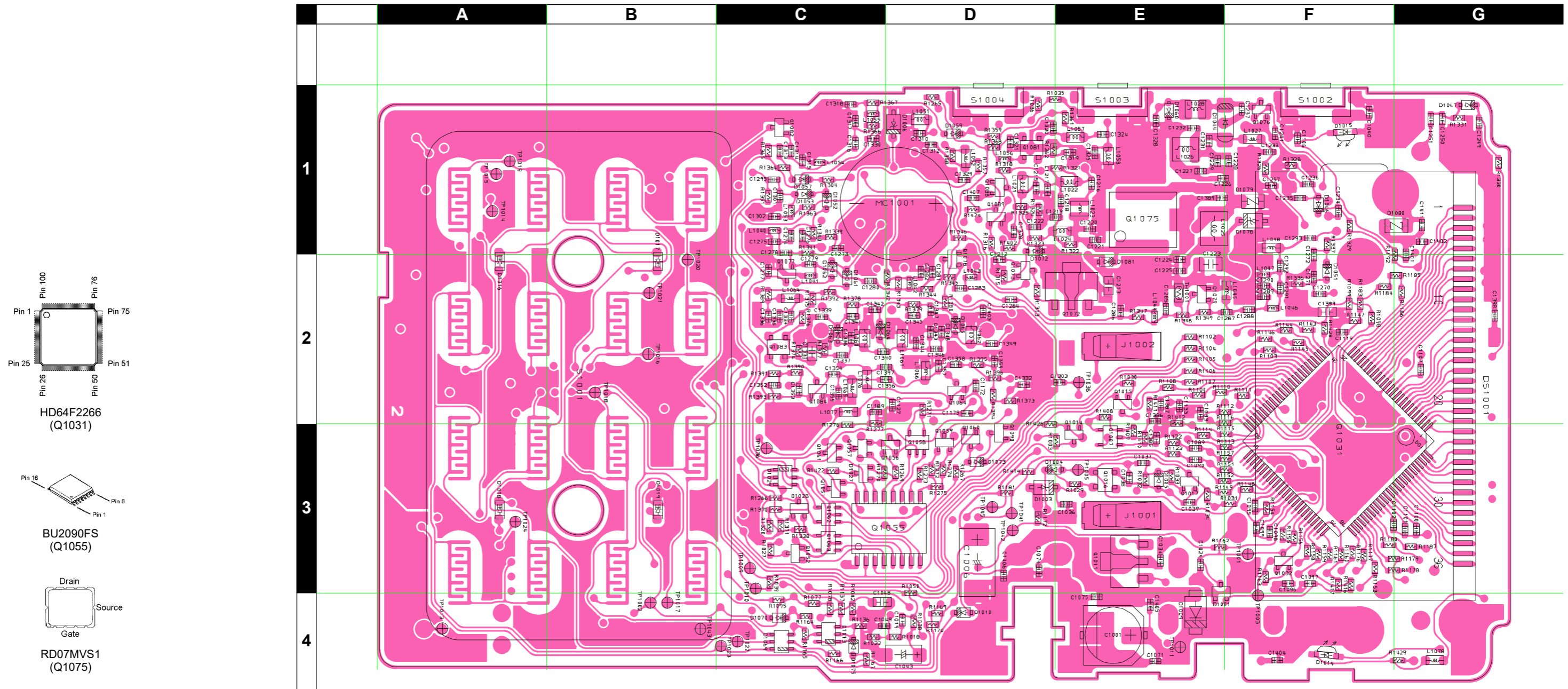
1. Set the power supply voltage to 9.9 V.
2. Press the **[F/W]** key, then press the **[BAND(BAND DN)]** key to set the alignment parameter to “A7 BAT RV.”
3. Within five seconds of appearing the “A7 BAT RV” on the display, press the **[HM/RV]** key.

To close the alignment mode, just turn the power off by rotating the **VOL** knob fully counter clockwise. The next time the transceiver is turned on, normal operation may resume.



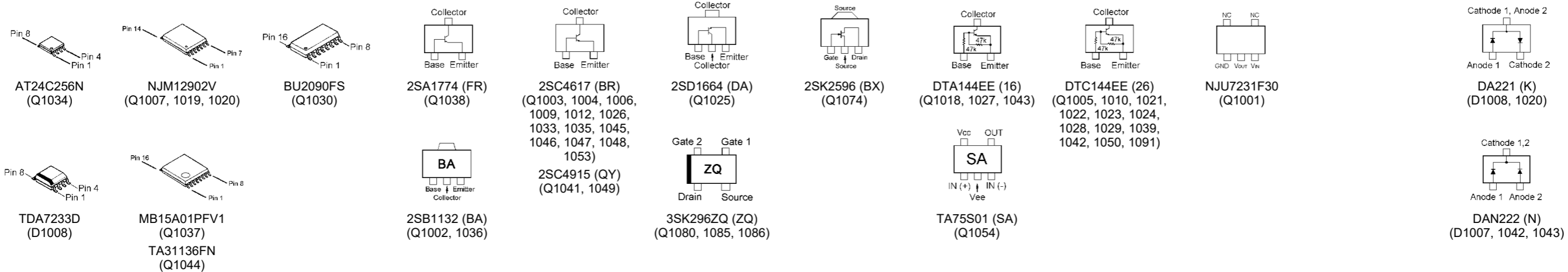
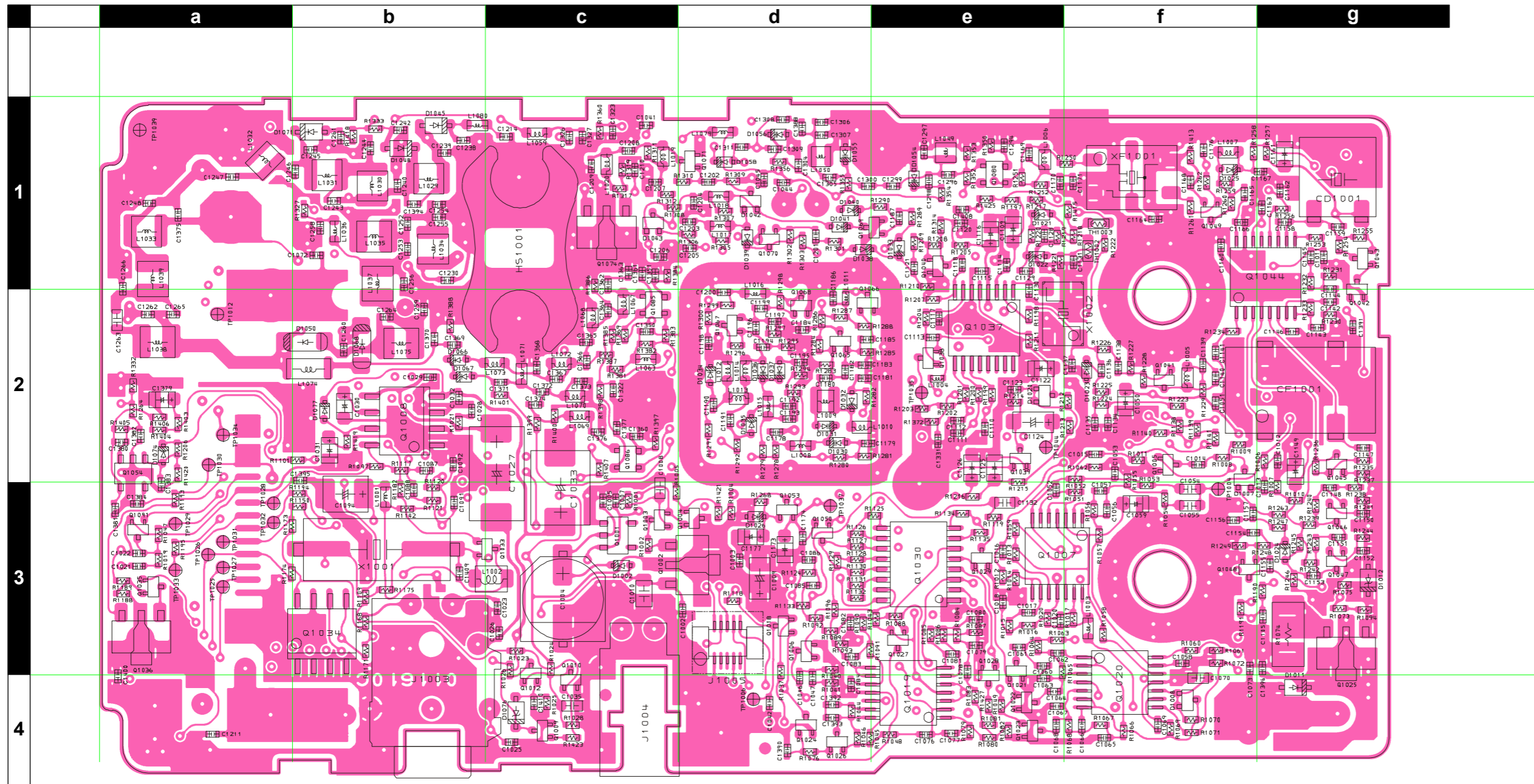
***MAIN Unit (Lot. 1 ~ 5)***

*Note*

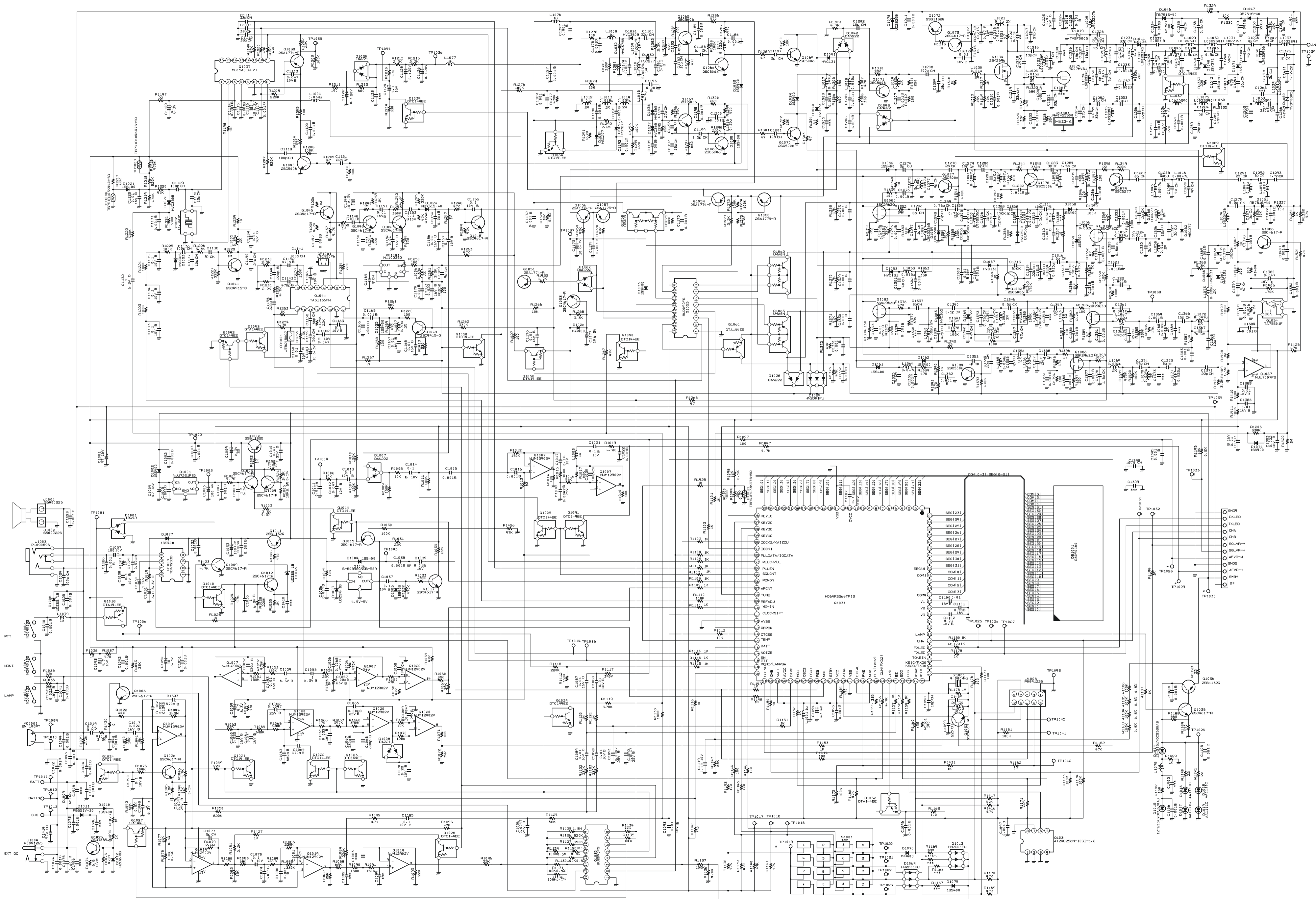


# MAIN Unit (Lot. 1 ~ 5)

## Parts Layout (Side B)

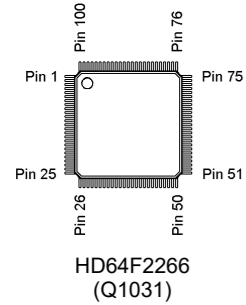
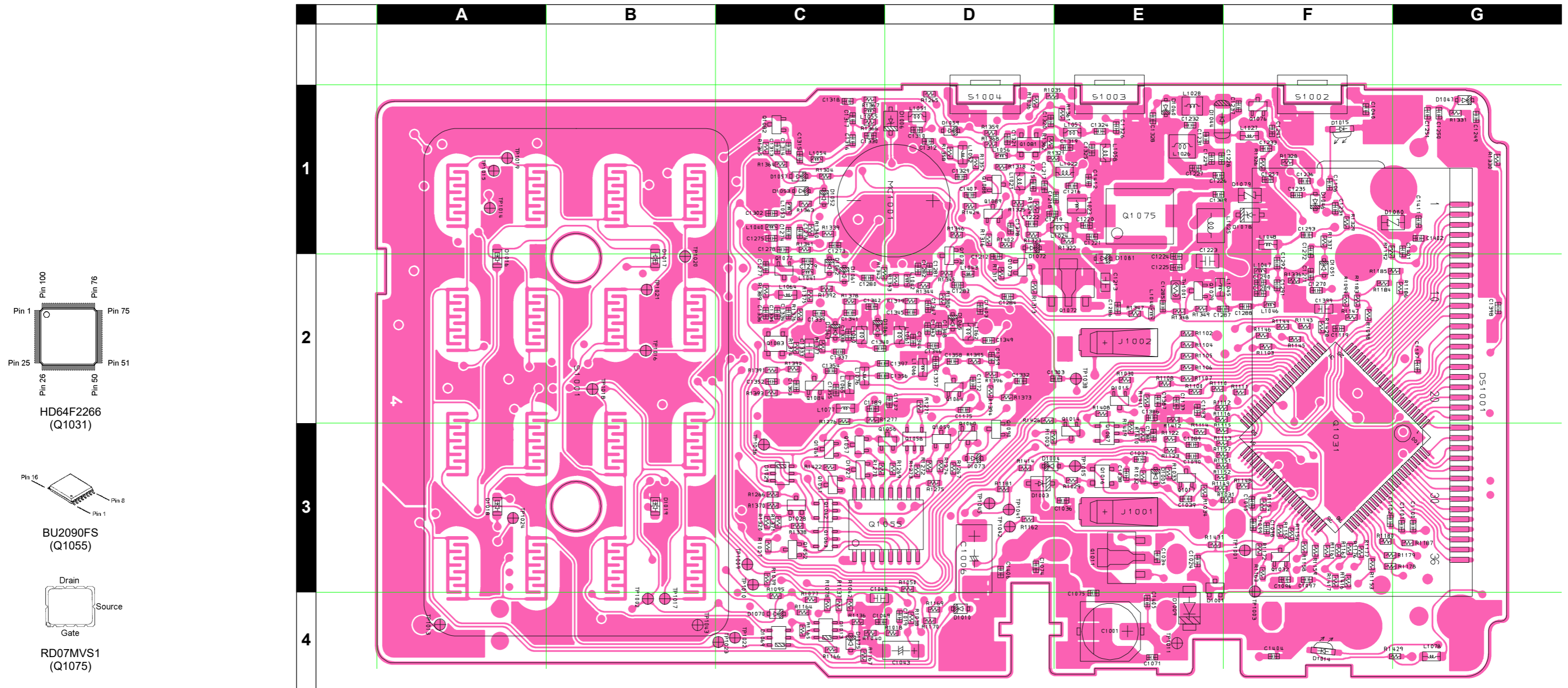




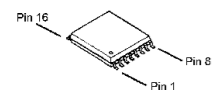


**MAIN Unit (Lot. 6 ~ 9)**

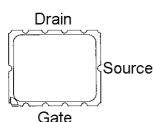
*Note*



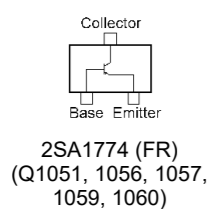
HD64F2266 (Q1031)



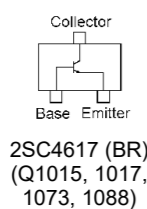
BU2090FS (Q1055)



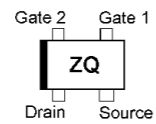
RD07MVS1 (Q1075)



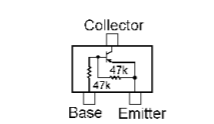
2SA1774 (FR) (Q1051, 1056, 1057, 1059, 1060)  
2SC4617 (BR) (Q1015, 1017, 1073, 1088)  
2SB1132 (BA) (Q1011, 1072)



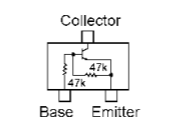
2SC5006 (24) (Q1077, 1078, 1082, 1084)  
2SC5277 (D2) (Q1079)



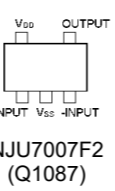
3SK296ZQ (ZQ) (Q1081, 1083)



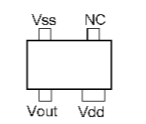
DTA144EE (16) (Q1032, 1052, 1061)



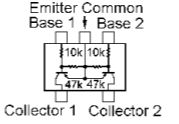
DTC144EE (26) (Q1014, 1064, 1076, 1089, 1090)



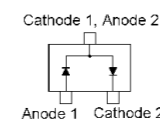
NJU7007F2 (Q1087)



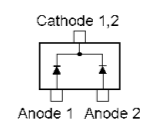
S-80848CNNB (Q1016)



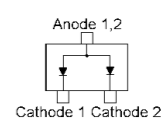
UMA8N (A8) (Q1058, 1062, 1063)



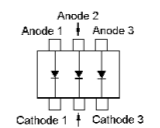
DA221 (K) (D1001)



DAN222 (N) (D1028)



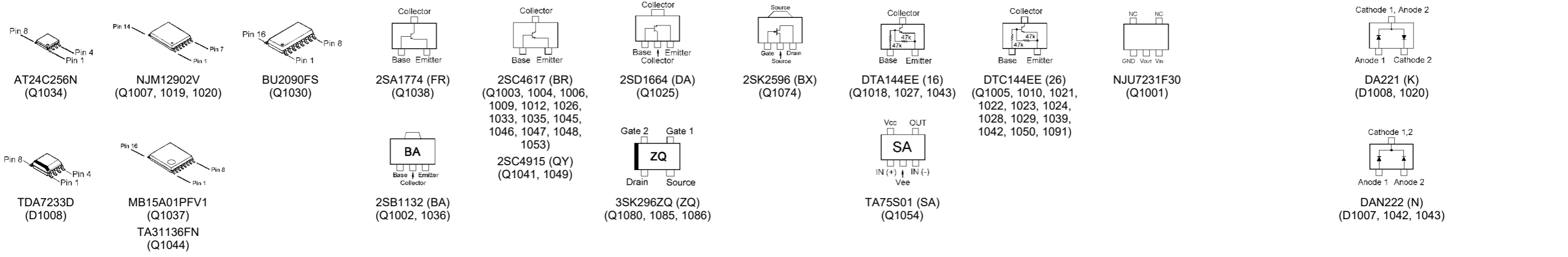
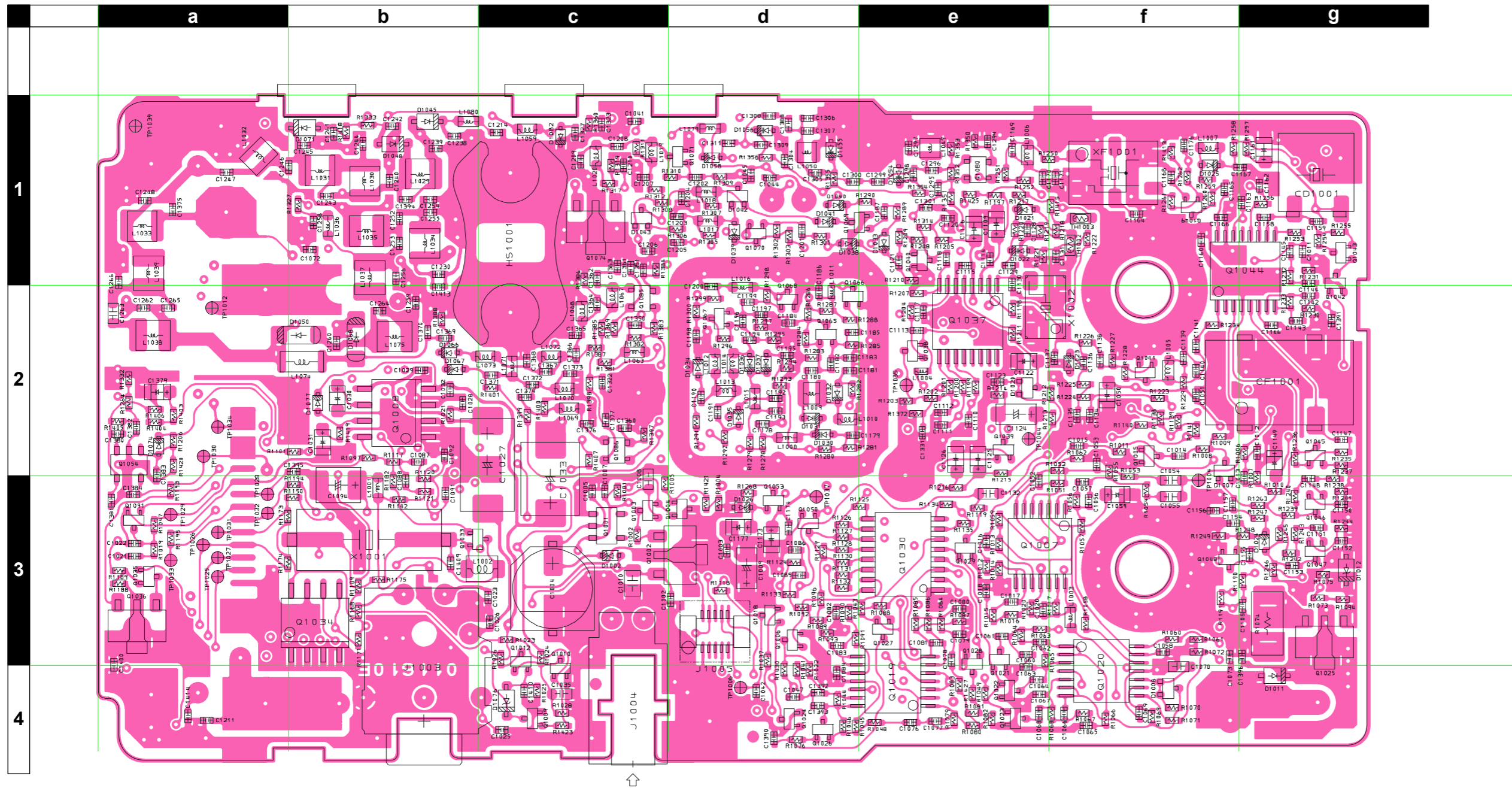
DAP222 (P) (D1027)

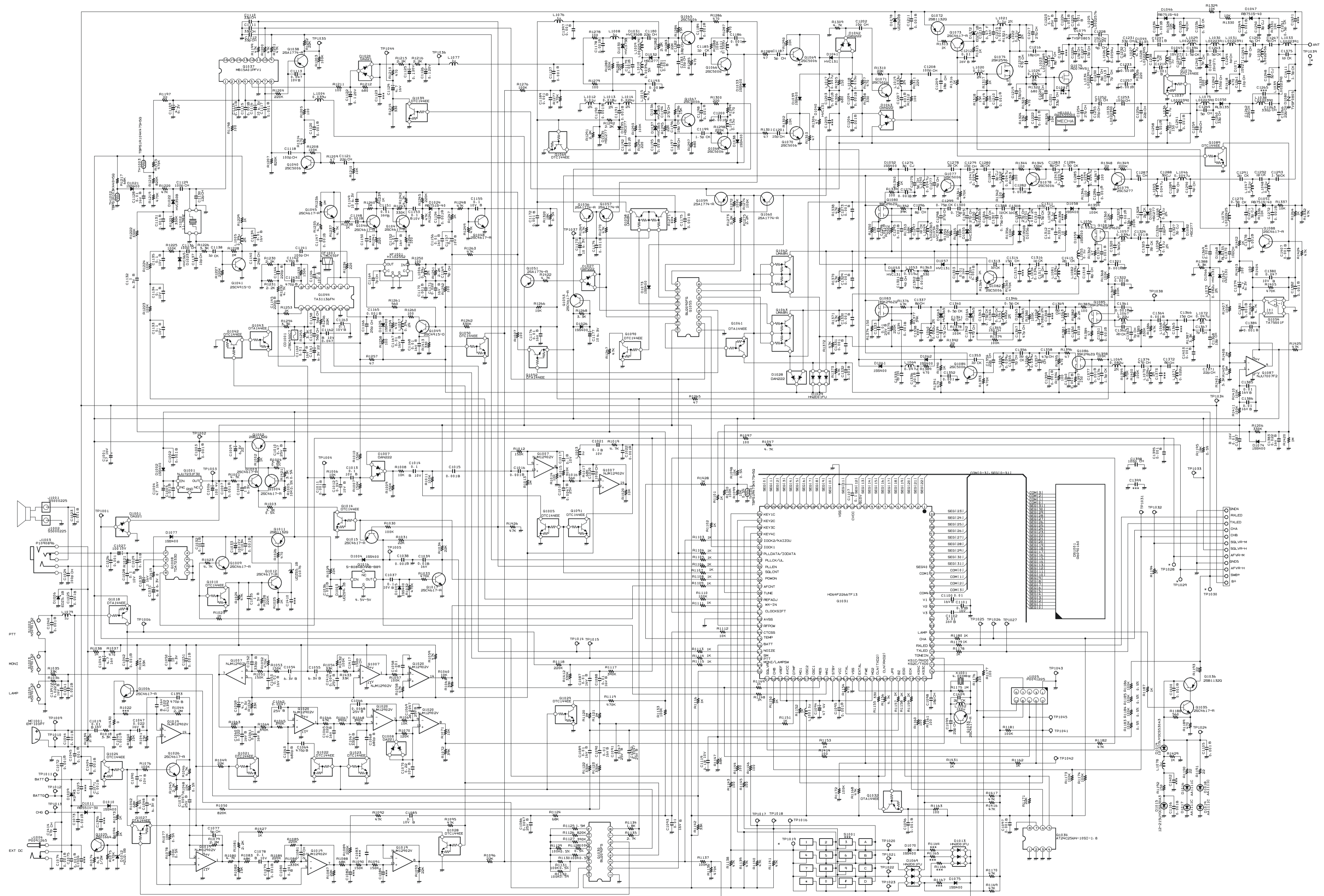


HN2D01FU (A1) (D1013, 1029, 1069)

# MAIN Unit (Lot. 6 ~ 9)

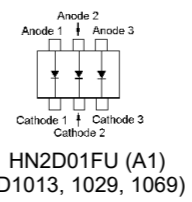
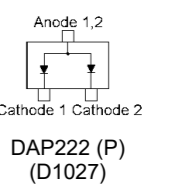
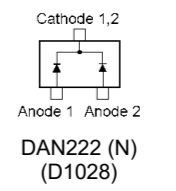
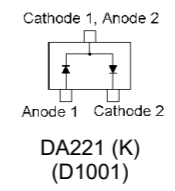
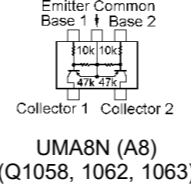
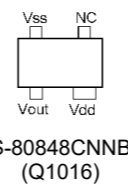
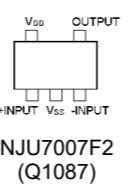
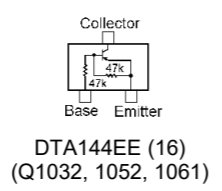
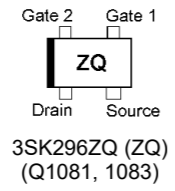
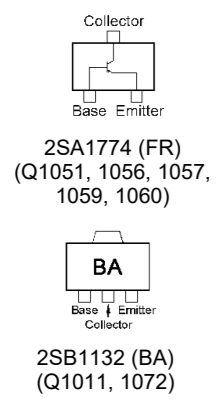
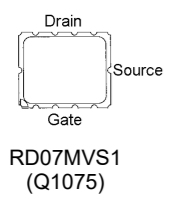
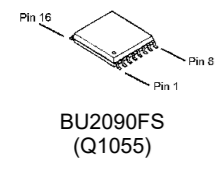
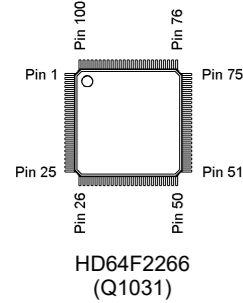
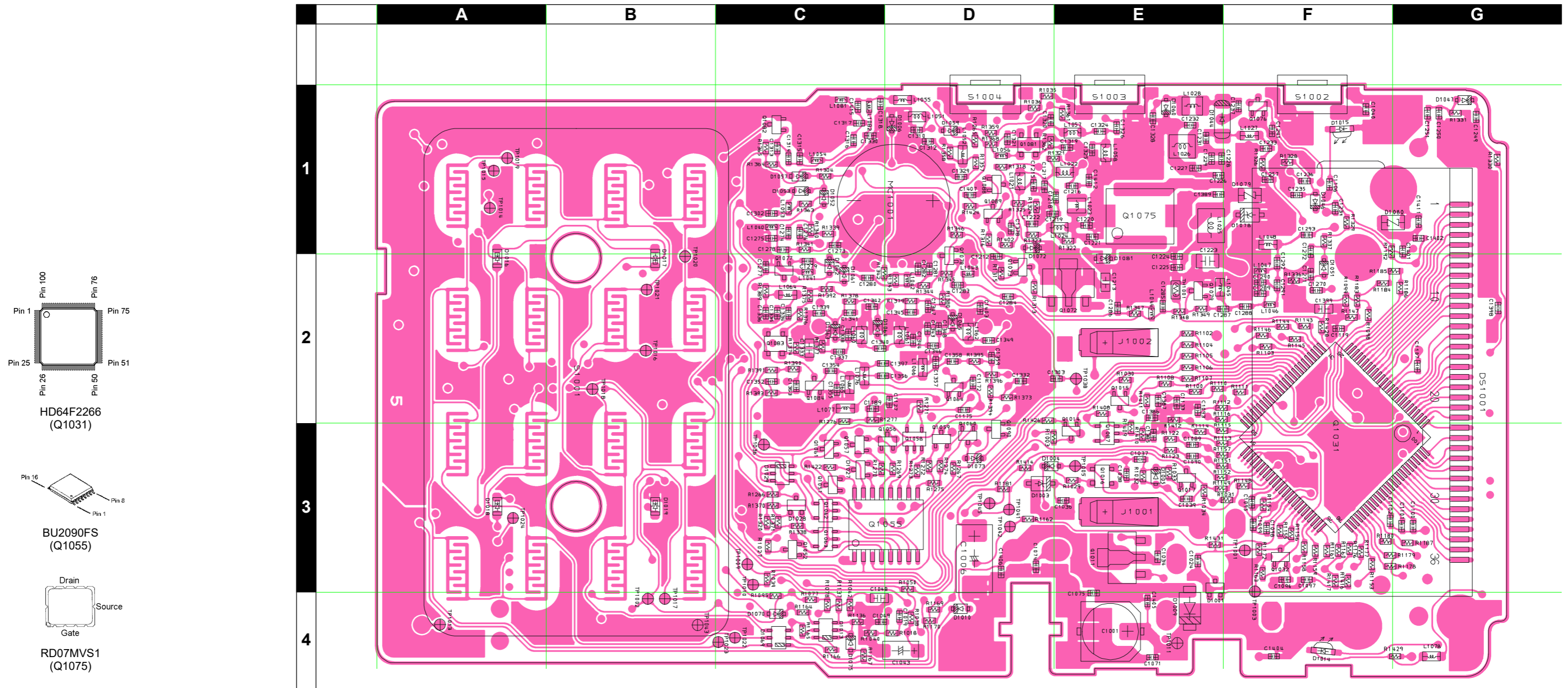
## Parts Layout (Side B)





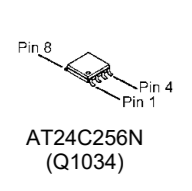
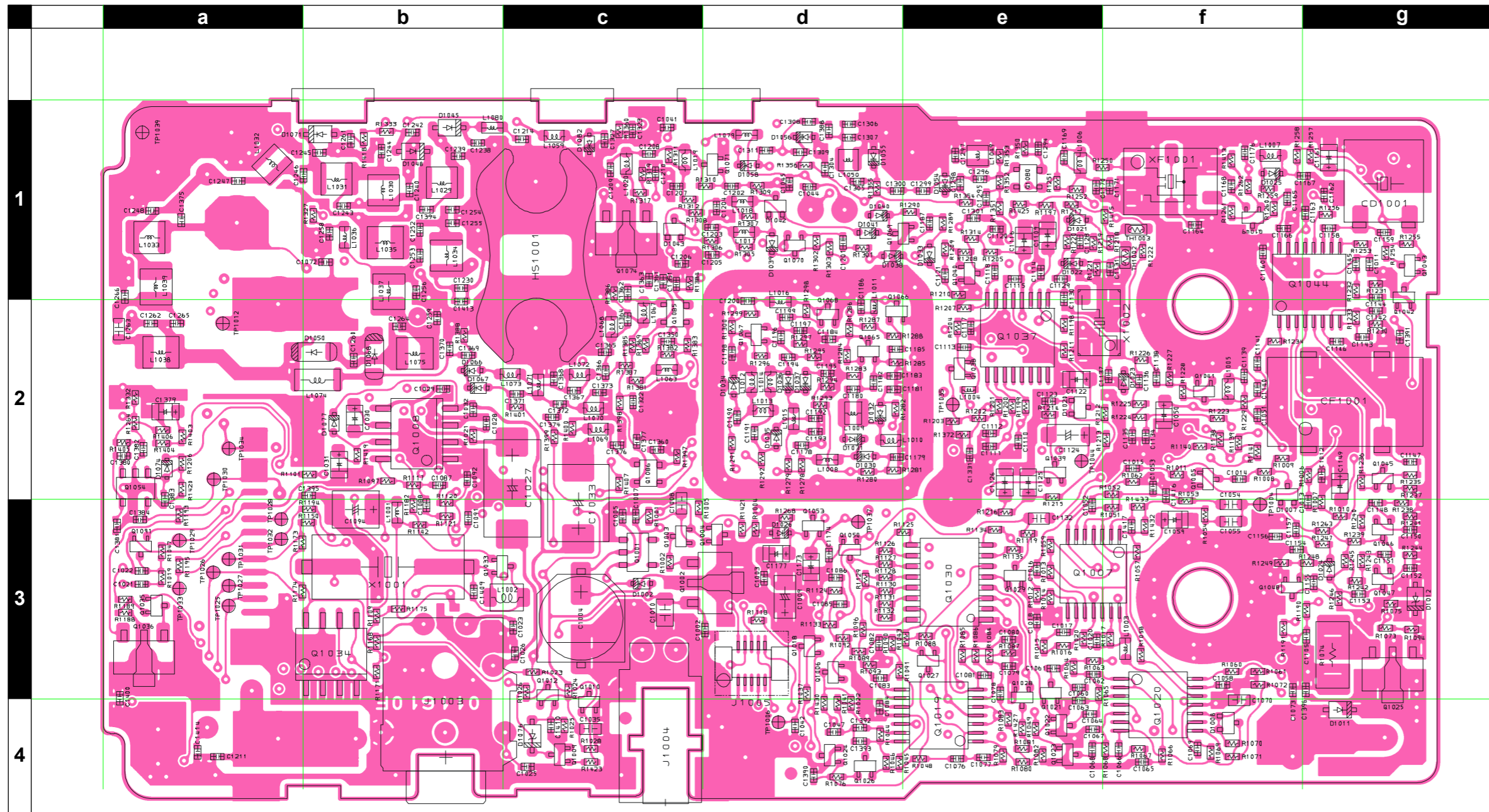
**MAIN Unit (Lot. 10 ~ 11)**

*Note*

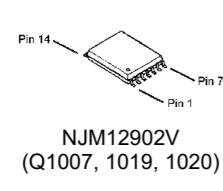


# MAIN Unit (Lot. 10 ~ 11)

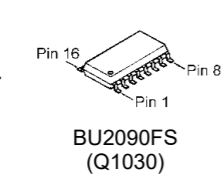
## Parts Layout (Side B)



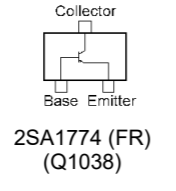
AT24C256N (Q1034)



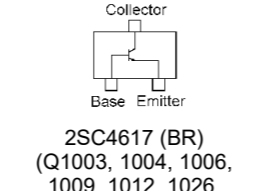
NJM12902V (Q1007, 1019, 1020)



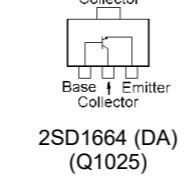
BU2090FS (Q1030)



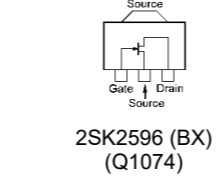
2SA1774 (FR) (Q1038)



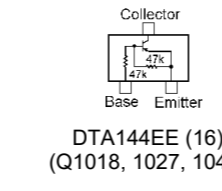
2SC4617 (BR) (Q1003, 1004, 1006, 1009, 1012, 1026, 1033, 1035, 1045, 1046, 1047, 1048, 1053)



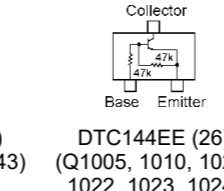
2SD1664 (DA) (Q1025)



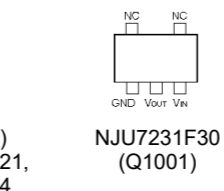
2SK2596 (BX) (Q1074)



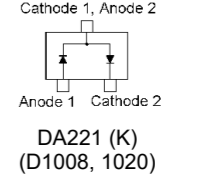
DTA144EE (16) (Q1018, 1027, 1043)



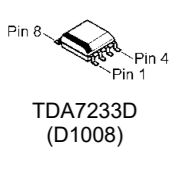
DTC144EE (26) (Q1005, 1010, 1021, 1022, 1023, 1024, 1028, 1029, 1039, 1042, 1050, 1091)



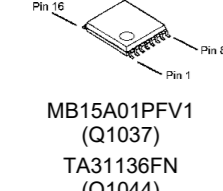
NJU7231F30 (Q1001)



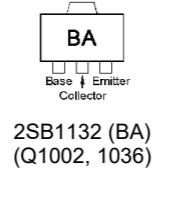
DA221 (K) (D1008, 1020)



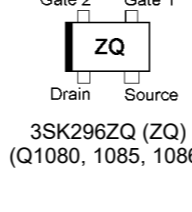
TDA7233D (D1008)



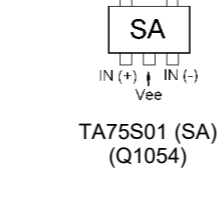
MB15A01PFV1 (Q1037)  
TA31136FN (Q1044)



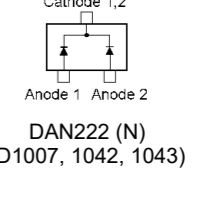
2SB1132 (BA) (Q1002, 1036)



3SK296ZQ (ZQ) (Q1080, 1085, 1086)

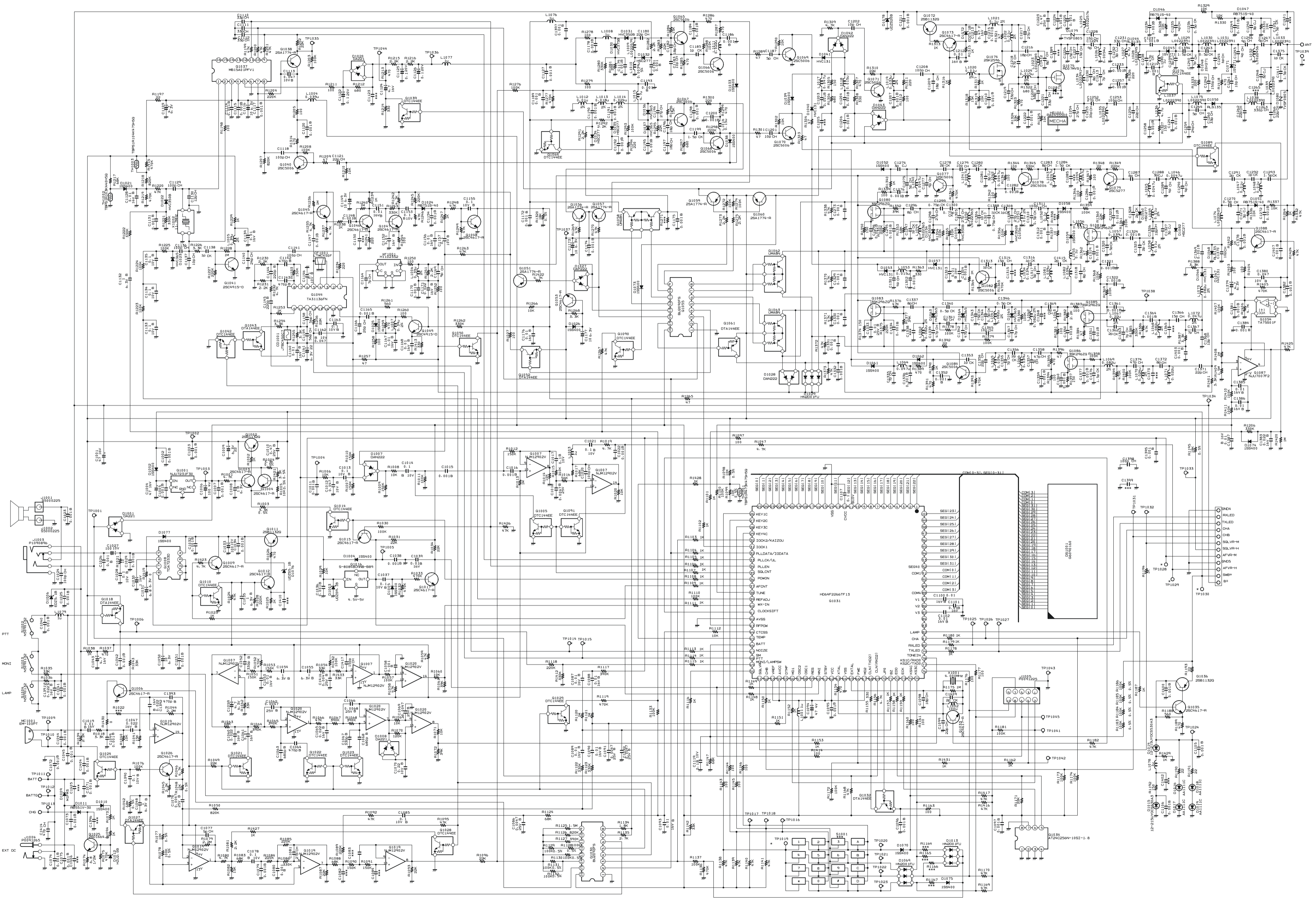


TA75S01 (SA) (Q1054)



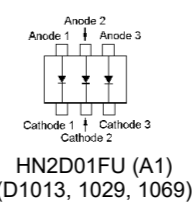
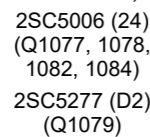
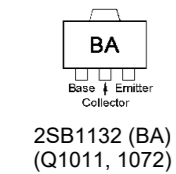
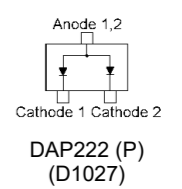
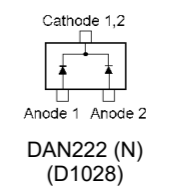
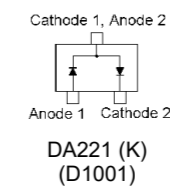
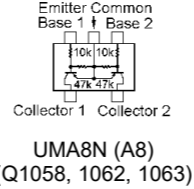
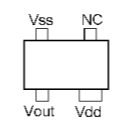
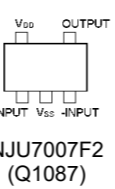
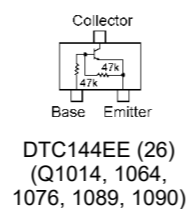
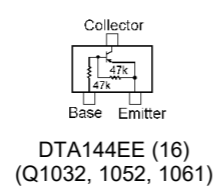
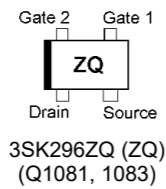
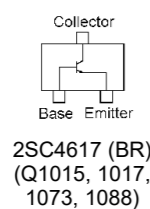
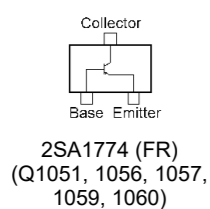
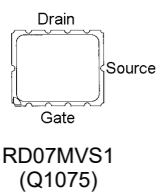
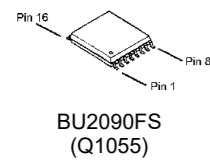
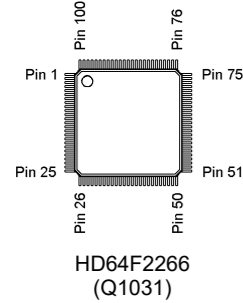
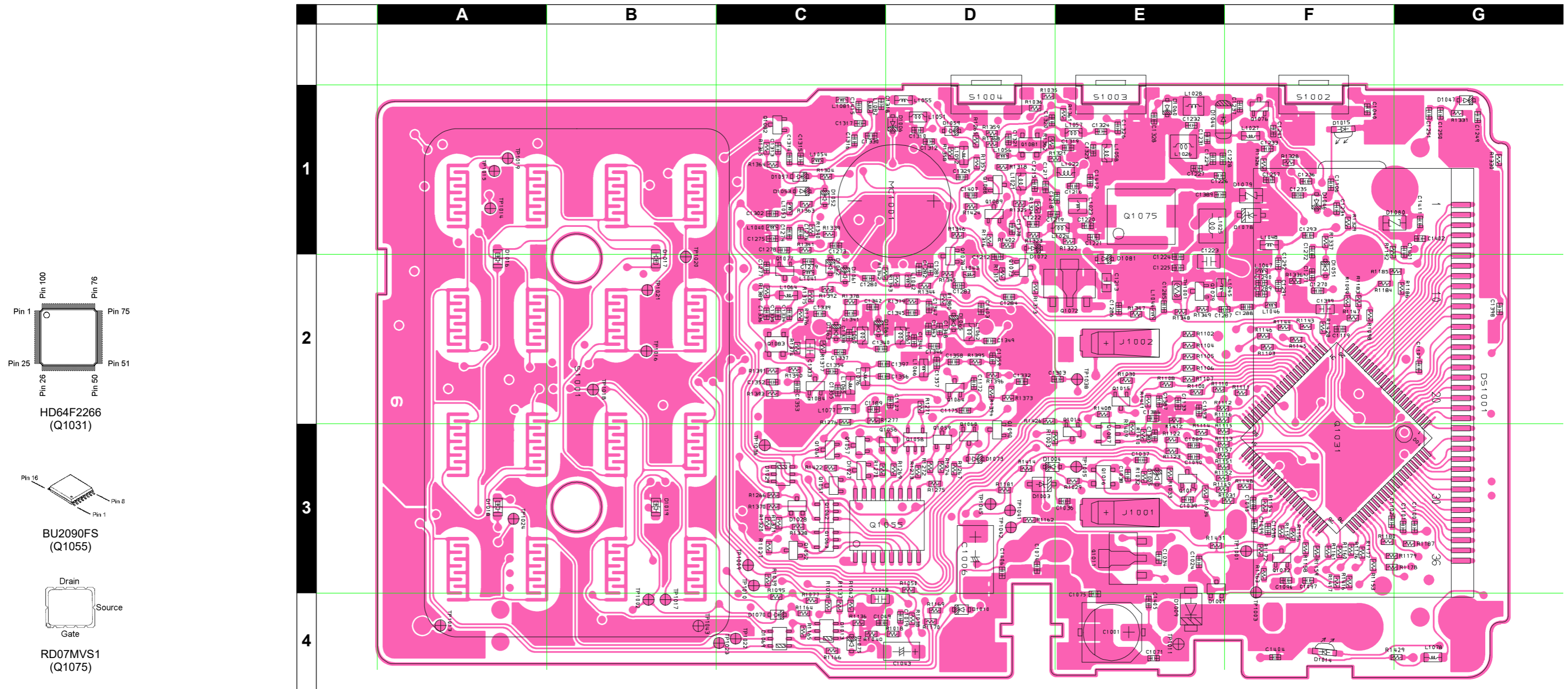
DAN222 (N) (D1007, 1042, 1043)





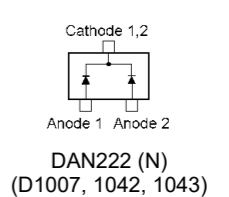
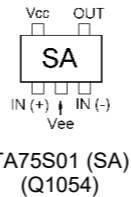
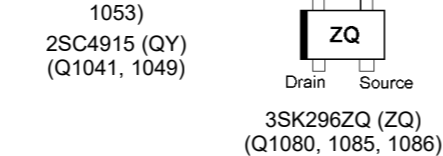
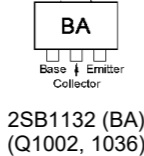
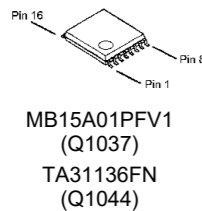
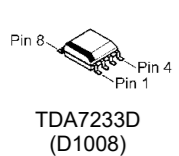
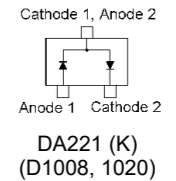
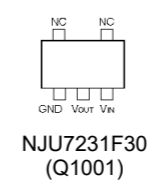
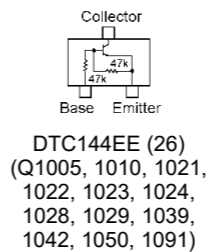
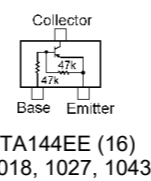
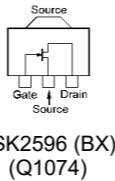
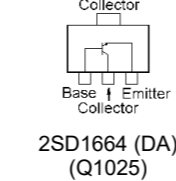
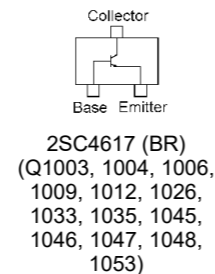
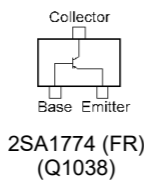
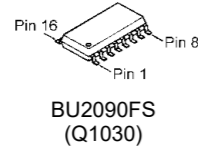
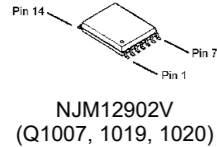
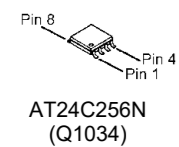
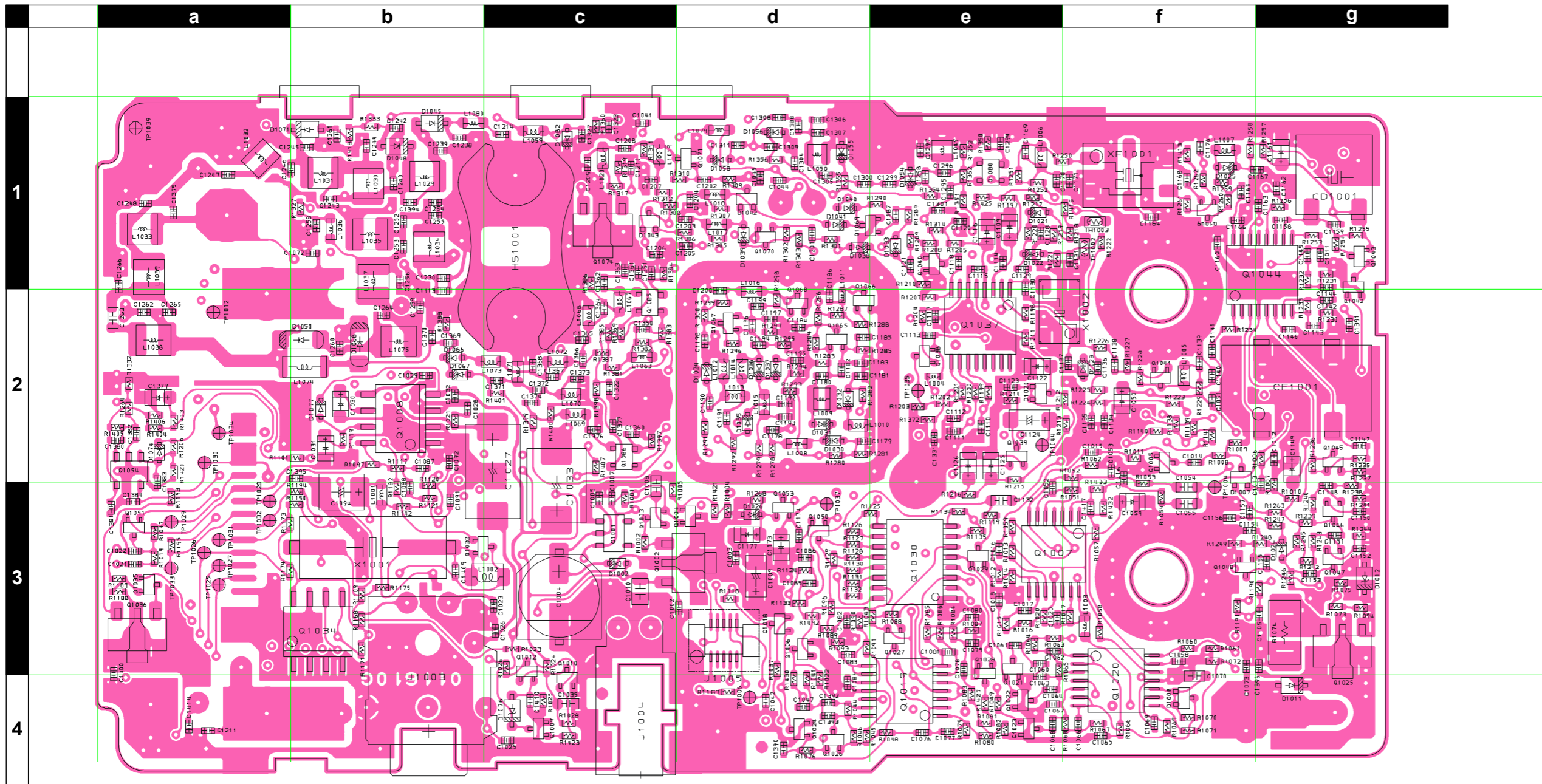
**MAIN Unit (Lot. 12 ~ 129)**

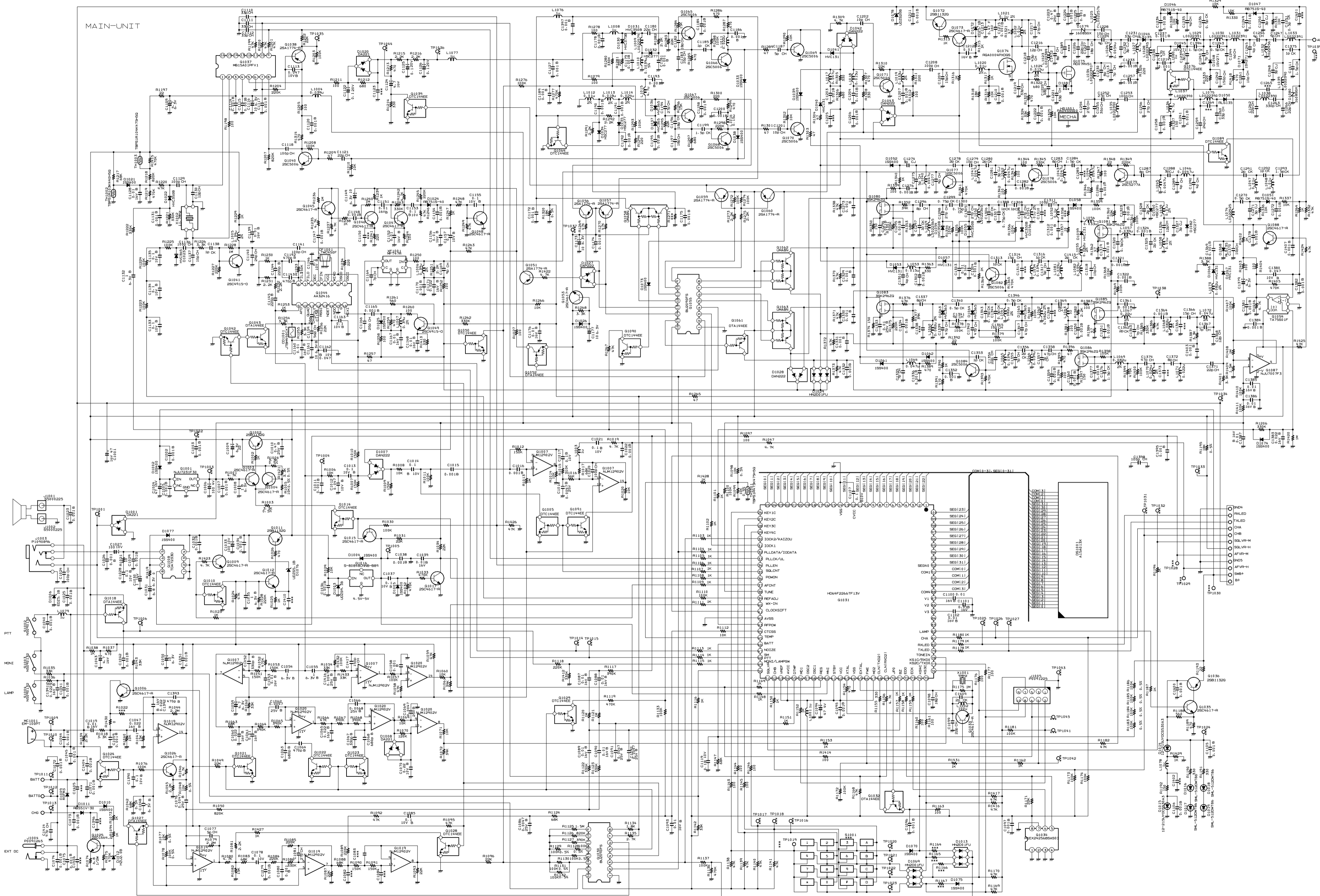
*Note*



# MAIN Unit (Lot. 12 ~ 129)

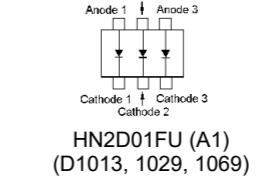
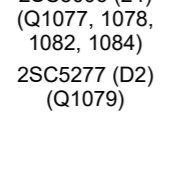
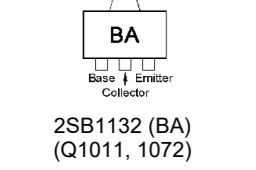
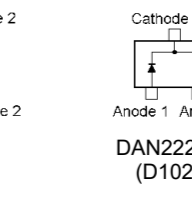
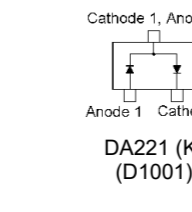
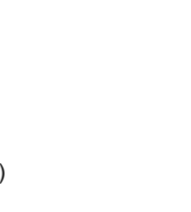
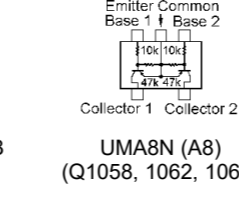
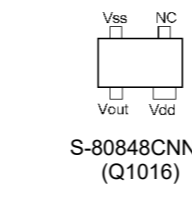
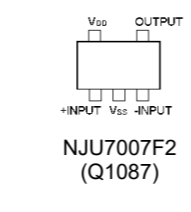
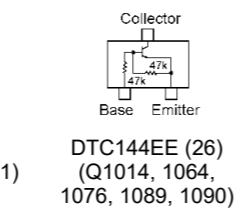
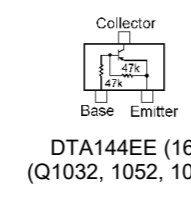
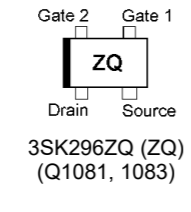
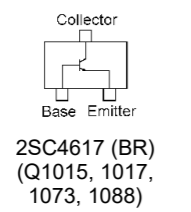
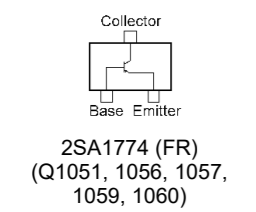
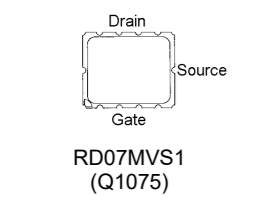
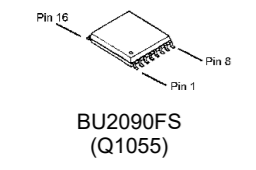
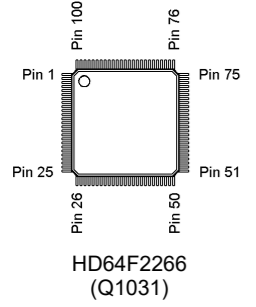
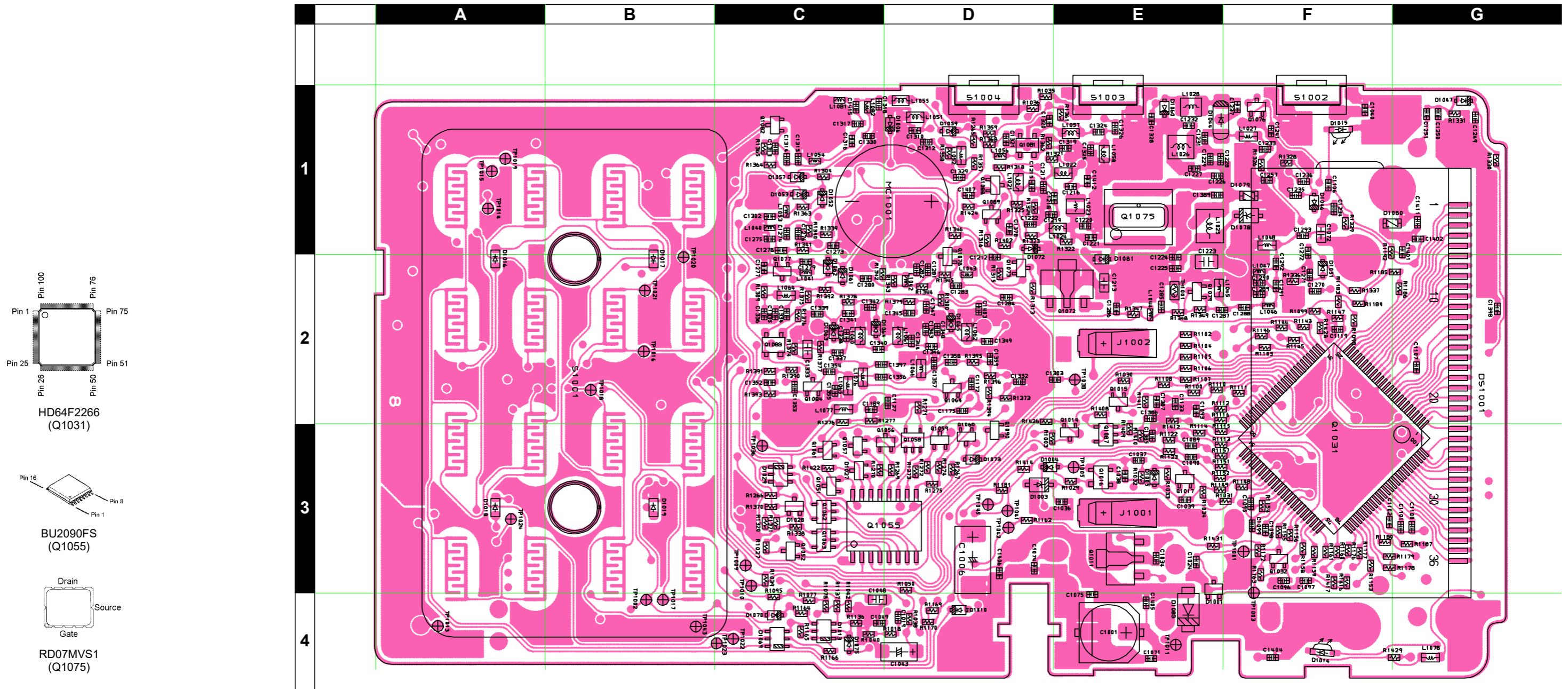
## Parts Layout (Side B)





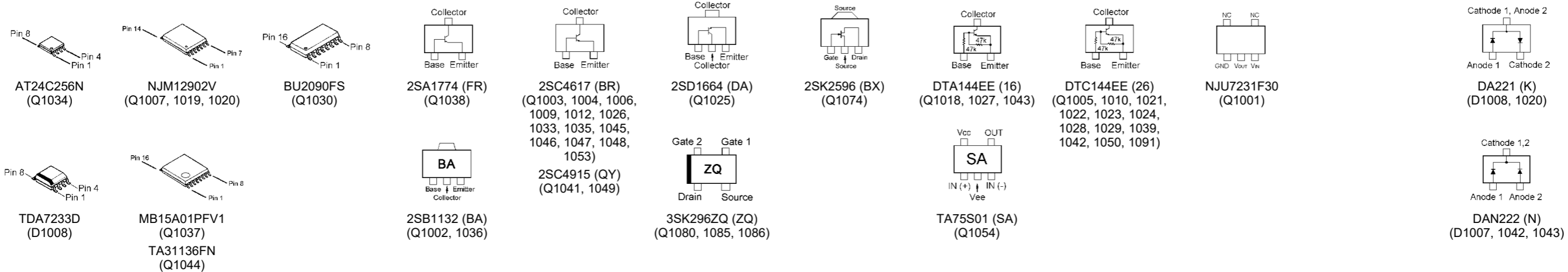
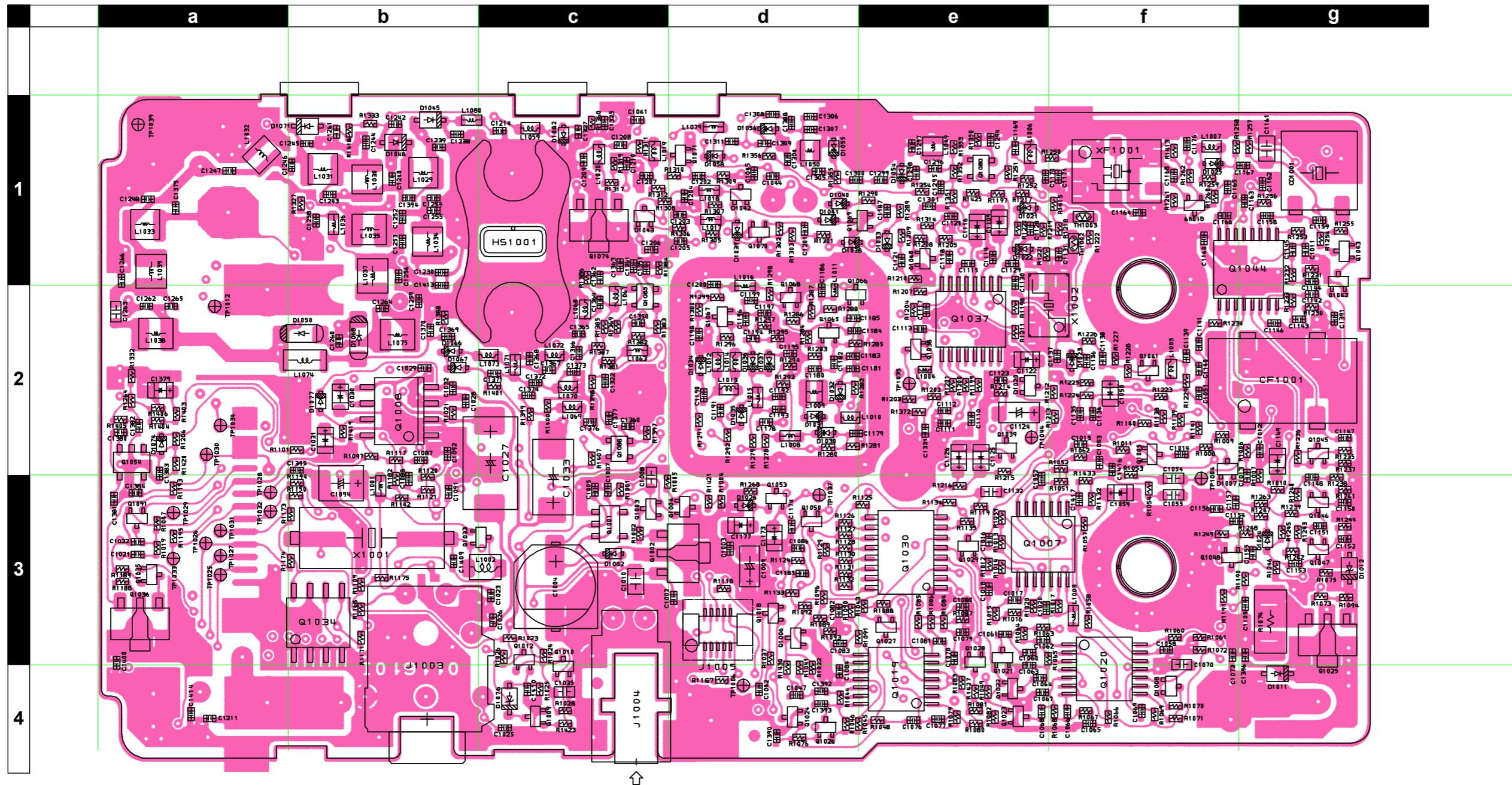
*MAIN Unit (Lot. 130 ~)*

*Note*



# MAIN Unit (Lot. 130 ~)

## Parts Layout (Side 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 (W/ VR Unit) |          |      |      |                    | CP7965002 | USA A2U |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965003 | EXP A1  |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965004 | EXP A2  |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965005 | EXP A3  |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965006 | EU B1   |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965007 | EU B2   |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965008 | EXP B3  |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965009 | EU C1   |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965010 | EU C2   |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965011 | EXP C3  |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965012 | EU D1   |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965013 | EU D2   |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965014 | AUS H1  |      |      |         |
|        | PCB with Components (W/ VR Unit) |          |      |      |                    | CP7965015 | AUS H2  |      |      |         |
|        | Printed Circuit Board            |          |      |      |                    | FR011610C |         | 1-   |      |         |
|        |                                  |          |      |      |                    | FR011610D |         | 3-   |      |         |
|        |                                  |          |      |      |                    | FR011610E |         | 6-   |      |         |
|        |                                  |          |      |      |                    | FR011610F |         | 10-  |      |         |
|        |                                  |          |      |      |                    | FR011610G |         | 12-  |      |         |
|        |                                  |          |      |      |                    | FR011610I |         | 130- |      |         |
| C 1001 | AL.ELECTRO.CAP.                  | 47uF     | 16V  |      | ECEV1CA470WR       | K48120013 |         | 1-   | A    | E4      |
| C 1001 | AL.ELECTRO.CAP.                  | 47uF     | 16V  |      | EEE1CA470WR        | K48120025 |         | 33-  | A    | E4      |
| C 1001 | AL.ELECTRO.CAP.                  | 47uF     | 16V  |      | EMVA160ADA470ME55G | K48120036 |         | 130- | A    | E4      |
| C 1002 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | d3      |
| C 1003 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | d3      |
| C 1004 | AL.ELECTRO.CAP.                  | 47uF     | 16V  |      | RV4-16V470MF46-RR2 | K48120019 |         | 1-   | B    | c3      |
| C 1004 | AL.ELECTRO.CAP.                  | 47uF     | 16V  |      | UZS1C470MCL1GB     | K48120031 |         | 130- | B    | c3      |
| C 1005 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | c3      |
| C 1006 | CHIP TA.CAP.                     | 100uF    | 4V   |      | TEESVC0G107M12R    | K78060021 |         | 1-   | A    | D3      |
| C 1007 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | c3      |
| C 1008 | CHIP CAP.                        | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |         | 1-   | B    | c3      |
| C 1009 | CHIP TA.CAP.                     | 22uF     | 6.3V |      | TEESVA0J226M8R     | K78080047 |         | 1-   | B    | d3      |
| C 1010 | CHIP CAP.                        | 0.47uF   | 25V  | B    | GRM21BB11E474KC01L | K22140824 |         | 1-   | B    | c3      |
| C 1011 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | g1      |
| C 1012 | CHIP CAP.                        | 0.047uF  | 10V  | B    | GRM155B11A473KA01D | K22108801 |         | 1-   | B    | g2      |
| C 1013 | CHIP CAP.                        | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |         | 1-   | B    | g3      |
| C 1014 | CHIP CAP.                        | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |         | 1-   | B    | f2      |
| C 1015 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | f2      |
| C 1016 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | e3      |
| C 1017 | CHIP CAP.                        | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |         | 1-   | B    | e3      |
| C 1018 | CHIP CAP.                        | 0.0047uF | 25V  | B    | GRM36B472K25PT     | K22148830 |         | 1-   | B    | e3      |
| C 1018 | CHIP CAP.                        | 0.0047uF | 50V  | B    | GRM155B11H472KA01D | K22178838 |         | 57-  | B    | e3      |
| C 1019 | CHIP CAP.                        | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |         | 1-   | A    | D4      |
| C 1019 | CHIP CAP.                        | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |         | 57-  | A    | D4      |
| C 1020 | CHIP CAP.                        | 100pF    | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |         | 1-   | B    | e3      |
| C 1021 | CHIP CAP.                        | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |         | 1-   | B    | a3      |
| C 1022 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | a3      |
| C 1023 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | c3      |
| C 1024 | CHIP CAP.                        | 100pF    | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |         | 1-   | A    | E3      |
| C 1025 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | c4      |
| C 1026 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | c3      |
| C 1027 | CHIP TA.CAP.                     | 100uF    | 10V  |      | TEESVD1A107M12R    | K78100031 |         | 1-   | B    | c2      |
| C 1028 | CHIP CAP.                        | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |         | 1-   | B    | b2      |
| C 1029 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | b2      |
| C 1030 | CHIP TA.CAP.                     | 1uF      | 16V  |      | TEESVSP1C105M8R    | K78120058 |         | 1-   | B    | b2      |
| C 1030 | CHIP TA.CAP.                     | 1uF      | 16V  |      | TEESVP1C105M8R     | K78120076 |         | 31-  | B    | b2      |
| C 1031 | CHIP TA.CAP.                     | 6.8uF    | 6.3V |      | TEESVP0J685M8R     | K78080054 |         | 1-   | B    | b2      |
| C 1032 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | b2      |
| C 1033 | CHIP TA.CAP.                     | 100uF    | 10V  |      | TEESVD21A107M12R   | K78100049 |         | 1-   | B    | c3      |
| C 1033 | CHIP TA.CAP.                     | 100uF    | 10V  |      | TEESVC1A107M12R    | K78100075 |         | 56-  | B    | c3      |
| C 1034 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | A    | E3      |
| C 1035 | CHIP CAP.                        | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |         | 1-   | B    | c4      |
| C 1036 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | A    | E3      |
| C 1037 | CHIP CAP.                        | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |         | 1-   | A    | E3      |
| C 1038 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | A    | E3      |
| C 1039 | CHIP CAP.                        | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |         | 1-   | A    | E3      |
| C 1039 | CHIP CAP.                        | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |         | 57-  | A    | E3      |
| C 1040 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | A    | F1      |
| C 1041 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | c1      |
| C 1042 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | d4      |
| C 1043 | CHIP TA.CAP.                     | 4.7uF    | 16V  |      | TEESVA1C475M8R     | K78120031 |         | 1-   | A    | D4      |
| C 1044 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | d1      |
| C 1045 | CHIP CAP.                        | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |         | 1-   | B    | d1      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION  | VALUE    | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.     | LOT  | SIDE | LAY ADR |
|--------|--------------|----------|------|------|--------------------|-----------|-----------|------|------|---------|
| C 1047 | CHIP CAP.    | 0.022uF  | 16V  | B    | GRM155B11C223KA01D | K22128806 |           | 1-   | B    | d4      |
| C 1048 | CHIP CAP.    | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |           | 1-   | A    | C4      |
| C 1049 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | A    | C4      |
| C 1050 | CHIP TA.CAP. | 10uF     | 6.3V |      | TEESVP0J106M8R     | K78080055 |           | 1-   | B    | f2      |
| C 1051 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | B    | f2      |
| C 1052 | CHIP CAP.    | 330pF    | 50V  | B    | GRM155B11H331KA01D | K22178803 |           | 1-   | B    | e3      |
| C 1053 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | B    | f2      |
| C 1053 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | B    | f2      |
| C 1054 | CHIP CAP.    | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |           | 1-   | B    | f3      |
| C 1055 | CHIP CAP.    | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |           | 1-   | B    | f3      |
| C 1056 | CHIP CAP.    | 0.0068uF | 25V  | B    | GRM155B11E682KA01D | K22148803 |           | 1-2  |      |         |
| C 1056 | CHIP CAP.    | 0.0068uF | 25V  | B    | GRM155B11E682KA01D | K22148803 | AUSTRALIA | 3    |      |         |
| C 1056 | CHIP CAP.    | 0.0068uF | 25V  | B    | GRM155B11E682KA01D | K22148803 | EUROPE    | 3    |      |         |
| C 1056 | CHIP CAP.    | 0.0068uF | 25V  | B    | GRM155B11E682KA01D | K22148803 | EXPORT    | 3    |      |         |
| C 1056 | CHIP CAP.    | 0.0068uF | 25V  | B    | GRM155B11E682KA01D | K22148803 | USA       | 3    |      |         |
| C 1057 | CHIP CAP.    | 0.0068uF | 25V  | B    | GRM155B11E682KA01D | K22148803 |           | 1-3  |      |         |
| C 1058 | CHIP CAP.    | 100pF    | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |           | 1-   | B    | f3      |
| C 1058 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 4-   | B    | f3      |
| C 1059 | CHIP TA.CAP. | 4.7uF    | 6.3V |      | TEESVP0J475M8R     | K78080053 |           | 1-   | B    | f3      |
| C 1060 | CHIP CAP.    | 0.022uF  | 16V  | B    | GRM155B11C223KA01D | K22128806 |           | 1-   | B    | e3      |
| C 1061 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | B    | e3      |
| C 1061 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | B    | e3      |
| C 1062 | CHIP CAP.    | 0.0047uF | 25V  | B    | GRM36B472K25PT     | K22148830 |           | 1-   | B    | e3      |
| C 1062 | CHIP CAP.    | 0.0047uF | 50V  | B    | GRM155B11H472KA01D | K22178838 |           | 57-  | B    | e3      |
| C 1063 | CHIP CAP.    | 680pF    | 50V  | B    | GRM155B11H681KA01D | K22178807 |           | 1-   | B    | e4      |
| C 1064 | CHIP CAP.    | 470pF    | 50V  | B    | GRM155B11H471KA01D | K22178805 |           | 1-   | B    | e4      |
| C 1065 | CHIP CAP.    | 0.022uF  | 16V  | B    | GRM155B11C223KA01D | K22128806 |           | 1-   | B    | f4      |
| C 1066 | CHIP CAP.    | 0.0068uF | 25V  | B    | GRM155B11E682KA01D | K22148803 |           | 1-   | B    | f4      |
| C 1067 | CHIP CAP.    | 330pF    | 50V  | B    | GRM155B11H331KA01D | K22178803 |           | 1-   | B    | e4      |
| C 1068 | CHIP CAP.    | 680pF    | 50V  | B    | GRM155B11H681KA01D | K22178807 |           | 1-   | B    | e4      |
| C 1069 | CHIP CAP.    | 0.0047uF | 25V  | B    | GRM36B472K25PT     | K22148830 |           | 1-   | B    | f4      |
| C 1069 | CHIP CAP.    | 0.0047uF | 50V  | B    | GRM155B11H472KA01D | K22178838 |           | 57-  | B    | f4      |
| C 1070 | CHIP CAP.    | 0.22uF   | 10V  | B    | GRM188B11A224KA01D | K22104801 |           | 1-   | B    | f4      |
| C 1071 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | A    | E4      |
| C 1072 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | A    | F1      |
| C 1072 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174821 |           | 130- | A    | F1      |
| C 1073 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | B    | f3      |
| C 1074 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | A    | D3      |
| C 1075 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | A    | E4      |
| C 1076 | CHIP CAP.    | 0.0047uF | 25V  | B    | GRM36B472K25PT     | K22148830 |           | 1-   | B    | e4      |
| C 1076 | CHIP CAP.    | 0.0047uF | 50V  | B    | GRM155B11H472KA01D | K22178838 |           | 57-  | B    | e4      |
| C 1077 | CHIP CAP.    | 5pF      | 50V  | CH   | GRM1552C1H5R0BZ01D | K22178292 |           | 1-   | B    | e4      |
| C 1078 | CHIP CAP.    | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |           | 1-   | B    | e3      |
| C 1079 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | B    | e3      |
| C 1080 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | B    | e3      |
| C 1081 | CHIP CAP.    | 27pF     | 50V  | CH   | GRM1552C1H270JZ01D | K22178222 |           | 1-   | B    | e3      |
| C 1085 | CHIP CAP.    | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |           | 1-   | B    | d3      |
| C 1086 | CHIP CAP.    | 0.0047uF | 25V  | B    | GRM36B472K25PT     | K22148830 |           | 1-   | B    | d3      |
| C 1086 | CHIP CAP.    | 0.0047uF | 50V  | B    | GRM155B11H472KA01D | K22178838 |           | 57-  | B    | d3      |
| C 1087 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | B    | b2      |
| C 1087 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | B    | b2      |
| C 1088 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | B    | b3      |
| C 1088 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | B    | b3      |
| C 1089 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | A    | E3      |
| C 1089 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | A    | E3      |
| C 1090 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | A    | E3      |
| C 1090 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | A    | E3      |
| C 1091 | CHIP CAP.    | 0.0047uF | 25V  | B    | GRM36B472K25PT     | K22148830 |           | 1-   | B    | b3      |
| C 1091 | CHIP CAP.    | 0.0047uF | 50V  | B    | GRM155B11H472KA01D | K22178838 |           | 57-  | B    | b3      |
| C 1092 | CHIP CAP.    | 0.0047uF | 25V  | B    | GRM36B472K25PT     | K22148830 |           | 1-   | B    | b2      |
| C 1092 | CHIP CAP.    | 0.0047uF | 50V  | B    | GRM155B11H472KA01D | K22178838 |           | 57-  | B    | b2      |
| C 1093 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | A    | E2      |
| C 1093 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | A    | E2      |
| C 1094 | CHIP TA.CAP. | 47uF     | 4V   |      | TEESVB20G476M8R    | K78060020 |           | 1-   | B    | b3      |
| C 1095 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | A    | F3      |
| C 1096 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | A    | F3      |
| C 1097 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |           | 1-   | A    | F3      |
| C 1098 | CHIP CAP.    | 18pF     | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |           | 1-   | A    | F3      |
| C 1099 | CHIP CAP.    | 22pF     | 50V  | CH   | GRM1552C1H220JZ01D | K22178220 |           | 1-   | A    | F3      |
| C 1100 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | A    | G3      |
| C 1100 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | A    | G3      |
| C 1101 | CHIP CAP.    | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |           | 1-   | A    | G3      |
| C 1101 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |           | 57-  | A    | G3      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION  | VALUE   | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|--------------|---------|------|------|--------------------|-----------|-------|-----|------|---------|
| C 1102 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | A    | F3      |
| C 1102 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | A    | F3      |
| C 1105 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | g3      |
| C 1106 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | F1      |
| C 1107 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | G2      |
| C 1109 | CHIP TA.CAP. | 4.7uF   | 6.3V |      | TEESVP0J475M8R     | K78080053 |       | 1-  | B    | e1      |
| C 1110 | CHIP CAP.    | 33pF    | 50V  | CH   | GRM1552C1H330JZ01D | K22178224 |       | 1-  | B    | e2      |
| C 1111 | CHIP CAP.    | 33pF    | 50V  | CH   | GRM1552C1H330JZ01D | K22178224 |       | 1-  | B    | e2      |
| C 1112 | CHIP CAP.    | 33pF    | 50V  | CH   | GRM1552C1H330JZ01D | K22178224 |       | 1-  | B    | e2      |
| C 1113 | CHIP CAP.    | 0.047uF | 10V  | B    | GRM155B11A473KA01D | K22108801 |       | 1-  | B    | e2      |
| C 1114 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 1115 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 1116 | CHIP TA.CAP. | 10uF    | 6.3V |      | TEESVP0J106M8R     | K78080055 |       | 1-  | B    | e1      |
| C 1117 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e2      |
| C 1118 | CHIP CAP.    | 100pF   | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |       | 1-  | B    | e1      |
| C 1119 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | F2      |
| C 1120 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 1121 | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JZ01D | K22178220 |       | 1-  | B    | e1      |
| C 1122 | CHIP TA.CAP. | 0.1uF   | 20V  |      | SKF-1D104M-RP      | K78130049 |       | 1-  | B    | e2      |
| C 1124 | CHIP TA.CAP. | 4.7uF   | 16V  |      | TEESVA1C475M8R     | K78120031 |       | 1-  | B    | e2      |
| C 1125 | CHIP TA.CAP. | 0.1uF   | 20V  |      | SKF-1D104M-RP      | K78130049 |       | 1-  | B    | e2      |
| C 1126 | CHIP TA.CAP. | 0.1uF   | 20V  |      | SKF-1D104M-RP      | K78130049 |       | 1-  | B    | e2      |
| C 1127 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | D2      |
| C 1128 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | B    | e1      |
| C 1128 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | B    | e1      |
| C 1129 | CHIP CAP.    | 100pF   | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |       | 1-  | B    | e1      |
| C 1130 | CHIP CAP.    | 12pF    | 50V  | CH   | GRM1552C1H120JZ01D | K22178214 |       | 1-  | B    | e1      |
| C 1131 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | f1      |
| C 1132 | CHIP CAP.    | 1uF     | 6.3V | B    | GRM188B10J105KA01D | K22084801 |       | 1-  | B    | e3      |
| C 1133 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | E2      |
| C 1134 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | f2      |
| C 1135 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | f2      |
| C 1136 | CHIP CAP.    | 100pF   | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |       | 1-  | B    | f2      |
| C 1137 | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100BZ01D | K22178297 |       | 1-  | B    | f2      |
| C 1138 | CHIP CAP.    | 1pF     | 50V  | CK   | GRM1554C1H1R0BZ01D | K22178287 |       | 1-  | B    | f2      |
| C 1139 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | B    | f2      |
| C 1139 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | B    | f2      |
| C 1140 | CHIP CAP.    | 24pF    | 50V  | CH   | GRM1552C1H240JZ01D | K22178221 |       | 1-  | B    | f2      |
| C 1141 | CHIP CAP.    | 100pF   | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |       | 1-  | B    | f2      |
| C 1142 | CHIP CAP.    | 470pF   | 50V  | B    | GRM155B11H471KA01D | K22178805 |       | 1-  | B    | g2      |
| C 1143 | CHIP CAP.    | 470pF   | 50V  | B    | GRM155B11H471KA01D | K22178805 |       | 1-  | B    | g2      |
| C 1144 | CHIP CAP.    | 220pF   | 50V  | B    | GRM155B11H221KA01D | K22178801 |       | 1-  | B    | g1      |
| C 1145 | CHIP CAP.    | 220pF   | 50V  | B    | GRM155B11H221KA01D | K22178801 |       | 1-  | B    | g1      |
| C 1146 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | g2      |
| C 1147 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | g2      |
| C 1148 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | g3      |
| C 1149 | CHIP TA.CAP. | 10uF    | 6.3V |      | TEESVP0J106M8R     | K78080055 |       | 1-  | B    | g2      |
| C 1151 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | B    | g3      |
| C 1151 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | B    | g3      |
| C 1152 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | B    | g3      |
| C 1152 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | B    | g3      |
| C 1153 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | g3      |
| C 1154 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | f3      |
| C 1155 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | g3      |
| C 1156 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | B    | f3      |
| C 1156 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | B    | f3      |
| C 1157 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | f3      |
| C 1158 | CHIP CAP.    | 56pF    | 50V  | CH   | GRM1552C1H560JD01D | K22178230 |       | 1-  | B    | g1      |
| C 1159 | CHIP CAP.    | 56pF    | 50V  | CH   | GRM1552C1H560JD01D | K22178230 |       | 1-  | B    | g1      |
| C 1160 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | B    | f1      |
| C 1160 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | B    | f1      |
| C 1161 | CHIP TA.CAP. | 10uF    | 6.3V |      | TEESVP0J106M8R     | K78080055 |       | 1-  | B    | g1      |
| C 1161 | CHIP TA.CAP. | 22uF    | 6.3V |      | TEESVP0J226M-8R    | K78080082 |       | 4-  | B    | g1      |
| C 1161 | CHIP CAP.    | 10uF    | 6.3V | B    | JMK212BJ106KG-T    | K22080802 |       | 10- | B    | g1      |
| C 1162 | CHIP CAP.    | 0.047uF | 10V  | B    | GRM155B11A473KA01D | K22108801 |       | 1-  | B    | g1      |
| C 1163 | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | g1      |
| C 1164 | CHIP CAP.    | 7pF     | 50V  | CH   | GRM1552C1H7R0BZ01D | K22178294 |       | 1-  | B    | f1      |
| C 1165 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | f1      |
| C 1166 | CHIP CAP.    | 20pF    | 50V  | CH   | GRM1552C1H200JZ01D | K22178219 |       | 1-  | B    | f1      |
| C 1167 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | B    | g1      |
| C 1167 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | B    | g1      |
| C 1168 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-  | B    | f1      |
| C 1168 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57- | B    | f1      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION  | VALUE   | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|--------------|---------|------|------|--------------------|-----------|-------|------|------|---------|
| C 1169 | CHIP CAP.    | 9pF     | 50V  | CH   | GRM1552C1H9R0BZ01D | K22178296 |       | 1-   | B    | e1      |
| C 1170 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | e1      |
| C 1171 | CHIP CAP.    | 0.022uF | 16V  | B    | GRM155B11C223KA01D | K22128806 |       | 1-   | B    | f1      |
| C 1172 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D2      |
| C 1173 | CHIP TA.CAP. | 10uF    | 6.3V |      | TEESVP0J106M8R     | K78080055 |       | 1-   | B    | d3      |
| C 1174 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d3      |
| C 1175 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D2      |
| C 1176 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-   | B    | f1      |
| C 1176 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57-  | B    | f1      |
| C 1177 | CHIP TA.CAP. | 10uF    | 6.3V |      | TEESVP0J106M8R     | K78080055 |       | 1-   | B    | d3      |
| C 1178 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1179 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1180 | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JZ01D | K22178220 |       | 1-   | B    | d2      |
| C 1181 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1182 | CHIP CAP.    | 18pF    | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |       | 1-   | B    | d2      |
| C 1183 | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100BZ01D | K22178297 |       | 1-   | B    | d2      |
| C 1183 | CHIP CAP.    | 9pF     | 50V  | CH   | GRM1552C1H9R0BZ01D | K22178296 |       | 130- | B    | d2      |
| C 1184 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1185 | CHIP CAP.    | 1pF     | 50V  | CK   | GRM1554C1H1R0BZ01D | K22178287 |       | 1-   | B    | d2      |
| C 1186 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1187 | CHIP CAP.    | 5pF     | 50V  | CH   | GRM1552C1H5R0BZ01D | K22178292 |       | 1-   | B    | e1      |
| C 1189 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | C2      |
| C 1190 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1191 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1192 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1193 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1194 | CHIP CAP.    | 27pF    | 50V  | CH   | GRM1552C1H270JZ01D | K22178222 |       | 1-   | B    | d2      |
| C 1195 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1196 | CHIP CAP.    | 18pF    | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |       | 1-   | B    | d2      |
| C 1197 | CHIP CAP.    | 18pF    | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |       | 1-   | B    | d2      |
| C 1198 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1199 | CHIP CAP.    | 1.5pF   | 50V  | CK   | GRM1554C1H1R5BZ01D | K22178288 |       | 1-   | B    | d2      |
| C 1200 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d2      |
| C 1201 | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100BZ01D | K22178297 |       | 1-   | B    | d1      |
| C 1202 | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100BZ01D | K22178297 |       | 1-   | B    | d1      |
| C 1203 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d1      |
| C 1204 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d1      |
| C 1206 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c1      |
| C 1207 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c1      |
| C 1208 | CHIP CAP.    | 100pF   | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |       | 1-   | B    | c1      |
| C 1209 | CHIP CAP.    | 18pF    | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |       | 1-   | B    | c1      |
| C 1209 | CHIP CAP.    | 15pF    | 50V  | CH   | GRM1552C1H150JZ01D | K22178216 |       | 130- | B    | c1      |
| C 1210 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c1      |
| C 1211 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | a4      |
| C 1212 | CHIP CAP.    | 0.01uF  | 16V  | B    | GRM36B103K16PT     | K22128804 |       | 1-   | A    | D2      |
| C 1212 | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 57-  | A    | D2      |
| C 1213 | CHIP CAP.    | 0.47uF  | 16V  | F    | ECJ1VF1C474Z       | K22125001 |       | 1-   | A    | E2      |
| C 1213 | CHIP CAP.    | 0.47uF  | 16V  | F    | GRM188F11C474ZA01D | K22125002 |       | 116- | A    | E2      |
| C 1213 | CHIP CAP.    | 0.47uF  | 16V  | F    | GRM188F11C474ZA01D | K22125002 |       | 130- | A    | E2      |
| C 1214 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c1      |
| C 1215 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D1      |
| C 1216 | CHIP CAP.    | 18pF    | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |       | 1-   | A    | E1      |
| C 1216 | CHIP CAP.    | 12pF    | 50V  | CH   | GRM1552C1H120JZ01D | K22178214 |       | 130- | A    | E1      |
| C 1217 | CHIP CAP.    | 27pF    | 50V  | CH   | GRM1552C1H270JZ01D | K22178222 |       | 1-   | A    | D1      |
| C 1218 | CHIP CAP.    | 47pF    | 50V  | CH   | GRM1552C1H470JZ01D | K22178228 |       | 1-   | A    | E1      |
| C 1218 | CHIP CAP.    | 43pF    | 50V  | CH   | GRM1552C1H430JD01D | K22178227 |       | 98-  | A    | E1      |
| C 1219 | CHIP CAP.    | 33pF    | 50V  | CH   | GRM1552C1H330JZ01D | K22178224 |       | 1-   | A    | D1      |
| C 1220 | CHIP CAP.    | 68pF    | 50V  | CH   | GRM1552C1H680JZ01D | K22178232 |       | 1-   | A    | E1      |
| C 1221 | CHIP CAP.    | 33pF    | 50V  | CH   | GRM1552C1H330JZ01D | K22178224 |       | 1-   | A    | E1      |
| C 1221 | CHIP CAP.    | 39pF    | 50V  | CH   | GRM1552C1H390JZ01D | K22178226 |       | 134- | A    | E1      |
| C 1222 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D1      |
| C 1223 | CHIP CAP.    | 0.47uF  | 25V  | B    | GRM21BB11E474KC01L | K22140824 |       | 1-   | A    | E2      |
| C 1224 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | E2      |
| C 1225 | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | E2      |
| C 1226 | CHIP CAP.    | 15pF    | 50V  | CH   | GRM1552C1H150JZ01D | K22178216 |       | 1-   | A    | E1      |
| C 1226 | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JZ01D | K22178220 |       | 98-  | A    | E1      |
| C 1227 | CHIP CAP.    | 15pF    | 50V  | CH   | GRM1552C1H150JZ01D | K22178216 |       | 1-   | A    | E1      |
| C 1227 | CHIP CAP.    | 18pF    | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |       | 98-  | A    | E1      |
| C 1227 | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JZ01D | K22178220 |       | 132- | A    | E1      |
| C 1228 | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100BZ01D | K22178297 |       | 1-   | A    | E1      |
| C 1229 | CHIP CAP.    | 9pF     | 50V  | CH   | GRM1552C1H9R0BZ01D | K22178296 |       | 1-   | A    | E1      |
| C 1230 | CHIP CAP.    | 8pF     | 50V  | CH   | GRM1552C1H8R0BZ01D | K22178295 |       | 1-   | B    | b1      |
| C 1231 | CHIP CAP.    | 33pF    | 50V  | CH   | GRM1552C1H330JZ01D | K22178224 |       | 1-   | A    | E1      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE   | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.        | LOT   | SIDE | LAY ADR |
|--------|-------------|---------|-----|------|--------------------|-----------|--------------|-------|------|---------|
| C 1232 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |              | 1-    | A    | E1      |
| C 1233 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | F1      |
| C 1234 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | F1      |
| C 1235 | CHIP CAP.   | 4pF     | 50V | CH   | GRM1552C1H4R0BZ01D | K22178291 |              | 1-    | A    | F1      |
| C 1236 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |              | 1-    | A    | F1      |
| C 1237 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | F1      |
| C 1238 | CHIP CAP.   | 47pF    | 50V | CH   | GRM1552C1H470JZ01D | K22178228 |              | 1-    | B    | b1      |
| C 1239 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |              | 1-    | B    | b1      |
| C 1240 | CHIP CAP.   | 7pF     | 50V | CH   | GRM1552C1H7R0BZ01D | K22178294 |              | 1-    | B    | b1      |
| C 1241 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | F1      |
| C 1242 | CHIP CAP.   | 150pF   | 50V | CH   | GRM1552C1H151JA01D | K22178240 |              | 1-    | B    | b1      |
| C 1243 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |              | 1-    | B    | b1      |
| C 1244 | CHIP CAP.   | 6pF     | 50V | CH   | GRM1552C1H6R0BZ01D | K22178293 |              | 1-    | B    | b1      |
| C 1245 | CHIP CAP.   | 4pF     | 50V | CH   | GRM1552C1H4R0BZ01D | K22178291 |              | 1-    | B    | b1      |
| C 1246 | CHIP CAP.   | 9pF     | 50V | CH   | GRM1552C1H9R0DZ01D | K22178211 |              | 1-    | B    | a1      |
| C 1247 | CHIP CAP.   | 9pF     | 50V | CH   | GRM1552C1H9R0DZ01D | K22178211 |              | 1-    | B    | a1      |
| C 1248 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |              | 1-    | B    | a1      |
| C 1249 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | G1      |
| C 1250 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |              | 1-    | A    | G1      |
| C 1251 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |              | 1-    | A    | G1      |
| C 1252 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JZ01D | K22178222 |              | 1-    | B    | b1      |
| C 1253 | CHIP CAP.   | 100pF   | 50V | CH   | GRM1552C1H101JD01D | K22178236 |              | 1-    | B    | b1      |
| C 1254 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JZ01D | K22178222 |              | 1-    | B    | b1      |
| C 1255 | CHIP CAP.   | 30pF    | 50V | CH   | GRM1552C1H300JZ01D | K22178223 |              | 1-    | B    | b1      |
| C 1256 | CHIP CAP.   | 22pF    | 50V | CH   | GRM1552C1H220JZ01D | K22178220 |              | 1-    | B    | b1      |
| C 1256 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JZ01D | K22178222 |              | 98-   | B    | b1      |
| C 1257 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | F1      |
| C 1258 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | B    | b1      |
| C 1259 | CHIP CAP.   | 24pF    | 50V | CH   | GRM1552C1H240JZ01D | K22178221 |              | 1-    | B    | b2      |
| C 1260 | CHIP CAP.   | 33pF    | 50V | CH   | GRM1552C1H330JZ01D | K22178224 |              | 1-    | B    | b2      |
| C 1261 | CHIP CAP.   | 10pF    | 50V | CH   | GRM1552C1H100BZ01D | K22178297 |              | 1-    | B    | b1      |
| C 1262 | CHIP CAP.   | 22pF    | 50V | CH   | GRM1552C1H220JZ01D | K22178220 |              | 1-    | B    | a2      |
| C 1263 | CHIP CAP.   | 330pF   | 50V | CH   | GRM1882C1H331JA01D | K22174253 |              | 1-    | B    | a2      |
| C 1264 | CHIP CAP.   | 5pF     | 50V | CH   | GRM1552C1H5R0BZ01D | K22178292 |              | 1-97  | B    | b2      |
| C 1266 | CHIP CAP.   | 22pF    | 50V | CH   | GRM1552C1H220JZ01D | K22178220 |              | 1-    | B    | a1      |
| C 1270 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |              | 1-    | A    | F2      |
| C 1271 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |              | 1-    | A    | F2      |
| C 1272 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | F1      |
| C 1273 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | C1      |
| C 1274 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |              | 1-    | A    | C1      |
| C 1275 | CHIP CAP.   | 5pF     | 50V | CH   | GRM1552C1H5R0BZ01D | K22178292 |              | 1-    | A    | C1      |
| C 1276 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | C1      |
| C 1277 | CHIP CAP.   | 9pF     | 50V | CH   | GRM1552C1H9R0BZ01D | K22178296 |              | 1-    | A    | C2      |
| C 1278 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0BZ01D | K22178289 |              | 1-    | A    | C1      |
| C 1279 | CHIP CAP.   | 10pF    | 50V | CH   | GRM1552C1H100BZ01D | K22178297 |              | 1-    | A    | C2      |
| C 1280 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0BZ01D | K22178289 |              | 1-    | A    | C2      |
| C 1281 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |              | 1-    | A    | D2      |
| C 1282 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | D2      |
| C 1283 | CHIP CAP.   | 8pF     | 50V | CH   | GRM1552C1H8R0BZ01D | K22178295 |              | 1-    | A    | D2      |
| C 1284 | CHIP CAP.   | 1.5pF   | 50V | CK   | GRM1554C1H1R5BZ01D | K22178288 |              | 1-    | A    | D2      |
| C 1286 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | A    | E2      |
| C 1287 | CHIP CAP.   | 8pF     | 50V | CH   | GRM1552C1H8R0BZ01D | K22178295 |              | 1-    | A    | F2      |
| C 1288 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |              | 1-    | A    | F2      |
| C 1289 | CHIP CAP.   | 4pF     | 50V | CH   | GRM1552C1H4R0BZ01D | K22178291 |              | 1-    | A    | F2      |
| C 1290 | CHIP CAP.   | 4pF     | 50V | CH   | GRM1552C1H4R0BZ01D | K22178291 |              | 1-    | A    | F2      |
| C 1291 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0BZ01D | K22178289 |              | 1-    | A    | F2      |
| C 1292 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0BZ01D | K22178287 |              | 1-    | A    | F2      |
| C 1293 | CHIP CAP.   | 1.5pF   | 50V | CK   | GRM1554C1H1R5BZ01D | K22178288 |              | 1-    | A    | F1      |
| C 1294 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | B    | e1      |
| C 1295 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-    | B    | e1      |
| C 1296 | CHIP CAP.   | 8pF     | 50V | CH   | GRM1552C1H8R0BZ01D | K22178295 |              | 1-    | B    | e1      |
| C 1296 | CHIP CAP.   | 18pF    | 50V | CH   | GRM1552C1H180JZ01D | K22178218 |              | 134-  | B    | e1      |
| C 1297 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0BZ01D | K22178287 |              | 1-    | B    | e1      |
| C 1298 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JZ01D | K22178222 |              | 1-    | B    | e1      |
| C 1299 | CHIP CAP.   | 0.75pF  | 50V | CK   | GRM1554C1HR75BZ01D | K22178286 |              | 1-    | B    | e1      |
| C 1300 | CHIP CAP.   | 0.75pF  | 50V | CK   | GRM1554C1HR75BZ01D | K22178286 |              | 1-    | B    | d1      |
| C 1301 | CHIP CAP.   | 4pF     | 50V | CH   | GRM1552C1H4R0BZ01D | K22178291 |              | 1-    | B    | e1      |
| C 1302 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 1-3   | A    | C1      |
| C 1302 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 | W/ CE LABEL  | 4-129 | A    | C1      |
| C 1302 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 | W/O CE LABEL | 4-129 | A    | C1      |
| C 1302 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |              | 130-  | A    | C1      |
| C 1303 | CHIP CAP.   | 0.01uF  | 16V | B    | GRM36B103K16PT     | K22128804 |              | 1-    | A    | E2      |
| C 1303 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |              | 57-   | A    | E2      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE   | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-------------|---------|-----|------|--------------------|-----------|-------|------|------|---------|
| C 1304 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | d1      |
| C 1305 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JZ01D | K22178222 |       | 1-   | B    | d1      |
| C 1306 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0BZ01D | K22178287 |       | 1-   | B    | d1      |
| C 1306 | CHIP CAP.   | 0.75pF  | 50V | CK   | GRM1554C1HR75BZ01D | K22178286 |       | 134- | B    | d1      |
| C 1307 | CHIP CAP.   | 0.75pF  | 50V | CK   | GRM1554C1HR75BZ01D | K22178286 |       | 1-   | B    | d1      |
| C 1308 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0BZ01D | K22178287 |       | 1-   | B    | d1      |
| C 1309 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JZ01D | K22178222 |       | 1-   | B    | d1      |
| C 1310 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |       | 1-9  | A    | D1      |
| C 1311 | CHIP CAP.   | 100pF   | 50V | CH   | GRM1552C1H101JD01D | K22178236 |       | 1-   | B    | d1      |
| C 1312 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D1      |
| C 1313 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0BZ01D | K22178287 |       | 1-   | A    | C1      |
| C 1314 | CHIP CAP.   | 22pF    | 50V | CH   | GRM1552C1H220JZ01D | K22178220 |       | 1-   | A    | C1      |
| C 1314 | CHIP CAP.   | 15pF    | 50V | CH   | GRM1552C1H150JZ01D | K22178216 |       | 10-  | A    | C1      |
| C 1315 | CHIP CAP.   | 6pF     | 50V | CH   | GRM1552C1H6R0BZ01D | K22178293 |       | 1-9  | A    | C1      |
| C 1316 | CHIP CAP.   | 1.5pF   | 50V | CK   | GRM1554C1H1R5BZ01D | K22178288 |       | 1-   | A    | C1      |
| C 1316 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0BZ01D | K22178287 |       | 10-  | A    | C1      |
| C 1317 | CHIP CAP.   | 6pF     | 50V | CH   | GRM1552C1H6R0BZ01D | K22178293 |       | 1-   | A    | C1      |
| C 1317 | CHIP CAP.   | 5pF     | 50V | CH   | GRM1552C1H5R0BZ01D | K22178292 |       | 10-  | A    | C1      |
| C 1318 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | C1      |
| C 1318 | CHIP CAP.   | 10pF    | 50V | CH   | GRM1552C1H100BZ01D | K22178297 |       | 10-  | A    | C1      |
| C 1319 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | E1      |
| C 1320 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |       | 1-   | A    | D1      |
| C 1321 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D1      |
| C 1322 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c2      |
| C 1323 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c1      |
| C 1324 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | E1      |
| C 1325 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0BZ01D | K22178289 |       | 1-   | A    | E1      |
| C 1326 | CHIP CAP.   | 12pF    | 50V | CH   | GRM1552C1H120JZ01D | K22178214 |       | 1-   | A    | E1      |
| C 1327 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0BZ01D | K22178290 |       | 1-   | B    | c1      |
| C 1328 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0BZ01D | K22178289 |       | 1-   | A    | E1      |
| C 1329 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D1      |
| C 1330 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | C1      |
| C 1331 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | e2      |
| C 1332 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D2      |
| C 1333 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM39B103M25PT     | K22144802 |       | 1-   | A    | C2      |
| C 1333 | CHIP CAP.   | 0.01uF  | 50V | B    | GRM188B11H103KA01D | K22174823 |       | 57-  | A    | C2      |
| C 1334 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | C2      |
| C 1335 | CHIP CAP.   | 7pF     | 50V | CH   | GRM1552C1H7R0BZ01D | K22178294 |       | 1-   | A    | C2      |
| C 1336 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | C2      |
| C 1337 | CHIP CAP.   | 8pF     | 50V | CH   | GRM1552C1H8R0BZ01D | K22178295 |       | 1-   | A    | C2      |
| C 1339 | CHIP CAP.   | 47pF    | 50V | CH   | GRM1552C1H470JZ01D | K22178228 |       | 1-   | A    | C2      |
| C 1340 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |       | 1-   | A    | C2      |
| C 1341 | CHIP CAP.   | 4pF     | 50V | CH   | GRM1552C1H4R0BZ01D | K22178291 |       | 1-   | A    | C2      |
| C 1342 | CHIP CAP.   | 47pF    | 50V | CH   | GRM1552C1H470JZ01D | K22178228 |       | 1-   | A    | C2      |
| C 1343 | CHIP CAP.   | 0.75pF  | 50V | CK   | GRM1554C1HR75BZ01D | K22178286 |       | 1-   | A    | D2      |
| C 1344 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |       | 1-   | A    | D2      |
| C 1345 | CHIP CAP.   | 10pF    | 50V | CH   | GRM1552C1H100BZ01D | K22178297 |       | 1-   | A    | D2      |
| C 1346 | CHIP CAP.   | 0.5pF   | 50V | CK   | GRM1554C1HR50BZ01D | K22178285 |       | 1-   | A    | D2      |
| C 1347 | CHIP CAP.   | 47pF    | 50V | CH   | GRM1552C1H470JZ01D | K22178228 |       | 1-   | A    | D2      |
| C 1349 | CHIP CAP.   | 8pF     | 50V | CH   | GRM1552C1H8R0BZ01D | K22178295 |       | 1-   | A    | D2      |
| C 1350 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c2      |
| C 1351 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c1      |
| C 1352 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | C2      |
| C 1353 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0BZ01D | K22178287 |       | 1-   | A    | C2      |
| C 1354 | CHIP CAP.   | 22pF    | 50V | CH   | GRM1552C1H220JZ01D | K22178220 |       | 1-   | A    | C2      |
| C 1355 | CHIP CAP.   | 7pF     | 50V | CH   | GRM1552C1H7R0BZ01D | K22178294 |       | 1-   | A    | C2      |
| C 1356 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0BZ01D | K22178289 |       | 1-   | A    | C2      |
| C 1357 | CHIP CAP.   | 7pF     | 50V | CH   | GRM1552C1H7R0BZ01D | K22178294 |       | 1-   | A    | D2      |
| C 1358 | CHIP CAP.   | 47pF    | 50V | CH   | GRM1552C1H470JZ01D | K22178228 |       | 1-   | A    | D2      |
| C 1359 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | A    | D2      |
| C 1360 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c2      |
| C 1361 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c1      |
| C 1362 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0BZ01D | K22178289 |       | 1-   | B    | c1      |
| C 1363 | CHIP CAP.   | 7pF     | 50V | CH   | GRM1552C1H7R0BZ01D | K22178294 |       | 1-   | B    | c1      |
| C 1364 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | c2      |
| C 1366 | CHIP CAP.   | 15pF    | 50V | CH   | GRM1552C1H150JZ01D | K22178216 |       | 1-   | B    | c2      |
| C 1367 | CHIP CAP.   | 7pF     | 50V | CH   | GRM1552C1H7R0BZ01D | K22178294 |       | 1-   | B    | c2      |
| C 1368 | CHIP CAP.   | 12pF    | 50V | CH   | GRM1552C1H120JZ01D | K22178214 |       | 1-   | B    | c2      |
| C 1369 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-   | B    | b2      |
| C 1370 | CHIP CAP.   | 10pF    | 50V | CH   | GRM1552C1H100BZ01D | K22178297 |       | 1-   | B    | b2      |
| C 1371 | CHIP CAP.   | 22pF    | 50V | CH   | GRM1552C1H220JZ01D | K22178220 |       | 1-   | B    | c2      |
| C 1372 | CHIP CAP.   | 8pF     | 50V | CH   | GRM1552C1H8R0BZ01D | K22178295 |       | 1-   | B    | c2      |
| C 1374 | CHIP CAP.   | 47pF    | 50V | CH   | GRM1552C1H470JZ01D | K22178228 |       | 1-   | B    | c2      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION    | VALUE    | V/W  | TOL. | MFR'S DESIG            | VXSTD P/N | VERS.       | LOT   | SIDE | LAY ADR |
|--------|----------------|----------|------|------|------------------------|-----------|-------------|-------|------|---------|
| C 1375 | CHIP CAP.      | 1pF      | 50V  | CK   | GRM1554C1H1R0BZ01D     | K22178287 |             | 1-    | B    | a1      |
| C 1376 | CHIP CAP.      | 1.5pF    | 50V  | CK   | GRM1554C1H1R5BZ01D     | K22178288 |             | 1-    | B    | c2      |
| C 1377 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | B    | c2      |
| C 1378 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | A    | D1      |
| C 1379 | CHIP TA.CAP.   | 4.7uF    | 6.3V |      | TEESVP0J475M8R         | K78080053 |             | 1-    | B    | a2      |
| C 1380 | CHIP CAP.      | 0.047uF  | 10V  | B    | GRM155B11A473KA01D     | K22108801 |             | 1-    | B    | a2      |
| C 1381 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | B    | a3      |
| C 1382 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | B    | a2      |
| C 1383 | CHIP CAP.      | 0.022uF  | 16V  | B    | GRM155B11C223KA01D     | K22128806 |             | 1-    | B    | a2      |
| C 1384 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | B    | a3      |
| C 1385 | CHIP CAP.      | 0.01uF   | 16V  | B    | GRM36B103K16PT         | K22128804 |             | 1-    | A    | E3      |
| C 1385 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D     | K22148834 |             | 57-   | A    | E3      |
| C 1386 | CHIP CAP.      | 0.01uF   | 16V  | B    | GRM36B103K16PT         | K22128804 |             | 1-    | A    | E2      |
| C 1386 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D     | K22148834 |             | 57-   | A    | E2      |
| C 1387 | CHIP CAP.      | 0.01uF   | 16V  | B    | GRM36B103K16PT         | K22128804 |             | 1-    | A    | E2      |
| C 1387 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D     | K22148834 |             | 57-   | A    | E2      |
| C 1388 | CHIP CAP.      | 1pF      | 50V  | CK   | GRM1554C1H1R0BZ01D     | K22178287 |             | 1-    | B    | d1      |
| C 1390 | CHIP CAP.      | 0.1uF    | 10V  | B    | GRM155B11A104KA01D     | K22108802 |             | 1-    | B    | d4      |
| C 1391 | CHIP CAP.      | 0.022uF  | 16V  | B    | GRM155B11C223KA01D     | K22128806 |             | 1-    | B    | g2      |
| C 1392 | CHIP CAP.      | 0.022uF  | 16V  | B    | GRM155B11C223KA01D     | K22128806 |             | 1-    | B    | d4      |
| C 1393 | CHIP CAP.      | 470pF    | 50V  | B    | GRM155B11H471KA01D     | K22178805 |             | 1-    | B    | d4      |
| C 1394 | CHIP CAP.      | 1.5pF    | 50V  | CK   | GRM1554C1H1R5BZ01D     | K22178288 |             | 1-    | B    | b1      |
| C 1395 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | B    | b2      |
| C 1397 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | A    | C2      |
| C 1398 | CHIP CAP.      | 100pF    | 50V  | CH   | GRM1552C1H101JD01D     | K22178236 |             | 1-    | A    | G2      |
| C 1398 | CERAMIC CAP.   | 100pF    | 50V  | B    | UP050B101K-A-B         | K28179004 |             | 3-    | A    | G2      |
| C 1398 | CHIP CAP.      | 100pF    | 50V  | CH   | GRM1552C1H101JD01D     | K22178236 |             | 6-    | A    | G2      |
| C 1400 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | B    | a3      |
| C 1403 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | A    | D2      |
| C 1404 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | A    | F4      |
| C 1407 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D     | K22178809 |             | 1-    | A    | D1      |
| C 1409 | CHIP CAP.      | 2pF      | 50V  | CK   | GRM1554C1H2R0BZ01D     | K22178289 |             | 1-    | B    | b3      |
| C 1411 | CHIP CAP.      | 1.5pF    | 50V  | CK   | GRM1554C1H1R5BZ01D     | K22178288 |             | 1-    | A    | G1      |
| C 1412 | CHIP CAP.      | 8pF      | 50V  | CH   | GRM1882C1H8R0DZ01D     | K22174209 |             | 1-    | A    | E1      |
| C 1412 | CHIP CAP.      | 8pF      | 50V  | CH   | GRM1552C1H8R0BZ01D     | K22178295 |             | 3-    | A    | E1      |
| C 1413 | CHIP CAP.      | 7pF      | 50V  | CH   | GRM1552C1H7R0BZ01D     | K22178294 |             | 1-    | B    | b2      |
| C 1413 | CHIP CAP.      | 8pF      | 50V  | CH   | GRM1552C1H8R0BZ01D     | K22178295 |             | 132-  | B    | b2      |
| C 1414 | CHIP CAP.      | 47pF     | 50V  | CH   | GRM1882C1H470JA01D     | K22174227 |             | 1-    | B    | a4      |
| C 1414 | CHIP CAP.      | 47pF     | 50V  | CH   | GRM1552C1H470JZ01D     | K22178228 |             | 6-    | B    | a4      |
| C 1415 | CHIP TA.CAP.   | 10uF     | 6.3V |      | TEESVP0J106M8R         | K78080055 |             | 2-3   | A    | C1      |
| C 1415 | CHIP CAP.      | 2pF      | 50V  | CK   | GRM1554C1H2R0BZ01D     | K22178289 |             | 10-   | A    | C1      |
| C 1416 | CHIP CAP.      | 0.0047uF | 25V  | B    | GRM36B472K25PT         | K22148830 |             | 4-    | B    | f2      |
| C 1416 | CHIP CAP.      | 0.0047uF | 50V  | B    | GRM155B11H472KA01D     | K22178838 |             | 57-   | B    | f2      |
| C 1417 | CHIP CAP.      | 150pF    | 50V  | CH   | GRM1552C1H151JA01D     | K22178240 |             | 4-    | B    | f3      |
| C 1418 | CERAMIC CAP.   | 0.001uF  | 50V  | B    | UP050B102K-A-B         | K28179001 | W/ CE LABEL | 4-129 |      |         |
| C 1419 | CHIP CAP.      | 0.22uF   | 10V  | B    | GRM188B11A224KA01D     | K22104801 |             | 5-9   |      |         |
| CD1001 | CERAMIC DISC   |          |      |      | JTBC450C7              | H7901500  |             | 1-    | B    | g1      |
| CD1001 | CERAMIC DISC   |          |      |      | JTBM450CX7             | H7901520  |             | 130-  | B    | g1      |
| CF1001 | CERAMIC FILTER |          |      |      | LTWC450F               | H3900563  |             | 1-    | B    | g2      |
| D 1001 | DIODE          |          |      |      | DA221 TL               | G2070178  |             | 1-    | A    | E3      |
| D 1002 | DIODE          |          |      |      | 1SS400 TE61            | G2070634  |             | 1-    | B    | c3      |
| D 1003 | DIODE          |          |      |      | UDZS TE-17 9.1B        | G2070868  |             | 1-    | A    | D3      |
| D 1004 | DIODE          |          |      |      | 1SS400 TE61            | G2070634  |             | 1-    | A    | D3      |
| D 1005 | DIODE          |          |      |      | 1SS400 TE61            | G2070634  |             | 1-    | A    | E3      |
| D 1006 | DIODE          |          |      |      | UDZS TE-17 5.1B        | G2070908  |             | 1-    | A    | D1      |
| D 1006 | DIODE          |          |      |      | EDZ TE-61 5.1B         | G2070998  |             | 10-   | A    | D1      |
| D 1007 | DIODE          |          |      |      | DAN222 TL              | G2070174  |             | 1-    | B    | f2      |
| D 1008 | DIODE          |          |      |      | DA221 TL               | G2070178  |             | 1-    | B    | f4      |
| D 1009 | DIODE          |          |      |      | M1FM3-5063             | G2070804  |             | 1-    |      |         |
| D 1009 | DIODE          |          |      |      | M1FM3-6063             | G2071090  |             | 94-   |      |         |
| D 1009 | DIODE          |          |      |      | M1FM3-6063             | G2071090  |             | 130-  |      |         |
| D 1010 | DIODE          |          |      |      | 1SS400 TE61            | G2070634  |             | 1-    | A    | D4      |
| D 1011 | DIODE          |          |      |      | RB551V-30 TE-17        | G2070892  |             | 1-    | B    | g4      |
| D 1012 | DIODE          |          |      |      | HZU2.0BTRF             | G2070844  |             | 1-    | B    | g3      |
| D 1013 | DIODE          |          |      |      | HN2D01FU(TE85R.F)      | G2070348  |             | 1-    | A    | C4      |
| D 1014 | LED            |          |      |      | 12-215UYOC/S530-A3/TR8 | G2071012  |             | 1-    | A    | F4      |
| D 1015 | LED            |          |      |      | 12-215UYOC/S530-A3/TR8 | G2071012  |             | 1-    | A    | F1      |
| D 1016 | LED            |          |      |      | AA1111C-TR             | G2070660  |             | 1-    | A    | A2      |
| D 1016 | LED            |          |      |      | SML-512DWT86           | G2071116  |             | 130-  | A    | A2      |
| D 1017 | LED            |          |      |      | AA1111C-TR             | G2070660  |             | 1-    | A    | B2      |
| D 1017 | LED            |          |      |      | SML-512DWT86           | G2071116  |             | 130-  | A    | B2      |
| D 1018 | LED            |          |      |      | AA1111C-TR             | G2070660  |             | 1-    | A    | A3      |
| D 1018 | LED            |          |      |      | SML-512DWT86           | G2071116  |             | 130-  | A    | A3      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION    | VALUE | V/W | TOL. | MFR'S DESIG       | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|----------------|-------|-----|------|-------------------|-----------|-------|------|------|---------|
| D 1019 | LED            |       |     |      | AA1111C-TR        | G2070660  |       | 1-   | A    | B3      |
| D 1019 | LED            |       |     |      | SML-512DWT86      | G2071116  |       | 130- | A    | B3      |
| D 1020 | DIODE          |       |     |      | DA221 TL          | G2070178  |       | 1-   | B    | e2      |
| D 1021 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | e1      |
| D 1022 | DIODE          |       |     |      | HVC350B-TRF-E     | G2070596  |       | 1-   | B    | e1      |
| D 1023 | DIODE          |       |     |      | HVC365 TRF-E      | G2070902  |       | 1-   | B    | f2      |
| D 1024 | DIODE          |       |     |      | RB751S-40TE61     | G2070850  |       | 1-   | B    | g3      |
| D 1025 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | f1      |
| D 1026 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | d3      |
| D 1027 | DIODE          |       |     |      | DAP222-TL         | G2070432  |       | 1-   | A    | C3      |
| D 1028 | DIODE          |       |     |      | DAN222 TL         | G2070174  |       | 1-   | A    | C3      |
| D 1029 | DIODE          |       |     |      | HN2D01FU(TE85R.F) | G2070348  |       | 1-   | A    | C3      |
| D 1030 | DIODE          |       |     |      | HVC375B-TRF-E     | G2070856  |       | 1-   | B    | d2      |
| D 1031 | DIODE          |       |     |      | HVC350B-TRF-E     | G2070596  |       | 1-   | B    | d2      |
| D 1032 | DIODE          |       |     |      | HSC277TRF-E       | G2070584  |       | 1-   | B    | d2      |
| D 1033 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | e1      |
| D 1034 | DIODE          |       |     |      | HSC277TRF-E       | G2070584  |       | 1-   | B    | d2      |
| D 1035 | DIODE          |       |     |      | HSC277TRF-E       | G2070584  |       | 1-   | B    | d2      |
| D 1036 | DIODE          |       |     |      | HVC365 TRF-E      | G2070902  |       | 1-   | B    | d2      |
| D 1037 | DIODE          |       |     |      | HVC365 TRF-E      | G2070902  |       | 1-   | B    | d2      |
| D 1038 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | d1      |
| D 1039 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | d1      |
| D 1040 | DIODE          |       |     |      | HVC131TRF-E       | G2070676  |       | 1-   | B    | d1      |
| D 1041 | DIODE          |       |     |      | HVC131TRF-E       | G2070676  |       | 1-   | B    | d1      |
| D 1042 | DIODE          |       |     |      | DAN222 TL         | G2070174  |       | 1-   | B    | d1      |
| D 1043 | DIODE          |       |     |      | DAN222 TL         | G2070174  |       | 1-   | B    | c1      |
| D 1044 | DIODE          |       |     |      | RLS135 TE-11      | G2070128  |       | 1-   | A    | E1      |
| D 1045 | DIODE          |       |     |      | 1SV271(TPH3.F)    | G2070476  |       | 1-   | B    | b1      |
| D 1046 | DIODE          |       |     |      | RB751S-40TE61     | G2070850  |       | 1-   | A    | F1      |
| D 1047 | DIODE          |       |     |      | RB751S-40TE61     | G2070850  |       | 1-   | A    | G1      |
| D 1048 | DIODE          |       |     |      | 1SV271(TPH3.F)    | G2070476  |       | 1-   | B    | b1      |
| D 1050 | DIODE          |       |     |      | RLS135 TE-11      | G2070128  |       | 1-   | B    | b2      |
| D 1051 | DIODE          |       |     |      | RB751S-40TE61     | G2070850  |       | 1-   | A    | F2      |
| D 1052 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | A    | C1      |
| D 1053 | DIODE          |       |     |      | HVC131TRF-E       | G2070676  |       | 1-   | A    | C1      |
| D 1054 | DIODE          |       |     |      | HVC350B-TRF-E     | G2070596  |       | 1-   | B    | e1      |
| D 1055 | DIODE          |       |     |      | HVC350B-TRF-E     | G2070596  |       | 1-   | B    | d1      |
| D 1056 | DIODE          |       |     |      | HVC350B-TRF-E     | G2070596  |       | 1-   | B    | d1      |
| D 1057 | DIODE          |       |     |      | HVC131TRF-E       | G2070676  |       | 1-   | A    | C1      |
| D 1058 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | d1      |
| D 1059 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | A    | D1      |
| D 1059 | DIODE          |       |     |      | HVC131TRF-E       | G2070676  |       | 10-  | A    | D1      |
| D 1060 | DIODE          |       |     |      | HSC277TRF-E       | G2070584  |       | 1-   | A    | E1      |
| D 1061 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | A    | C2      |
| D 1062 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | A    | C2      |
| D 1063 | DIODE          |       |     |      | HVC365 TRF-E      | G2070902  |       | 1-   | A    | C2      |
| D 1064 | DIODE          |       |     |      | HVC365 TRF-E      | G2070902  |       | 1-   | A    | C2      |
| D 1065 | DIODE          |       |     |      | HVC365 TRF-E      | G2070902  |       | 1-   | A    | D2      |
| D 1066 | DIODE          |       |     |      | HVC131TRF-E       | G2070676  |       | 1-   | B    | b2      |
| D 1067 | DIODE          |       |     |      | HVC131TRF-E       | G2070676  |       | 1-   | B    | b2      |
| D 1068 | DIODE          |       |     |      | RLS135 TE-11      | G2070128  |       | 1-   | B    | b2      |
| D 1069 | DIODE          |       |     |      | HN2D01FU(TE85R.F) | G2070348  |       | 1-   | A    | C4      |
| D 1070 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | A    | C4      |
| D 1071 | DIODE          |       |     |      | 1SV271(TPH3.F)    | G2070476  |       | 1-   | B    | b1      |
| D 1072 | DIODE          |       |     |      | EDZ TE-61 5.1B    | G2070998  |       | 1-   | A    | D1      |
| D 1073 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | A    | D3      |
| D 1074 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | a2      |
| D 1075 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | A    | C4      |
| D 1076 | DIODE          |       |     |      | UDZS TE-17 5.1B   | G2070908  |       | 1-   | B    | c4      |
| D 1077 | DIODE          |       |     |      | 1SS400 TE61       | G2070634  |       | 1-   | B    | b2      |
| D 1078 | DIODE          |       |     |      | UDZS TE-17 20B    | G2071016  |       | 1-   | A    | F1      |
| D 1079 | SURGE ABSORBER |       |     |      | TVSF0805          | Q9000807  |       | 1-   | A    | F1      |
| D 1079 | SURGE ABSORBER |       |     |      | 1608SGX           | Q9000891  |       | 83-  | A    | F1      |
| D 1079 | SURGE ABSORBER |       |     |      | 1608SGX           | Q9000891  |       | 130- | A    | F1      |
| D 1080 | SURGE ABSORBER |       |     |      | TVSF0805          | Q9000807  |       | 1-   | A    | G1      |
| D 1080 | SURGE ABSORBER |       |     |      | 1608SGX           | Q9000891  |       | 83-  | A    | G1      |
| D 1080 | SURGE ABSORBER |       |     |      | 1608SGX           | Q9000891  |       | 130- | A    | G1      |
| D 1082 | DIODE          |       |     |      | HSC277TRF-E       | G2070584  |       | 1-   | B    | c1      |
| DS1001 | LCD            |       |     |      | A15A013X          | G6090160  |       | 1-   | A    | F2      |
| DS1001 | LCD            |       |     |      | GTG4905SB01       | G6090213  |       | 130- | A    | F2      |
| HS1001 | HEATSINK PLATE |       |     |      |                   | RA0455500 |       | 1-   | B    | c1      |
| J 1001 | SHIELD FINGER  |       |     |      | 4025 3100089      | S5000225  |       | 1-   | A    | E3      |
| J 1002 | SHIELD FINGER  |       |     |      | 4025 3100089      | S5000225  |       | 1-   | A    | E2      |



# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE    | V/W | TOL. | MFR'S DESIG         | VXSTD P/N | VERS.        | LOT   | SIDE | LAY ADR |
|--------|-------------|----------|-----|------|---------------------|-----------|--------------|-------|------|---------|
| J 1003 | CONNECTOR   |          |     |      | HSJ1594-010055      | P1090896  |              | 1-    | B    | b4      |
| J 1004 | CONNECTOR   |          |     |      | HEC3604-010120      | P0091265  |              | 1-    | B    | c4      |
| J 1004 | CONNECTOR   |          |     |      | DC-016PA9T          | P0091445  |              | 130-  | B    | c4      |
| J 1005 | CONNECTOR   |          |     |      | AXK6F10335YP        | P0091225  |              | 1-    | B    | d3      |
| L 1001 | M.RFC       | 1uH      |     |      | LK1608 1R0K-T       | L1690687  |              | 1-    | B    | b3      |
| L 1002 | M.RFC       | 100uH    |     |      | LEM2520T101J        | L1690635  |              | 1-    | B    | c3      |
| L 1003 | M.RFC       | 1uH      |     |      | LK1608 1R0K-T       | L1690687  |              | 1-    | B    | f3      |
| L 1004 | M.RFC       | 0.039uH  |     |      | TFL0510-39N         | L1690818  |              | 1-    | B    | e2      |
| L 1005 | M.RFC       | 0.39uH   |     | 2%   | C1608CB-R39G-RF     | L1691107  |              | 1-    | B    | f2      |
| L 1006 | M.RFC       | 0.39uH   |     | 2%   | C1608CB-R39G-RF     | L1691107  |              | 1-    | B    | e1      |
| L 1007 | M.RFC       | 0.39uH   |     | 2%   | C1608CB-R39G-RF     | L1691107  |              | 1-    | B    | f1      |
| L 1008 | M.RFC       | 1uH      |     |      | LK1608 1R0K-T       | L1690687  |              | 1-    | B    | d2      |
| L 1009 | COIL        |          |     |      | E2 0.3-1.1-3T-R     | L0022579  |              | 1-    | B    | d2      |
| L 1010 | M.RFC       | 0.0039uH |     | 5%   | C1608CB-3N9J-RF     | L1691091  |              | 1-    | B    | d2      |
| L 1011 | M.RFC       | 0.022uH  |     |      | TFL0510-22N         | L1690815  |              | 1-    | B    | d2      |
| L 1012 | M.RFC       | 0.01uH   |     | 2%   | C1608CB-10NG-RF     | L1691032  |              | 1-    | B    | d2      |
| L 1013 | M.RFC       | 0.018uH  |     | 2%   | C1608CB-18NG-RF     | L1691035  |              | 1-    | B    | d2      |
| L 1014 | M.RFC       | 0.024uH  |     | 2%   | C1608CB-24NG-RF     | L1691281  |              | 1-    | B    | d2      |
| L 1015 | M.RFC       | 4.7uH    |     |      | LK1608 4R7K-T       | L1690688  |              | 1-    | B    | d2      |
| L 1016 | M.RFC       | 0.15uH   |     |      | LK1608 R15K-T       | L1690409  |              | 1-    | B    | d2      |
| L 1017 | M.RFC       | 0.047uH  |     |      | TFL0816-47          | L1690499  |              | 1-    | B    | d1      |
| L 1018 | M.RFC       | 0.015uH  |     |      | TFL0816-15          | L1690493  |              | 1-    | B    | d1      |
| L 1019 | M.RFC       | 0.033uH  |     | 2%   | C1608CB-33NG-RF     | L1691038  |              | 1-    | B    | c1      |
| L 1020 | M.RFC       | 0.01uH   |     | 2%   | C1608CB-10NG-RF     | L1691032  |              | 1-    | B    | c1      |
| L 1021 | M.RFC       | 0.1uH    |     | 5%   | C1608CB-R10J-RF     | L1691063  |              | 1-    | A    | D1      |
| L 1021 | M.RFC       | 0.1uH    |     | 2%   | C1608CB-R10G-RF     | L1691045  |              | 3-    | A    | D1      |
| L 1022 | M.RFC       | 0.01uH   |     | 2%   | C1608CB-10NG-RF     | L1691032  |              | 1-    | A    | E1      |
| L 1023 | COIL        |          |     |      | E2 0.3-0.9-3T-R     | L0022389  |              | 1-    | A    | E1      |
| L 1024 | M.RFC       | 0.015uH  |     | 2%   | C1608CB-15NG-RF     | L1691034  |              | 1-    | A    | E1      |
| L 1025 | COIL        |          |     |      | E2 0.25-1.85-8.5T-L | L0022576  |              | 1-    | A    | E1      |
| L 1026 | COIL        | 0.0054uH |     |      | AS050321-5R4NJ      | L0022581  |              | 1-    | A    | E1      |
| L 1027 | M.RFC       | 4.7uH    |     |      | LK1608 4R7K-T       | L1690688  |              | 1-    | A    | F1      |
| L 1028 | COIL        |          |     |      | E2 0.28-1.0-4.5T-R  | L0022395  |              | 1-    | A    | E1      |
| L 1029 | COIL        |          |     |      | E2 0.45-1.4-4T-L    | L0022391  |              | 1-    | B    | b1      |
| L 1030 | COIL        |          |     |      | E2 0.45-1.4-4T-L    | L0022391  |              | 1-    | B    | b1      |
| L 1031 | COIL        |          |     |      | E2 0.45-1.4-4T-L    | L0022391  |              | 1-    | B    | b1      |
| L 1032 | COIL        |          |     |      | E2 0.35-1.6-4T-L    | L0022456  |              | 1-    | B    | a1      |
| L 1033 | COIL        |          |     |      | E2 0.45-1.4-4T-L    | L0022391  |              | 1-    | B    | a1      |
| L 1034 | COIL        |          |     |      | E2 0.45-1.4-4T-L    | L0022391  |              | 1-    | B    | b1      |
| L 1035 | COIL        |          |     |      | E2 0.35-1.6-7T-L    | L0022390  |              | 1-    | B    | b1      |
| L 1036 | M.RFC       | 4.7uH    |     |      | LK1608 4R7K-T       | L1690688  |              | 1-    | B    | b1      |
| L 1037 | COIL        |          |     |      | E2 0.35-1.6-7T-L    | L0022390  |              | 1-    | B    | b1      |
| L 1038 | COIL        |          |     |      | E2 0.35-1.6-7T-L    | L0022390  |              | 1-    | B    | a2      |
| L 1039 | COIL        |          |     |      | E2 0.35-1.6-7T-L    | L0022390  |              | 1-    | B    | a1      |
| L 1040 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  |              | 1-3   | A    | C1      |
| L 1040 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  | W/ CE LABEL  | 4-129 | A    | C1      |
| L 1040 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  | W/O CE LABEL | 4-129 | A    | C1      |
| L 1040 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  |              | 130-  | A    | C1      |
| L 1041 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  |              | 1-    | A    | C2      |
| L 1042 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  |              | 1-    | A    | D2      |
| L 1043 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  |              | 1-    | A    | D2      |
| L 1044 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  |              | 1-    | A    | E2      |
| L 1045 | M.RFC       | 0.0047uH |     |      | TFL0816-4N7         | L1690487  |              | 1-    | A    | E2      |
| L 1046 | M.RFC       | 0.0047uH |     |      | TFL0510-4N7         | L1690807  |              | 1-    | A    | F2      |
| L 1047 | M.RFC       | 0.01uH   |     |      | TFL0510-10N         | L1690811  |              | 1-    | A    | F2      |
| L 1048 | M.RFC       | 0.01uH   |     |      | TFL0816-10          | L1690491  |              | 1-    | A    | F1      |
| L 1049 | COIL        |          |     |      | E2 0.28-1.0-4T-R    | L0022365  |              | 1-    | B    | e1      |
| L 1050 | COIL        |          |     |      | E2 0.28-1.0-4T-R    | L0022365  |              | 1-    | B    | d1      |
| L 1051 | M.RFC       | 0.01uH   |     | 2%   | C1608CB-10NG-RF     | L1691032  |              | 1-    | A    | D1      |
| L 1052 | M.RFC       | 0.1uH    |     |      | TFL0816-100N        | L1690981  |              | 1-    | A    | D1      |
| L 1052 | M.RFC       | 0.068uH  |     |      | TFL0816-68          | L1690501  |              | 134-  | A    | D1      |
| L 1053 | M.RFC       | 0.015uH  |     |      | TFL0510-15N         | L1690813  |              | 1-    | A    | C1      |
| L 1054 | M.RFC       | 0.015uH  |     |      | TFL0510-15N         | L1690813  |              | 1-    | A    | C1      |
| L 1054 | M.RFC       | 0.039uH  |     |      | TFL0510-39N         | L1690818  |              | 10-   | A    | C1      |
| L 1055 | M.RFC       | 0.015uH  |     |      | TFL0510-15N         | L1690813  |              | 1-    | A    | D1      |
| L 1055 | M.RFC       | 0.082uH  |     | 2%   | C1608CB-82NG-RF     | L1691044  |              | 10-   | A    | D1      |
| L 1056 | M.RFC       | 0.033uH  |     |      | TFL0510-33N         | L1690817  |              | 1-    | A    | D1      |
| L 1057 | M.RFC       | 0.039uH  |     | 2%   | C1608CB-39NG-RF     | L1691039  |              | 1-    | A    | E1      |
| L 1058 | M.RFC       | 0.01uH   |     | 2%   | C1608CB-10NG-RF     | L1691032  |              | 1-    | A    | E1      |
| L 1059 | M.RFC       | 0.01uH   |     | 2%   | C1608CB-10NG-RF     | L1691032  |              | 1-    | B    | c1      |
| L 1060 | M.RFC       | 0.082uH  |     | 2%   | C1608CB-82NG-RF     | L1691044  |              | 1-    | A    | C2      |
| L 1061 | M.RFC       | 0.082uH  |     | 2%   | C1608CB-82NG-RF     | L1691044  |              | 1-    | A    | D2      |
| L 1062 | M.RFC       | 0.082uH  |     | 2%   | C1608CB-82NG-RF     | L1691044  |              | 1-    | A    | D2      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE   | V/W | TOL. | MFR'S DESIG            | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-------------|---------|-----|------|------------------------|-----------|-------|------|------|---------|
| L 1063 | M.RFC       | 1uH     |     |      | LK1608 1R0K-T          | L1690687  |       | 1-   | B    | c2      |
| L 1064 | M.RFC       | 0.047uH |     |      | TFL0816-47             | L1690499  |       | 1-   | A    | C2      |
| L 1065 | M.RFC       | 0.039uH |     |      | TFL0816-39             | L1690498  |       | 1-   | A    | C2      |
| L 1066 | M.RFC       | 0.039uH |     |      | TFL0816-39             | L1690498  |       | 1-   | A    | D2      |
| L 1067 | M.RFC       | 0.22uH  |     | 2%   | C1608CB-R22G-RF        | L1691103  |       | 1-   | B    | c2      |
| L 1068 | M.RFC       | 0.082uH |     | 2%   | C1608CB-82NG-RF        | L1691044  |       | 1-   | B    | c2      |
| L 1069 | M.RFC       | 0.082uH |     | 2%   | C1608CB-82NG-RF        | L1691044  |       | 1-   | B    | c2      |
| L 1070 | M.RFC       | 0.024uH |     | 2%   | C1608CB-24NG-RF        | L1691281  |       | 1-   | B    | c2      |
| L 1071 | M.RFC       | 0.022uH |     |      | TFL0816-22             | L1690495  |       | 1-   | B    | c2      |
| L 1072 | M.RFC       | 0.047uH |     | 2%   | C1608CB-47NG-RF        | L1691040  |       | 1-   | B    | c2      |
| L 1073 | M.RFC       | 0.082uH |     | 2%   | C1608CB-82NG-RF        | L1691044  |       | 1-   | B    | c2      |
| L 1074 | COIL        |         |     |      | E2 0.28-1.0-10TR       | L0022425  |       | 1-   | B    | b2      |
| L 1075 | COIL        |         |     |      | E2 0.35-1.6-7T-L       | L0022390  |       | 1-   | B    | b2      |
| L 1076 | M.RFC       | 1uH     |     |      | LK1608 1R0K-T          | L1690687  |       | 1-   | A    | C2      |
| L 1077 | M.RFC       | 1uH     |     |      | LK1608 1R0K-T          | L1690687  |       | 1-   | A    | C2      |
| L 1078 | M.RFC       | 1uH     |     |      | LK1608 1R0K-T          | L1690687  |       | 1-   | A    | G4      |
| L 1079 | M.RFC       | 1uH     |     |      | LK1608 1R0K-T          | L1690687  |       | 1-   | B    | d1      |
| L 1080 | M.RFC       | 1uH     |     |      | LK1608 1R0K-T          | L1690687  |       | 1-   | B    | b1      |
| L 1081 | M.RFC       | 0.039uH |     |      | TFL0510-39N            | L1690818  |       | 10-  | A    | C1      |
| L 1082 | M.RFC       | 0.039uH |     |      | TFL0510-39N            | L1690818  |       | 10-  | A    | C1      |
| MC1001 | MIC.ELEMENT |         |     |      | EM-100PT               | M3290029  |       | 1-   | A    | D1      |
| MC1001 | MIC.ELEMENT |         |     |      | PF0-1055P              | M3290045  |       | 130- | A    | D1      |
| Q 1001 | IC          |         |     |      | NJU7231F30-TE1         | G1093512  |       | 1-   | B    | c3      |
| Q 1002 | TRANSISTOR  |         |     |      | 2SB1132 T100 Q         | G3211327Q |       | 1-   | B    | d3      |
| Q 1003 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | c3      |
| Q 1004 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | d3      |
| Q 1005 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | f2      |
| Q 1006 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | d3      |
| Q 1007 | IC          |         |     |      | NJM12902V-TE1          | G1093592  |       | 1-   | B    | e3      |
| Q 1008 | IC          |         |     |      | TDA7233D-TR            | G1091112  |       | 1-   | B    | b2      |
| Q 1009 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | c4      |
| Q 1010 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | c4      |
| Q 1011 | TRANSISTOR  |         |     |      | 2SB1132 T100 Q         | G3211327Q |       | 1-   | A    | E3      |
| Q 1012 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | c3      |
| Q 1014 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | A    | E3      |
| Q 1015 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | A    | E2      |
| Q 1016 | IC          |         |     |      | S-80848CNNB-B89-T2     | G1094012  |       | 1-   | A    | E3      |
| Q 1017 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | A    | E3      |
| Q 1018 | TRANSISTOR  |         |     |      | DTA144EE TL            | G3070074  |       | 1-   | B    | d3      |
| Q 1019 | IC          |         |     |      | NJM12902V-TE1          | G1093592  |       | 1-   | B    | e4      |
| Q 1020 | IC          |         |     |      | NJM12902V-TE1          | G1093592  |       | 1-   | B    | f4      |
| Q 1021 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | e3      |
| Q 1022 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | e4      |
| Q 1023 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | e4      |
| Q 1024 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | d4      |
| Q 1025 | TRANSISTOR  |         |     |      | 2SD1664 T100 Q         | G3416647Q |       | 1-   | B    | g3      |
| Q 1026 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | d4      |
| Q 1027 | TRANSISTOR  |         |     |      | DTA144EE TL            | G3070074  |       | 1-   | B    | e3      |
| Q 1028 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | e3      |
| Q 1029 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | e3      |
| Q 1030 | IC          |         |     |      | BU2090FS-E2            | G1092187  |       | 1-   | B    | e3      |
| Q 1031 | IC          |         |     |      | HD64F2266TF13V(FLASH)  | G1093813  |       | 1-   | A    | F3      |
| Q 1032 | TRANSISTOR  |         |     |      | DTA144EE TL            | G3070074  |       | 1-   | A    | F3      |
| Q 1033 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | b3      |
| Q 1034 | IC          |         |     |      | AT24C256BN-SH-T        | G1093837  |       | 1-   | B    | b3      |
| Q 1034 | IC          |         |     |      | R1EX24256ASAS0I        | G1094758  |       | 130- | B    | b3      |
| Q 1035 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | a3      |
| Q 1036 | TRANSISTOR  |         |     |      | 2SB1132 T100 Q         | G3211327Q |       | 1-   | B    | a3      |
| Q 1037 | IC          |         |     |      | MB15A01PFV1-G-BND-EFE1 | G1092545  |       | 1-   | B    | e2      |
| Q 1038 | TRANSISTOR  |         |     |      | 2SA1774 TL R           | G3117748R |       | 1-   | B    | e2      |
| Q 1039 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | e2      |
| Q 1040 | TRANSISTOR  |         |     |      | 2SC5006-T1             | G3350068  |       | 1-   | B    | e1      |
| Q 1041 | TRANSISTOR  |         |     |      | 2SC4915-O(TE85L.F)     | G3349158O |       | 1-   | B    | f2      |
| Q 1042 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | g1      |
| Q 1043 | TRANSISTOR  |         |     |      | DTA144EE TL            | G3070074  |       | 1-   | B    | g1      |
| Q 1044 | IC          |         |     |      | TA31136FNG(EL)         | G1091605  |       | 1-   | B    | g1      |
| Q 1044 | IC          |         |     |      | AA32416                | G1094857  |       | 130- | B    | g1      |
| Q 1045 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | g2      |
| Q 1046 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | g3      |
| Q 1047 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | g3      |
| Q 1048 | TRANSISTOR  |         |     |      | 2SC4617 TL R           | G3346178R |       | 1-   | B    | f3      |
| Q 1049 | TRANSISTOR  |         |     |      | 2SC4915-O(TE85L.F)     | G3349158O |       | 1-   | B    | f1      |
| Q 1050 | TRANSISTOR  |         |     |      | DTC144EE TL            | G3070075  |       | 1-   | B    | d3      |

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## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG       | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-------------------|-----------|-------|------|------|---------|
| Q 1051 | TRANSISTOR  |       |       |      | 2SA1774 TL R      | G3117748R |       | 1-   | A    | C3      |
| Q 1052 | TRANSISTOR  |       |       |      | DTA144EE TL       | G3070074  |       | 1-   | A    | C3      |
| Q 1053 | TRANSISTOR  |       |       |      | 2SC4617 TL R      | G3346178R |       | 1-   | B    | d3      |
| Q 1054 | IC          |       |       |      | TA75S01F(TE85R.F) | G1091593  |       | 1-   | B    | a2      |
| Q 1055 | IC          |       |       |      | BU2090FS-E2       | G1092187  |       | 1-   | A    | D3      |
| Q 1056 | TRANSISTOR  |       |       |      | 2SA1774 TL R      | G3117748R |       | 1-   | A    | D3      |
| Q 1057 | TRANSISTOR  |       |       |      | 2SA1774 TL R      | G3117748R |       | 1-   | A    | C3      |
| Q 1058 | TRANSISTOR  |       |       |      | UMA8N TR          | G3070270  |       | 1-   | A    | D3      |
| Q 1059 | TRANSISTOR  |       |       |      | 2SA1774 TL R      | G3117748R |       | 1-   | A    | D3      |
| Q 1060 | TRANSISTOR  |       |       |      | 2SA1774 TL R      | G3117748R |       | 1-   | A    | D3      |
| Q 1061 | TRANSISTOR  |       |       |      | DTA144EE TL       | G3070074  |       | 1-   | A    | C3      |
| Q 1062 | TRANSISTOR  |       |       |      | UMA8N TR          | G3070270  |       | 1-   | A    | C3      |
| Q 1063 | TRANSISTOR  |       |       |      | UMA8N TR          | G3070270  |       | 1-   | A    | C3      |
| Q 1064 | TRANSISTOR  |       |       |      | DTC144EE TL       | G3070075  |       | 1-   | A    | D2      |
| Q 1065 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | B    | d2      |
| Q 1066 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | B    | d2      |
| Q 1067 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | B    | d2      |
| Q 1068 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | B    | d2      |
| Q 1069 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | B    | d1      |
| Q 1070 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | B    | d1      |
| Q 1071 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | B    | d1      |
| Q 1072 | TRANSISTOR  |       |       |      | 2SB1132 T100 Q    | G3211327Q |       | 1-   | A    | E2      |
| Q 1073 | TRANSISTOR  |       |       |      | 2SC4617 TL R      | G3346178R |       | 1-   | A    | D2      |
| Q 1074 | FET         |       |       |      | 2SK2596BXTL-E     | G3825967  |       | 1-   | B    | c1      |
| Q 1074 | FET         |       |       |      | RQA0004PXDQS      | G3070391  |       | 130- | B    | c1      |
| Q 1075 | FET         |       |       |      | RD07MVS1-T12      | G3070320  |       | 1-   | A    | E1      |
| Q 1076 | TRANSISTOR  |       |       |      | DTC144EE TL       | G3070075  |       | 1-   | A    | F1      |
| Q 1077 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | A    | C2      |
| Q 1078 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | A    | D2      |
| Q 1079 | TRANSISTOR  |       |       |      | 2SC5277-D2-TL     | G3352778B |       | 1-   | A    | E2      |
| Q 1079 | TRANSISTOR  |       |       |      | 2SC5277A-2-TL-E   | G3070418  |       | 130- | A    | E2      |
| Q 1080 | FET         |       |       |      | 3SK296ZQ-TL-E     | G4802968  |       | 1-   | B    | e1      |
| Q 1081 | FET         |       |       |      | 3SK296ZQ-TL-E     | G4802968  |       | 1-   | A    | D1      |
| Q 1082 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | A    | C1      |
| Q 1083 | FET         |       |       |      | 3SK296ZQ-TL-E     | G4802968  |       | 1-   | A    | C2      |
| Q 1084 | TRANSISTOR  |       |       |      | 2SC5006-T1        | G3350068  |       | 1-   | A    | C2      |
| Q 1085 | FET         |       |       |      | 3SK296ZQ-TL-E     | G4802968  |       | 1-   | B    | c2      |
| Q 1086 | FET         |       |       |      | 3SK296ZQ-TL-E     | G4802968  |       | 1-   | B    | c2      |
| Q 1087 | IC          |       |       |      | NJU7007F3-TE1     | G1093617  |       | 1-   | A    | E3      |
| Q 1088 | TRANSISTOR  |       |       |      | 2SC4617 TL R      | G3346178R |       | 1-   | A    | D1      |
| Q 1089 | TRANSISTOR  |       |       |      | DTC144EE TL       | G3070075  |       | 1-   | A    | D1      |
| Q 1090 | TRANSISTOR  |       |       |      | DTC144EE TL       | G3070075  |       | 1-   | A    | D3      |
| Q 1091 | TRANSISTOR  |       |       |      | DTC144EE TL       | G3070075  |       | 1-   | B    | a3      |
| R 1001 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH   | J24189033 |       | 1-   | B    | c3      |
| R 1002 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH   | J24189025 |       | 1-   | B    | c3      |
| R 1003 | CHIPRES.    | 3.3k  | 1/16W | 0.5% | RR0510P-332-D     | J24189131 |       | 1-   | A    | D3      |
| R 1004 | CHIPRES.    | 3.3k  | 1/16W | 0.5% | RR0510P-332-D     | J24189131 |       | 1-   | B    | d3      |
| R 1005 | CHIPRES.    | 10k   | 1/16W | 0.5% | RR0510P-103-D     | J24189143 |       | 1-   | B    | c3      |
| R 1006 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH   | J24189037 |       | 1-   | B    | g2      |
| R 1007 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH   | J24189051 |       | 1-   | B    | g3      |
| R 1008 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH   | J24189037 |       | 1-   | B    | f2      |
| R 1009 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH   | J24189051 |       | 1-   | B    | f2      |
| R 1010 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH   | J24189051 |       | 1-   | B    | g3      |
| R 1011 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH   | J24189049 |       | 1-   | B    | f2      |
| R 1012 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH   | J24189051 |       | 1-   | B    | e3      |
| R 1013 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH   | J24189061 |       | 1-   | B    | e3      |
| R 1014 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH   | J24189037 |       | 1-   | B    | e3      |
| R 1015 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH   | J24189037 |       | 1-   | B    | e3      |
| R 1016 | CHIPRES.    | 56k   | 1/16W | 5%   | RMC1/16S 563JTH   | J24189046 |       | 1-   | B    | e3      |
| R 1017 | CHIPRES.    | 68k   | 1/16W | 5%   | RMC1/16S 683JTH   | J24189047 |       | 1-   | B    | f3      |
| R 1018 | CHIPRES.    | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH   | J24189031 |       | 1-   | A    | D4      |
| R 1019 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH   | J24189033 |       | 1-   | B    | a3      |
| R 1020 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH   | J24189037 |       | 1-   | B    | e3      |
| R 1021 | CHIPRES.    | 10    | 1/16W | 5%   | RMC1/16S 100JTH   | J24189001 |       | 1-   | B    | b2      |
| R 1023 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH   | J24189025 |       | 1-   | B    | c3      |
| R 1024 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH   | J24189045 |       | 1-   | B    | c3      |
| R 1025 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH   | J24189025 |       | 1-   | B    | c4      |
| R 1026 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH   | J24189021 |       | 1-   | B    | c3      |
| R 1027 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH   | J24189013 |       | 1-   | A    | C3      |
| R 1028 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH   | J24189053 |       | 1-   | B    | c4      |
| R 1029 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH   | J24189037 |       | 1-   | A    | E3      |
| R 1030 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH   | J24189049 |       | 1-   | A    | E2      |
| R 1031 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH   | J24189041 |       | 1-   | A    | F3      |

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## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS.     | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-----------|-----|------|---------|
| R 1032 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |           | 1-  | A    | E3      |
| R 1033 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |           | 1-  | A    | E3      |
| R 1034 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |           | 1-  | A    | E3      |
| R 1035 | CHIPRES.    | 33k   | 1/16W | 5%   | RMC1/16S 333JTH | J24189043 |           | 1-  | A    | D1      |
| R 1036 | CHIPRES.    | 56k   | 1/16W | 5%   | RMC1/16S 563JTH | J24189046 |           | 1-  | A    | D1      |
| R 1037 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |           | 1-  | B    | d3      |
| R 1038 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |           | 1-  | A    | D4      |
| R 1039 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |           | 1-  | A    | C3      |
| R 1040 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |           | 1-  | A    | C4      |
| R 1041 | CHIPRES.    | 15k   | 1/16W | 5%   | RMC1/16S 153JTH | J24189039 |           | 1-  | B    | d4      |
| R 1042 | CHIPRES.    | 68k   | 1/16W | 0.5% | RR0510R-683-D   | J24189163 |           | 1-  | A    | C4      |
| R 1043 | CHIPRES.    | 33k   | 1/16W | 5%   | RMC1/16S 333JTH | J24189043 |           | 1-  | B    | e3      |
| R 1044 | CHIPRES.    | 2.2M  | 1/16W | 5%   | RMC1/16S 225JTH | J24189065 |           | 1-  | B    | d4      |
| R 1045 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |           | 1-  | B    | d4      |
| R 1046 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |           | 1-  | B    | d4      |
| R 1047 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |           | 1-  | B    | a3      |
| R 1048 | CHIPRES.    | 10k   | 1/16W | 0.5% | RR0510P-103-D   | J24189143 |           | 1-  | B    | e4      |
| R 1049 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |           | 1-  | B    | e4      |
| R 1050 | CHIPRES.    | 820k  | 1/16W | 5%   | RMC1/16S 824JTH | J24189060 |           | 1-  | A    | D3      |
| R 1051 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |           | 1-  | B    | f3      |
| R 1052 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |           | 1-  | B    | f2      |
| R 1053 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |           | 1-  | B    | f3      |
| R 1054 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |           | 1-  | B    | f3      |
| R 1054 | CHIPRES.    | 33k   | 1/16W | 5%   | RMC1/16S 333JTH | J24189043 |           | 4-  | B    | f3      |
| R 1055 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |           | 1-2 |      |         |
| R 1055 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 | AUSTRALIA | 3   |      |         |
| R 1055 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 | EUROPE    | 3   |      |         |
| R 1055 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 | EXPORT    | 3   |      |         |
| R 1055 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 | USA       | 3   |      |         |
| R 1056 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |           | 1-3 |      |         |
| R 1057 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |           | 1-  | B    | f3      |
| R 1057 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |           | 4-  | B    | f3      |
| R 1058 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |           | 1-  | B    | f3      |
| R 1059 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |           | 1-  | B    | e3      |
| R 1060 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |           | 1-  | B    | f3      |
| R 1061 | CHIPRES.    | 39k   | 1/16W | 5%   | RMC1/16S 393JTH | J24189044 |           | 1-  | B    | f3      |
| R 1062 | CHIPRES.    | 33k   | 1/16W | 5%   | RMC1/16S 333JTH | J24189043 |           | 1-  | B    | f2      |
| R 1063 | CHIPRES.    | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |           | 1-  | B    | e3      |
| R 1064 | CHIPRES.    | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |           | 1-  | B    | e3      |
| R 1065 | CHIPRES.    | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |           | 1-  | B    | e3      |
| R 1066 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |           | 1-  | B    | f4      |
| R 1067 | CHIPRES.    | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |           | 1-  | B    | f4      |
| R 1068 | CHIPRES.    | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |           | 1-  | B    | f4      |
| R 1069 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |           | 1-  | B    | f4      |
| R 1070 | CHIPRES.    | 120k  | 1/16W | 5%   | RMC1/16S 124JTH | J24189050 |           | 1-  | B    | f4      |
| R 1071 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |           | 1-  | B    | f4      |
| R 1072 | CHIPRES.    | 39k   | 1/16W | 5%   | RMC1/16S 393JTH | J24189044 |           | 1-  | B    | f3      |
| R 1073 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |           | 1-  | B    | g3      |
| R 1074 | CHIPRES.    | 6.8   | 1/2W  | 5%   | RMC1/26R8JCTP   | J24275689 |           | 1-  | B    | g3      |
| R 1075 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |           | 1-  | B    | g3      |
| R 1076 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |           | 1-  | B    | d4      |
| R 1077 | CHIPRES.    | 10k   | 1/16W | 0.5% | RR0510P-103-D   | J24189143 |           | 1-  | A    | C4      |
| R 1078 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |           | 1-  | A    | C4      |
| R 1079 | CHIPRES.    | 2.2M  | 1/16W | 5%   | RMC1/16S 225JTH | J24189065 |           | 1-  | B    | e4      |
| R 1080 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |           | 1-  | B    | e4      |
| R 1081 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |           | 1-  | B    | e4      |
| R 1082 | CHIPRES.    | 15k   | 1/16W | 5%   | RMC1/16S 153JTH | J24189039 |           | 1-  | B    | e4      |
| R 1083 | CHIPRES.    | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |           | 1-  | B    | e4      |
| R 1084 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |           | 1-  | B    | e3      |
| R 1085 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |           | 1-  | B    | e3      |
| R 1086 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |           | 1-  | B    | e3      |
| R 1087 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |           | 1-  | B    | e3      |
| R 1088 | CHIPRES.    | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |           | 1-  | B    | e3      |
| R 1089 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |           | 1-  | B    | d3      |
| R 1090 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |           | 1-  | B    | d3      |
| R 1091 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |           | 1-  | B    | d3      |
| R 1092 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |           | 1-3 |      |         |
| R 1092 | CHIPRES.    | 56k   | 1/16W | 5%   | RMC1/16S 563JTH | J24189046 | AUSTRALIA | 4-  | B    | d3      |
| R 1092 | CHIPRES.    | 56k   | 1/16W | 5%   | RMC1/16S 563JTH | J24189046 | EUROPE    | 4-  | B    | d3      |
| R 1092 | CHIPRES.    | 56k   | 1/16W | 5%   | RMC1/16S 563JTH | J24189046 | EXPORT    | 4-  | B    | d3      |
| R 1092 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 | USA       | 4-  | B    | d3      |
| R 1093 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |           | 1-  | B    | d3      |
| R 1094 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |           | 1-  | B    | g3      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS.         | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|---------------|-----|------|---------|
| R 1095 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |               | 1-  | A    | C4      |
| R 1096 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |               | 1-  | B    | d3      |
| R 1097 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |               | 1-  | B    | b2      |
| R 1098 | CHIPRES.    | 10k   | 1/16W | 0.5% | RR0510P-103-D   | J24189143 |               | 1-  | A    | F2      |
| R 1099 | CHIPRES.    | 10k   | 1/16W | 0.5% | RR0510P-103-D   | J24189143 |               | 1-  | A    | F2      |
| R 1100 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |               | 1-  | A    | E2      |
| R 1101 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | B    | b2      |
| R 1102 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E2      |
| R 1103 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | F2      |
| R 1104 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E2      |
| R 1105 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E2      |
| R 1106 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E2      |
| R 1107 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E2      |
| R 1108 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E2      |
| R 1109 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | B    | b3      |
| R 1110 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |               | 1-  | A    | E2      |
| R 1111 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | F2      |
| R 1112 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |               | 1-  | A    | E2      |
| R 1113 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E3      |
| R 1114 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E3      |
| R 1115 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E3      |
| R 1116 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E2      |
| R 1117 | CHIPRES.    | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |               | 1-  | B    | b2      |
| R 1118 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |               | 1-  | B    | d3      |
| R 1119 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |               | 1-  | B    | e3      |
| R 1120 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |               | 1-  | B    | b3      |
| R 1121 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |               | 1-  | B    | b3      |
| R 1122 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |               | 1-  | A    | E3      |
| R 1123 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |               | 1-  | A    | E3      |
| R 1124 | CHIPRES.    | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |               | 1-  | B    | d3      |
| R 1125 | CHIPRES.    | 1.5M  | 1/16W | 5%   | RMC1/16S 155JTH | J24189063 |               | 1-  | B    | d3      |
| R 1126 | CHIPRES.    | 820k  | 1/16W | 5%   | RMC1/16S 824JTH | J24189060 |               | 1-  | B    | d3      |
| R 1127 | CHIPRES.    | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |               | 1-  | B    | d3      |
| R 1128 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |               | 1-  | B    | d3      |
| R 1129 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |               | 1-  | B    | d3      |
| R 1130 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |               | 1-  | B    | d3      |
| R 1131 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |               | 1-  | B    | d3      |
| R 1132 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |               | 1-  | B    | d3      |
| R 1133 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |               | 1-  | B    | d3      |
| R 1134 | CHIPRES.    | 1.8k  | 1/16W | 5%   | RMC1/16S 182JTH | J24189028 |               | 4-  | B    | e3      |
| R 1135 | CHIPRES.    | 2.7k  | 1/16W | 5%   | RMC1/16S 272JTH | J24189030 |               | 4-  | B    | e3      |
| R 1136 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |               | 1-  | A    | C4      |
| R 1137 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |               | 1-  | A    | C4      |
| R 1138 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |               | 1-  | B    | f2      |
| R 1139 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |               | 1-  | B    | f2      |
| R 1140 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |               | 1-  | B    | f2      |
| R 1141 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |               | 1-  | B    | f2      |
| R 1142 | CHIPRES.    | 33k   | 1/16W | 5%   | RMC1/16S 333JTH | J24189043 |               | 1-  | B    | b3      |
| R 1143 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |               | 1-  | A    | F2      |
| R 1144 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |               | 1-  | A    | F2      |
| R 1145 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |               | 1-  | A    | F2      |
| R 1146 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |               | 1-  | A    | F2      |
| R 1147 | CHIPRES.    | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |               | 1-  | A    | F2      |
| R 1148 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | F3      |
| R 1149 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E3      |
| R 1150 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | B    | b3      |
| R 1151 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E3      |
| R 1152 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E3      |
| R 1153 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | F3      |
| R 1154 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |               | 1-  | A    | F3      |
| R 1155 | CHIPRES.    | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |               | 1-  | A    | F3      |
| R 1156 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |               | 1-  | A    | F3      |
| R 1157 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | E3      |
| R 1158 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | F3      |
| R 1159 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | F3      |
| R 1160 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |               | 1-  | A    | F3      |
| R 1161 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |               | 1-  | A    | F3      |
| R 1162 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |               | 1-  | A    | D3      |
| R 1163 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |               | 1-  | A    | F3      |
| R 1164 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VER.A2DST:USA | 1-  | A    | C4      |
| R 1164 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A1    | 2-  | A    | C4      |
| R 1164 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A2    | 2-  | A    | C4      |
| R 1164 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A3    | 2-  | A    | C4      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS.          | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|----------------|------|------|---------|
| R 1164 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION C1     | 2-   | A    | C4      |
| R 1164 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION C2     | 2-   | A    | C4      |
| R 1164 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION C3     | 2-   | A    | C4      |
| R 1164 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION D1     | 2-   | A    | C4      |
| R 1165 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VER.A2 DST:USA | 1-   | A    | C4      |
| R 1165 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A1     | 2-   | A    | C4      |
| R 1165 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A2     | 2-   | A    | C4      |
| R 1165 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A3     | 2-   | A    | C4      |
| R 1165 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION B1     | 2-   | A    | C4      |
| R 1165 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION B2     | 2-   | A    | C4      |
| R 1165 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION B3     | 2-   | A    | C4      |
| R 1166 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A1     | 2-   | A    | C4      |
| R 1166 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A2     | 2-   | A    | C4      |
| R 1166 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION B1     | 2-   | A    | C4      |
| R 1166 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION B2     | 2-   | A    | C4      |
| R 1166 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION C1     | 2-   | A    | C4      |
| R 1166 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION C2     | 2-   | A    | C4      |
| R 1167 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VER.A2 DST:USA | 1-   | B    | d4      |
| R 1167 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION A1     | 2-   | B    | d4      |
| R 1167 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION B1     | 2-   | B    | d4      |
| R 1167 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION C1     | 2-   | B    | d4      |
| R 1167 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION D1     | 2-   | B    | d4      |
| R 1167 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 | VERSION D2     | 2-   | B    | d4      |
| R 1168 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |                | 1-   | B    | b3      |
| R 1169 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |                | 1-   | A    | D4      |
| R 1170 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |                | 1-   | A    | D4      |
| R 1171 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |                | 1-   | B    | b3      |
| R 1172 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |                | 1-   | A    | F3      |
| R 1173 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |                | 1-   | B    | a3      |
| R 1174 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |                | 1-   | B    | a3      |
| R 1175 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |                | 1-   | B    | b3      |
| R 1176 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |                | 1-   | A    | F3      |
| R 1177 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |                | 1-   | A    | F3      |
| R 1178 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |                | 1-   | A    | F3      |
| R 1179 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |                | 1-   | A    | F3      |
| R 1180 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |                | 1-   | A    | F3      |
| R 1181 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |                | 1-   | A    | D3      |
| R 1182 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |                | 1-   | B    | b3      |
| R 1183 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |                | 1-   | A    | F2      |
| R 1184 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |                | 1-   | A    | F2      |
| R 1185 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |                | 1-   | A    | G2      |
| R 1186 | CHIPRES.    | 100k  | 1/16W | 0.5% | RR0510R-104-D   | J24189167 |                | 1-   | A    | G2      |
| R 1187 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |                | 1-   | A    | G3      |
| R 1188 | CHIPRES.    | 560   | 1/16W | 5%   | RMC1/16S 561JTH | J24189022 |                | 1-   | B    | a3      |
| R 1189 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |                | 1-   | B    | a3      |
| R 1190 | CHIPRES.    | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |                | 1-   | B    | g3      |
| R 1190 | CHIPRES.    | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |                | 130- | B    | g3      |
| R 1191 | CHIPRES.    | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |                | 1-   | B    | f3      |
| R 1191 | CHIPRES.    | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |                | 130- | B    | f3      |
| R 1192 | CHIPRES.    | 150   | 1/16W | 5%   | RMC1/16S 151JTH | J24189015 |                | 1-   | A    | F1      |
| R 1193 | CHIPRES.    | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |                | 1-   | B    | a3      |
| R 1194 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |                | 1-   | B    | b3      |
| R 1195 | CHIPRES.    | 18k   | 1/16W | 0.5% | RR0510R-183-D   | J24189149 |                | 1-   | B    | a3      |
| R 1197 | CHIPRES.    | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |                | 1-   | B    | e1      |
| R 1198 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |                | 1-   | B    | e2      |
| R 1199 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |                | 1-   | B    | e2      |
| R 1200 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |                | 1-   | B    | e2      |
| R 1201 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |                | 1-   | B    | e2      |
| R 1202 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |                | 1-   | B    | e2      |
| R 1203 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |                | 1-   | B    | e2      |
| R 1204 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |                | 1-   | B    | e2      |
| R 1205 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |                | 1-   | B    | e1      |
| R 1206 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |                | 1-   | B    | a2      |
| R 1207 | CHIPRES.    | 820k  | 1/16W | 5%   | RMC1/16S 824JTH | J24189060 |                | 1-   | B    | e2      |
| R 1208 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |                | 1-   | B    | e1      |
| R 1209 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |                | 1-   | B    | e1      |
| R 1210 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |                | 1-   | B    | e1      |
| R 1211 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |                | 1-   | B    | e2      |
| R 1212 | CHIPRES.    | 680   | 1/16W | 5%   | RMC1/16S 681JTH | J24189023 |                | 1-   | B    | f2      |
| R 1213 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |                | 1-   | B    | f2      |
| R 1214 | CHIPRES.    | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |                | 1-   | B    | e2      |
| R 1215 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |                | 1-   | B    | e2      |
| R 1216 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |                | 1-   | B    | e3      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|------|------|---------|
| R 1217 | CHIPRES.    | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |       | 1-   | B    | e1      |
| R 1218 | CHIPRES.    | 820k  | 1/16W | 5%   | RMC1/16S 824JTH | J24189060 |       | 1-   | B    | f1      |
| R 1219 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-   | B    | e1      |
| R 1220 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-   | B    | e1      |
| R 1221 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-   | B    | e1      |
| R 1222 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-   | B    | f1      |
| R 1223 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-   | B    | f2      |
| R 1224 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-   | B    | f2      |
| R 1225 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-   | B    | f2      |
| R 1226 | CHIPRES.    | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-   | B    | f2      |
| R 1227 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-   | B    | f2      |
| R 1228 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |       | 1-   | B    | f2      |
| R 1229 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-   | B    | f2      |
| R 1230 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-   | B    | g2      |
| R 1230 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 130- | B    | g2      |
| R 1231 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-   | B    | g1      |
| R 1232 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-   | B    | g1      |
| R 1232 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 130- | B    | g1      |
| R 1233 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |       | 1-   | B    | g2      |
| R 1234 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |       | 1-   | B    | f2      |
| R 1235 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-   | B    | g2      |
| R 1236 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |       | 1-   | B    | g2      |
| R 1237 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-   | B    | g2      |
| R 1238 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-   | B    | g3      |
| R 1239 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-   | B    | g3      |
| R 1240 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |       | 1-   | B    | g3      |
| R 1241 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |       | 1-   | B    | g3      |
| R 1242 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-   | B    | g3      |
| R 1243 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-   | B    | g3      |
| R 1244 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-   | B    | g3      |
| R 1245 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-   | B    | g3      |
| R 1246 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-   | B    | g3      |
| R 1247 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-   | B    | g3      |
| R 1248 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-   | B    | g3      |
| R 1249 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-   | B    | f3      |
| R 1250 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-   | B    | e1      |
| R 1251 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-   | B    | e1      |
| R 1252 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-   | B    | e1      |
| R 1253 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-   | B    | g1      |
| R 1254 | CHIPRES.    | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-   | B    | g1      |
| R 1254 | CHIPRES.    | 18k   | 1/16W | 5%   | RMC1/16S 183JTH | J24189040 |       | 130- | B    | g1      |
| R 1255 | CHIPRES.    | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-   | B    | g1      |
| R 1255 | CHIPRES.    | 1.8k  | 1/16W | 5%   | RMC1/16S 182JTH | J24189028 |       | 130- | B    | g1      |
| R 1256 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-   | B    | g1      |
| R 1257 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-   | B    | g1      |
| R 1258 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-   | B    | f1      |
| R 1259 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-   | B    | f1      |
| R 1260 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-   | B    | f1      |
| R 1261 | CHIPRES.    | 560   | 1/16W | 5%   | RMC1/16S 561JTH | J24189022 |       | 1-   | B    | f1      |
| R 1262 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-   | B    | f1      |
| R 1263 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-   | B    | g3      |
| R 1264 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-   | B    | a2      |
| R 1265 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-   | A    | D1      |
| R 1266 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-   | A    | C3      |
| R 1267 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-   | A    | D3      |
| R 1268 | CHIPRES.    | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-   | B    | d3      |
| R 1269 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-   | A    | D3      |
| R 1270 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-   | A    | C3      |
| R 1272 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-   | A    | D3      |
| R 1273 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-   | A    | D3      |
| R 1274 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-   | A    | D3      |
| R 1275 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-   | A    | D3      |
| R 1276 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-   | A    | C2      |
| R 1277 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-   | A    | C2      |
| R 1278 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-   | B    | d2      |
| R 1279 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-   | B    | d2      |
| R 1280 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-   | B    | d2      |
| R 1281 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |       | 1-   | B    | d2      |
| R 1282 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-   | B    | d2      |
| R 1283 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-   | B    | d2      |
| R 1283 | CHIPRES.    | 22k   | 1/16W | 0.5% | RR0510R-223-D   | J24189151 |       | 130- | B    | d2      |
| R 1284 | CHIPRES.    | 15k   | 1/16W | 5%   | RMC1/16S 153JTH | J24189039 |       | 1-   | B    | d2      |
| R 1284 | CHIPRES.    | 15k   | 1/16W | 0.5% | RR0510R-153-D   | J24189147 |       | 130- | B    | d2      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS.        | LOT  | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|--------------|------|------|---------|
| R 1285 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |              | 1-   | B    | d2      |
| R 1285 | CHIPRES.    | 470   | 1/16W | 0.5% | RR0510P-471-D   | J24189111 |              | 130- | B    | d2      |
| R 1286 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |              | 1-   | B    | d2      |
| R 1287 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |              | 1-   | B    | d2      |
| R 1288 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |              | 1-   | B    | d2      |
| R 1289 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |              | 1-   | B    | e1      |
| R 1290 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | B    | e1      |
| R 1291 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |              | 1-   | B    | d2      |
| R 1292 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |              | 1-   | B    | d2      |
| R 1293 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |              | 1-   | B    | d2      |
| R 1294 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |              | 1-   | B    | d2      |
| R 1295 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |              | 1-   | B    | d2      |
| R 1296 | CHIPRES.    | 15k   | 1/16W | 5%   | RMC1/16S 153JTH | J24189039 |              | 1-   | B    | d2      |
| R 1297 | CHIPRES.    | 680   | 1/16W | 5%   | RMC1/16S 681JTH | J24189023 |              | 1-   | B    | d2      |
| R 1298 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |              | 1-   | B    | d2      |
| R 1298 | CHIPRES.    | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |              | 134- | B    | d2      |
| R 1299 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |              | 1-   | B    | d2      |
| R 1300 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |              | 1-   | B    | d2      |
| R 1301 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |              | 1-   | B    | d1      |
| R 1302 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | B    | d1      |
| R 1303 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |              | 1-   | B    | d1      |
| R 1304 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |              | 1-3  | A    | C1      |
| R 1304 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 | W/ CE LABEL  | 4-   | A    | C1      |
| R 1304 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 | W/O CE LABEL | 4-   | A    | C1      |
| R 1305 | CHIPRES.    | 150   | 1/16W | 5%   | RMC1/16S 151JTH | J24189015 |              | 1-   | B    | d1      |
| R 1305 | CHIPRES.    | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |              | 98-  | B    | d1      |
| R 1306 | CHIPRES.    | 680   | 1/16W | 5%   | RMC1/16S 681JTH | J24189023 |              | 1-   | B    | d1      |
| R 1307 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |              | 1-   | B    | d1      |
| R 1308 | CHIPRES.    | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |              | 1-   | B    | c1      |
| R 1309 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |              | 1-   | B    | d1      |
| R 1310 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |              | 1-   | B    | d1      |
| R 1311 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |              | 1-   | B    | c1      |
| R 1312 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |              | 1-   | B    | c1      |
| R 1313 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |              | 1-   | A    | D2      |
| R 1314 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |              | 1-   | B    | e1      |
| R 1315 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |              | 1-   | A    | D2      |
| R 1316 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |              | 1-   | A    | D1      |
| R 1317 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |              | 1-   | B    | c1      |
| R 1318 | CHIPRES.    | 15k   | 1/16W | 5%   | RMC1/16S 153JTH | J24189039 |              | 1-   | A    | D1      |
| R 1318 | CHIPRES.    | 18k   | 1/16W | 5%   | RMC1/16S 183JTH | J24189040 |              | 130- | A    | D1      |
| R 1319 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | B    | c1      |
| R 1320 | CHIPRES.    | 18k   | 1/16W | 0.5% | RR0510R-183-D   | J24189149 |              | 1-   | A    | C3      |
| R 1321 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |              | 1-   | A    | D1      |
| R 1322 | CHIPRES.    | 680   | 1/16W | 5%   | RMC1/16S 681JTH | J24189023 |              | 1-   | A    | E1      |
| R 1323 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |              | 1-   | A    | D1      |
| R 1324 | CHIPRES.    | 33k   | 1/16W | 5%   | RMC1/16S 333JTH | J24189043 |              | 1-   | A    | D1      |
| R 1325 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | A    | D1      |
| R 1326 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |              | 1-   | A    | F1      |
| R 1327 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |              | 1    | B    | b1      |
| R 1327 | CHIPRES.    | 150   | 1/16W | 5%   | RMC1/16S 151JTH | J24189015 |              | 2-   | B    | b1      |
| R 1328 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | A    | F1      |
| R 1329 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | A    | F1      |
| R 1330 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | A    | G1      |
| R 1331 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | A    | G1      |
| R 1332 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |              | 1-   | B    | a2      |
| R 1333 | CHIPRES.    | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |              | 1-   | B    | b1      |
| R 1336 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | A    | F2      |
| R 1337 | CHIPRES.    | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |              | 1-   | A    | F2      |
| R 1338 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |              | 1-   | A    | C3      |
| R 1339 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |              | 1-   | A    | C1      |
| R 1340 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |              | 1-   | A    | C1      |
| R 1341 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |              | 1-   | A    | C1      |
| R 1342 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |              | 1-   | A    | C2      |
| R 1343 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |              | 1-   | A    | D2      |
| R 1344 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |              | 1-   | A    | D2      |
| R 1345 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |              | 1-   | A    | D2      |
| R 1346 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |              | 1-   | A    | D1      |
| R 1347 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |              | 1-   | A    | E2      |
| R 1348 | CHIPRES.    | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |              | 1-   | A    | E2      |
| R 1349 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |              | 1-   | A    | E2      |
| R 1350 | CHIPRES.    | 150   | 1/16W | 5%   | RMC1/16S 151JTH | J24189015 |              | 1-   | B    | e1      |
| R 1351 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |              | 1-   | B    | e1      |
| R 1352 | CHIPRES.    | 39k   | 1/16W | 5%   | RMC1/16S 393JTH | J24189044 |              | 1-   | B    | e1      |



# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 1353 | CHIPRES.    | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |       | 1-  | B    | e1      |
| R 1354 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | e1      |
| R 1355 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | d1      |
| R 1356 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | d1      |
| R 1357 | CHIPRES.    | 10    | 1/16W | 5%   | RMC1/16S 100JTH | J24189001 |       | 1-  | A    | D1      |
| R 1359 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | D1      |
| R 1360 | CHIPRES.    | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | B    | c1      |
| R 1361 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | E1      |
| R 1362 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-  | A    | D1      |
| R 1363 | CHIPRES.    | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |       | 1-  | A    | C1      |
| R 1364 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | C1      |
| R 1365 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | A    | C1      |
| R 1366 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-9 |      |         |
| R 1367 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-9 |      |         |
| R 1368 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | D1      |
| R 1369 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | c2      |
| R 1370 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | C3      |
| R 1371 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | C3      |
| R 1372 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | e2      |
| R 1373 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | D2      |
| R 1374 | CHIPRES.    | 150   | 1/16W | 5%   | RMC1/16S 151JTH | J24189015 |       | 1-  | A    | C2      |
| R 1375 | CHIPRES.    | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | A    | C2      |
| R 1376 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | C2      |
| R 1377 | CHIPRES.    | 39k   | 1/16W | 5%   | RMC1/16S 393JTH | J24189044 |       | 1-  | A    | C2      |
| R 1378 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | C2      |
| R 1379 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | D2      |
| R 1380 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | D2      |
| R 1381 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | c2      |
| R 1382 | CHIPRES.    | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | B    | c2      |
| R 1383 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | c2      |
| R 1384 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-  | B    | c1      |
| R 1385 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | c2      |
| R 1386 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | c1      |
| R 1387 | CHIPRES.    | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-  | B    | c2      |
| R 1388 | CHIPRES.    | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-  | B    | b2      |
| R 1389 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-  | A    | C2      |
| R 1390 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | C2      |
| R 1391 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-  | A    | C2      |
| R 1392 | CHIPRES.    | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |       | 1-  | A    | C2      |
| R 1393 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | A    | C2      |
| R 1394 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | D2      |
| R 1395 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-  | A    | D2      |
| R 1396 | CHIPRES.    | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-  | A    | D2      |
| R 1397 | CHIPRES.    | 150   | 1/16W | 5%   | RMC1/16S 151JTH | J24189015 |       | 1-  | B    | c2      |
| R 1398 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | c2      |
| R 1399 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | B    | c2      |
| R 1400 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | c2      |
| R 1401 | CHIPRES.    | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-  | B    | c2      |
| R 1402 | CHIPRES.    | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | D1      |
| R 1403 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | a2      |
| R 1404 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | a2      |
| R 1405 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | B    | a2      |
| R 1406 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | a2      |
| R 1407 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | c2      |
| R 1408 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |       | 1-  | A    | E2      |
| R 1409 | CHIPRES.    | 1.5M  | 1/16W | 5%   | RMC1/16S 155JTH | J24189063 |       | 1-  | A    | E3      |
| R 1410 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | E3      |
| R 1411 | CHIPRES.    | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | E2      |
| R 1412 | CHIPRES.    | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | A    | E2      |
| R 1413 | CHIPRES.    | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |       | 1-  | B    | f1      |
| R 1414 | CHIPRES.    | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | D3      |
| R 1415 | CHIPRES.    | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | B    | f1      |
| R 1416 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | F3      |
| R 1417 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | F3      |
| R 1418 | CHIPRES.    | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-  | B    | b1      |
| R 1419 | CHIPRES.    | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | B    | b2      |
| R 1420 | CHIPRES.    | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |       | 1-  | B    | a2      |
| R 1421 | CHIPRES.    | 3.3k  | 1/16W | 0.5% | RR0510P-332-D   | J24189131 |       | 1-  | B    | d3      |
| R 1422 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | A    | C3      |
| R 1423 | CHIPRES.    | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | c4      |
| R 1424 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | D1      |
| R 1425 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | e1      |
| R 1426 | CHIPRES.    | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | D2      |

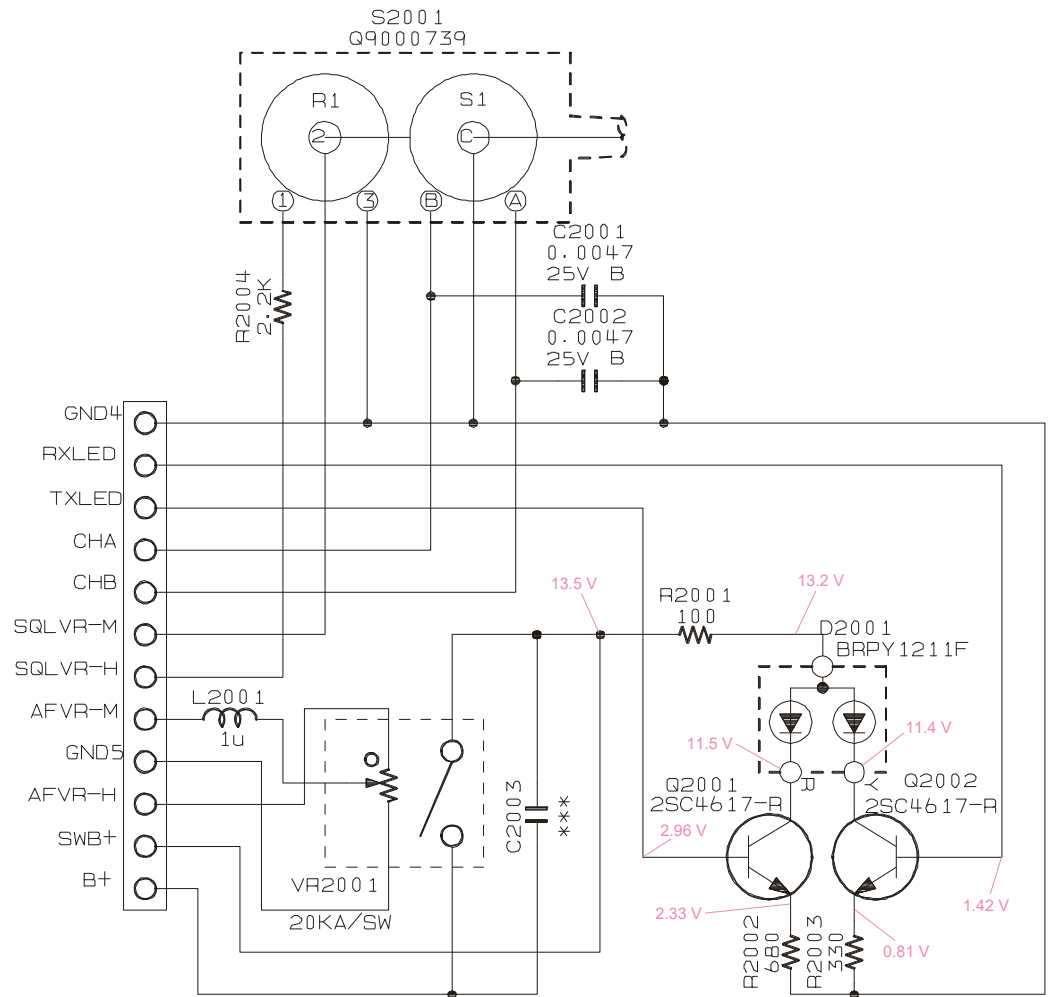
# MAIN Unit

## Parts List

| REF    | DESCRIPTION       | VALUE   | V/W   | TOL. | MFR'S DESIG       | VXSTD P/N | VERS.       | LOT    | SIDE | LAY ADR |
|--------|-------------------|---------|-------|------|-------------------|-----------|-------------|--------|------|---------|
| R 1427 | CHIPRES.          | 1k      | 1/16W | 5%   | RMC1/16S 102JTH   | J24189025 |             | 1-     | B    | e4      |
| R 1428 | CHIPRES.          | 1k      | 1/16W | 5%   | RMC1/16S 102JTH   | J24189025 |             | 1-     | A    | F2      |
| R 1429 | CHIPRES.          | 1k      | 1/16W | 5%   | RMC1/16S 102JTH   | J24189025 |             | 1-     | A    | G4      |
| R 1430 | CHIPRES.          | 0       | 1/16W | 5%   | RMC1/16S JPTH     | J24189070 |             | 1-     | B    | d4      |
| R 1431 | CHIPRES.          | 1k      | 1/16W | 5%   | RMC1/16S 102JTH   | J24189025 |             | 6-     | A    | E3      |
| R 1432 | CHIPRES.          | 100k    | 1/16W | 5%   | RMC1/16S 104JTH   | J24189049 |             | 4-     | B    | f3      |
| R 1433 | CHIPRES.          | 33k     | 1/16W | 5%   | RMC1/16S 333JTH   | J24189043 |             | 4-     | B    | f3      |
| S 1002 | TACT SWITCH       |         |       |      | EVQP4403M         | N5090132  |             | 1-     | A    | F1      |
| S 1003 | TACT SWITCH       |         |       |      | EVQP4403M         | N5090132  |             | 1-     | A    | E1      |
| S 1004 | TACT SWITCH       |         |       |      | EVQP4403M         | N5090132  |             | 1-     | A    | D1      |
| TH1001 | THERMISTOR        |         |       |      | TBPS1R473K475H5Q  | G9090068  |             | 1-     | A    | E2      |
| TH1002 | THERMISTOR        |         |       |      | TBPS1R103K440H5Q  | G9090067  |             | 1-     | B    | f1      |
| TH1003 | THERMISTOR        |         |       |      | TBPS1R104K475H5Q  | G9090069  |             | 1-     | B    | f1      |
| X 1001 | XTAL TRS-4.0      | 4MHz    |       |      | 4.000MHZ          | H0103283  |             | 1-     | B    | b3      |
| X 1001 | XTL XJNGGIDANF    | 4MHz    |       |      | 4.000000MHZ       | H0103314  |             | 31-    | B    | b3      |
| X 1002 | XTAL TSS-6        | 11.7MHz |       |      | TSS-5032A 11.7MHZ | H0103264  |             | 1-     | B    | e2      |
| XF1001 | XTAL FILTER       |         |       |      | MFT47R 47.25MHZ   | H1102352  |             | 1-     | B    | f1      |
|        | HOLDER            |         |       |      |                   | RA0595200 |             | 1-     |      |         |
|        | HOLDER            |         |       |      |                   | RA059520A |             | 134-   |      |         |
|        | TERMINAL PLATE R  |         |       |      |                   | RA010700A |             | 1-     |      |         |
|        | TERMINAL PLATE    |         |       |      | (ANT)             | RA0322800 |             | 1-     |      |         |
|        | LCD HOLDER        |         |       |      |                   | RA032090B |             | 1-     |      |         |
|        | REFLECTORSHEET    |         |       |      |                   | RA0324800 |             | 1-     |      |         |
|        | REFLECTORSHEET    |         |       |      |                   | RA03248A0 |             | 130-   |      |         |
|        | INTERCONNECTOR    |         |       |      | (LCD)             | RA0324700 |             | 1-     |      |         |
|        | INTERCONNECTOR    |         |       |      | (LCD)             | RA0324700 |             | 130-   |      |         |
|        | INTERCONNECTOR    |         |       |      | (PCB)             | RA0211200 |             | 1-     |      |         |
|        | SHIELD CASE       |         |       |      |                   | RA0595400 |             | 1-     |      |         |
|        | SHIELD CASE       |         |       |      |                   | RA05954A0 |             | 130-   |      |         |
|        | TERMINAL PLATE    |         |       |      |                   | RA0210700 |             | 1-     |      |         |
|        | HOLDERRUBBER      |         |       |      | (MIC)             | RA0110200 |             | 1-     |      |         |
|        | HOLDERRUBBER      |         |       |      | (MIC)             | RA011020A |             | 121-   |      |         |
|        | SHIELD CASE COVER |         |       |      | (FET)             | RA0641700 | W/ CE LABEL | 4-     |      |         |
|        | SHIELD CASE COVER |         |       |      | (FET)             | RA064170A | W/ CE LABEL | 15-    |      |         |
|        | SHIELD CASE COVER |         |       |      | (MIX)             | RA0641800 | W/ CE LABEL | 4-     |      |         |
|        | SHIELD CASE COVER |         |       |      | (MIX)             | RA064180A | W/ CE LABEL | 15-    |      |         |
|        | COPPERSHEET       |         |       |      |                   | RA1097100 |             | 90-129 |      |         |
|        | COPPERSHEET       |         |       |      |                   | RA1364400 |             | 130-   |      |         |
|        | ELEC. COND TAPE   |         |       |      | (MAIN)            | RA0764600 |             | 134-   |      |         |

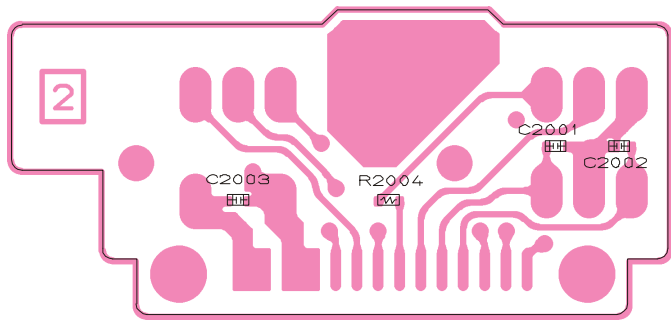
# VR Unit (Lot. 1 ~ 129)

## Circuit Diagram

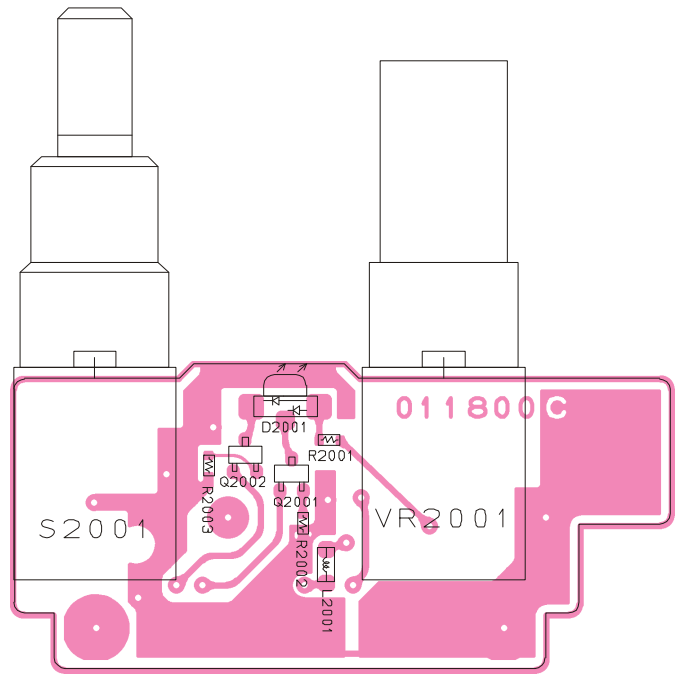


# VR Unit (Lot. 1 ~ 129)

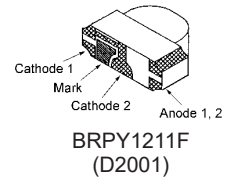
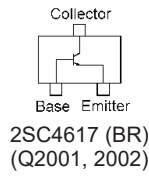
## Parts Layout

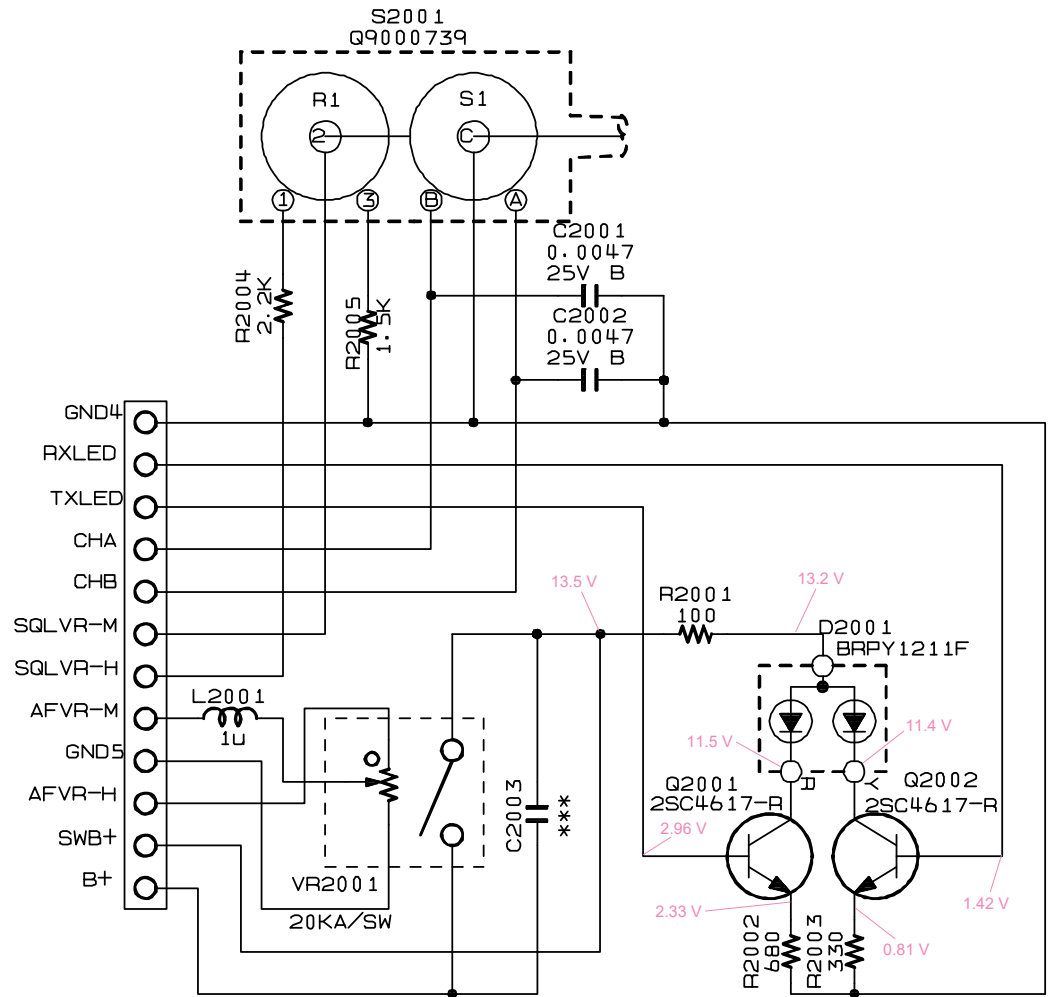


(Side A)



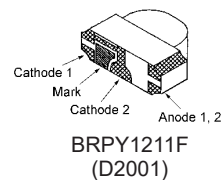
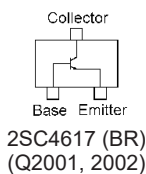
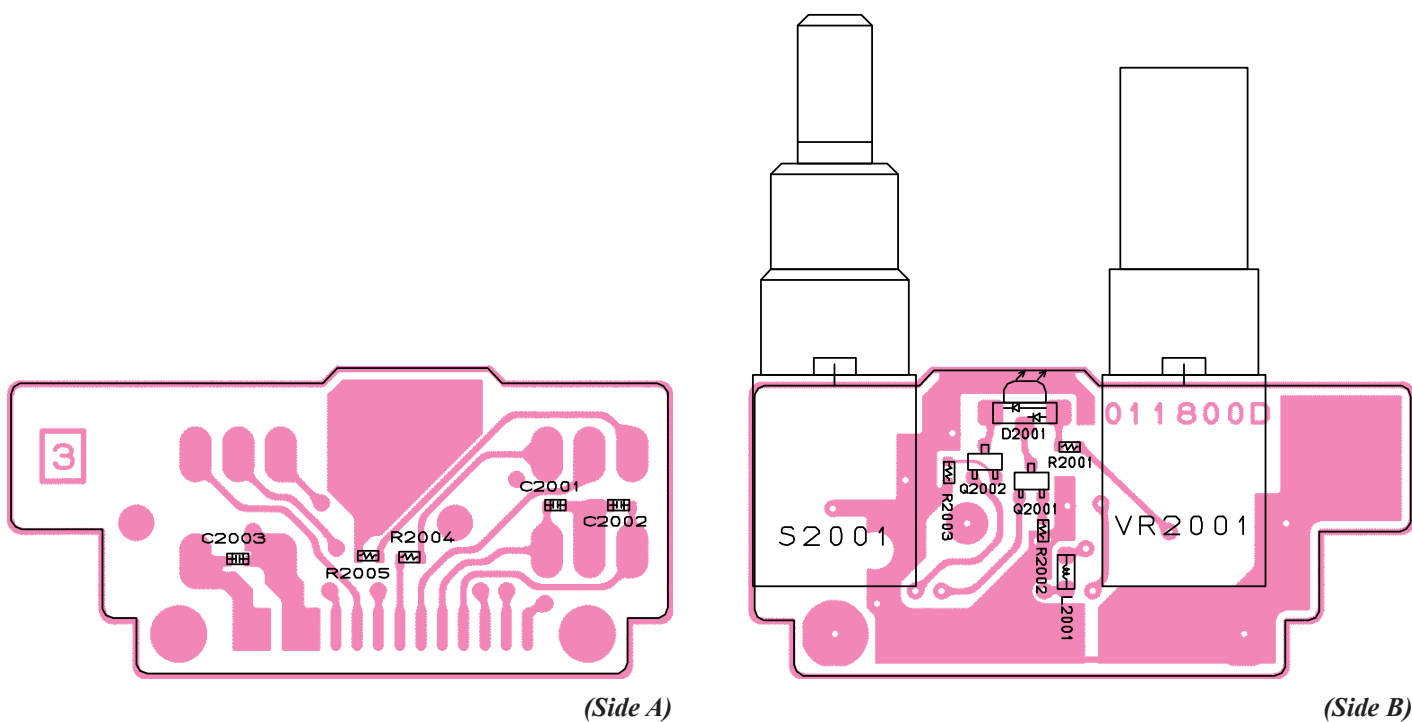
(Side B)





# VR Unit (Lot. 130 ~)

## Parts Layout



## Parts List

| REF    | DESCRIPTION           | VALUE    | V/W   | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|-----------------------|----------|-------|------|--------------------|-----------|-------|------|------|---------|
|        | Printed Circuit Board |          |       |      | AH017M000          | FR011800C |       | 1-   |      |         |
|        | Printed Circuit Board |          |       |      | AH017M000          | FR011800D |       | 130- |      |         |
| C 2001 | CHIP CAP.             | 0.0047uF | 25V   | B    | GRM36B472K25PT     | K22148830 |       | 1-   | A    | B1      |
| C 2001 | CHIP CAP.             | 0.0047uF | 50V   | B    | GRM155B11H472KA01D | K22178838 |       | 57-  | A    | B1      |
| C 2002 | CHIP CAP.             | 0.0047uF | 25V   | B    | GRM36B472K25PT     | K22148830 |       | 1-   | A    | B1      |
| C 2002 | CHIP CAP.             | 0.0047uF | 50V   | B    | GRM155B11H472KA01D | K22178838 |       | 57-  | A    | B1      |
| D 2001 | LED                   |          |       |      | BRPY1211F-TR       | G2070706  |       | 1-   | B    | a1      |
| L 2001 | M.RFC                 | 1uH      |       |      | LK1608 1R0K-T      | L1690687  |       | 1-   | B    | a1      |
| Q 2001 | TRANSISTOR            |          |       |      | 2SC4617 TL R       | G3346178R |       | 1-   | B    | a1      |
| Q 2002 | TRANSISTOR            |          |       |      | 2SC4617 TL R       | G3346178R |       | 1-   | B    | a1      |
| R 2001 | CHIPRES.              | 100      | 1/16W | 5%   | RMC1/16S 101JTH    | J24189013 |       | 1-   | B    | a1      |
| R 2001 | CHIPRES.              | 680      | 1/16W | 5%   | RMC1/16S 681JTH    | J24189023 |       | 1-   | B    | a1      |
| R 2003 | CHIPRES.              | 330      | 1/16W | 5%   | RMC1/16S 331JTH    | J24189019 |       | 1-   | B    | a1      |
| R 2004 | CHIPRES.              | 2.2k     | 1/16W | 5%   | RMC1/16S 222JTH    | J24189029 |       | 1-   | A    | A1      |
| R 2005 | CHIPRES.              | 1.5k     | 1/16W | 5%   | RMC1/16S 152JTH    | J24189027 |       | 130- | A    | A1      |
| S 2001 | ROTARY ENCODER        |          |       |      | TP76D96E20         | Q9000739  |       | 1-   | B    | a1      |
| VR2001 | POT.                  |          |       |      | TP76N00N 20KA/SW   | J60800236 |       | 1-   | B    | b1      |





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