



FM TRANSCEIVER

FT-2800M

Technical Supplement

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EH014N90A

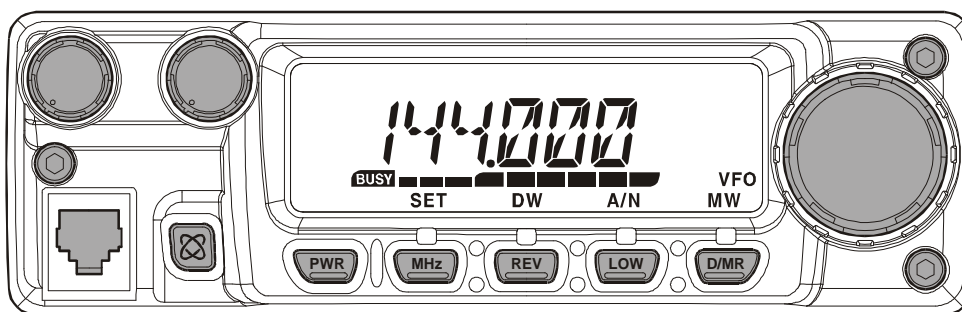
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Introduction

This manual provides technical information necessary for servicing the FT-2800M FM 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 circuit board in the Transceiver. Each side of is referred to by the type of the majority of components installed on that side (“leaded” or “chip-only”). In most cases one side has only chip components, 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 technical information in this manual to be correct, VERTEX STANDARD assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.

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Specifications

General

| | |
|---------------------------------------|---|
| Frequency Range: | Tx 144 - 146 MHz or 144 - 148 MHz Rx 144 - 146 MHz or 137 - 174 MHz |
| Channel Step: | 5/10/12.5/15/20/25/50/100 kHz |
| Standard Repeater Shift: | ±600 kHz |
| Frequency Stability: | Better than ±10 ppm [-4 °F to +140 °F (-20 °C to +60 °C)] |
| Modes of Emission: | F2/F3 |
| Antenna Impedance: | 50 Ohms, unbalanced |
| Supply voltage: | 13.8 V DC ±15%, negative ground |
| Current Consumption (typical): | Rx: less than 0.7 A, less than 0.3 A (squelched) Tx: 10 A (65 W)/7 A (25 W)/5 A (10 W)/4 A (5 W) |
| Operating Temperature Range: | -4° F to +140° F (-20° C to +60° C) |
| Case Size (WxHxD): | 6.3" x 2.0" x 7.3" (160 x 50 x 185 mm) (w/o knobs) |
| Weight (Approx.): | 4.0 lb (1.8 kg) |

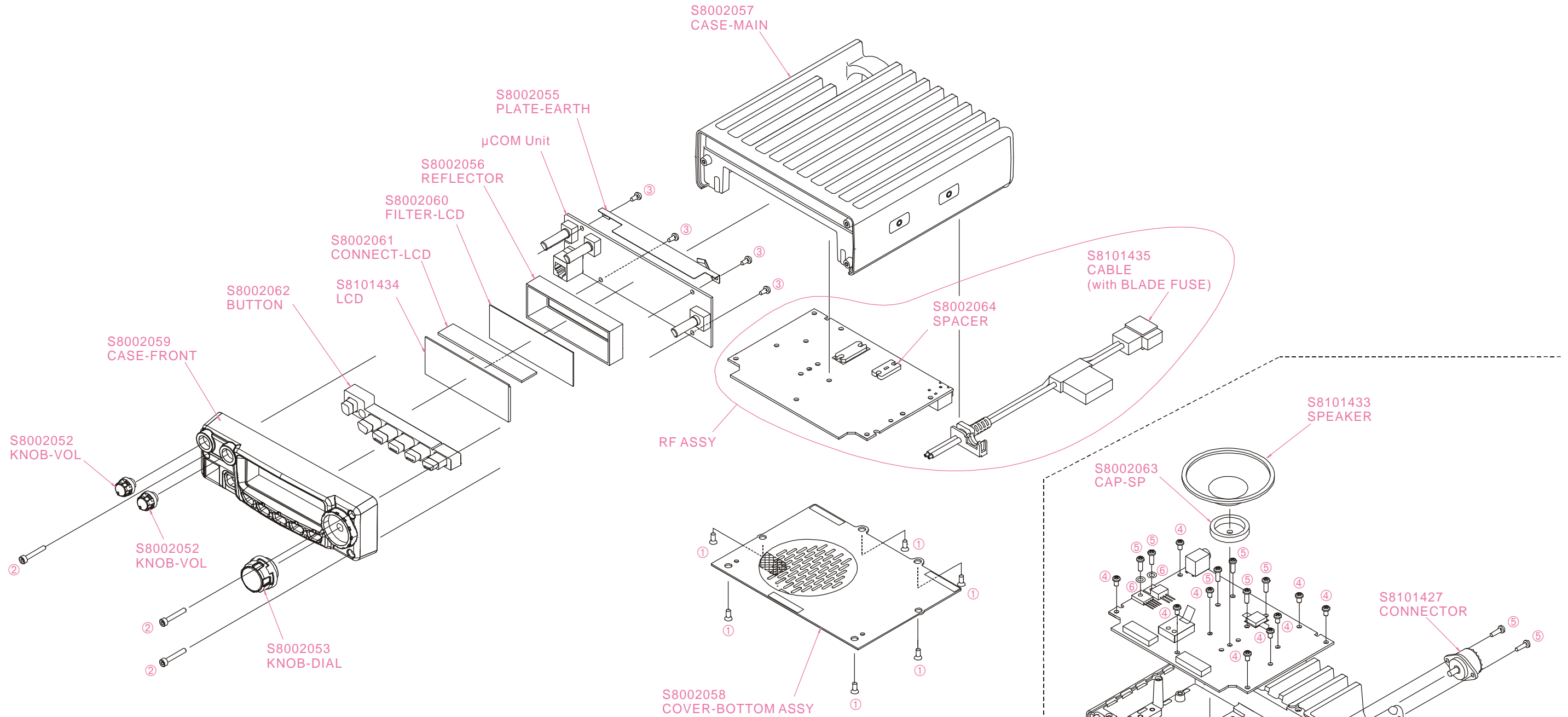
Transmitter

| | |
|------------------------------|--------------------|
| Output Power: | 65 W/25 W/10 W/5 W |
| Modulation Type: | Variable Reactance |
| Maximum Deviation: | ±5 kHz/±2.5 kHz |
| Spurious Radiation: | Better than -60 dB |
| Microphone Impedance: | 2000 Ohms |

Receiver

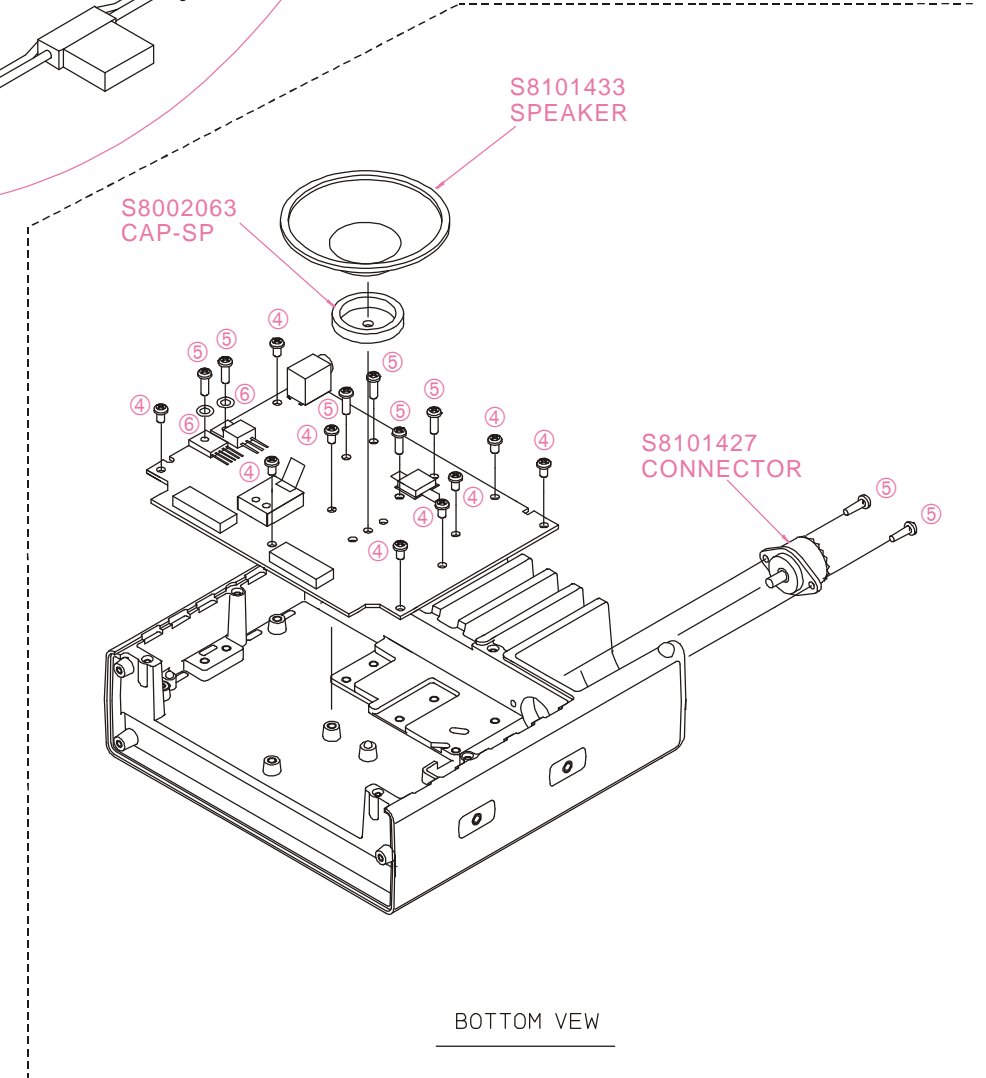
| | |
|--------------------------------------|-----------------------------------|
| Circuit Type: | Double Conversion Superheterodyne |
| IFs: | 21.7 MHz & 450 kHz |
| Sensitivity (for 12dB SINAD): | Better than 0.2 µV |
| Selectivity (-6/-60dB): | 12 kHz/28 kHz |
| IF Rejection: | Better than 70 dB |
| Image Rejection: | Better than 70 dB |
| Maximum AF Output: | 3 W into 4 Ohms @10 % THD |

Specifications subject to change without notice or obligation. Specifications guaranteed only within Amateur band



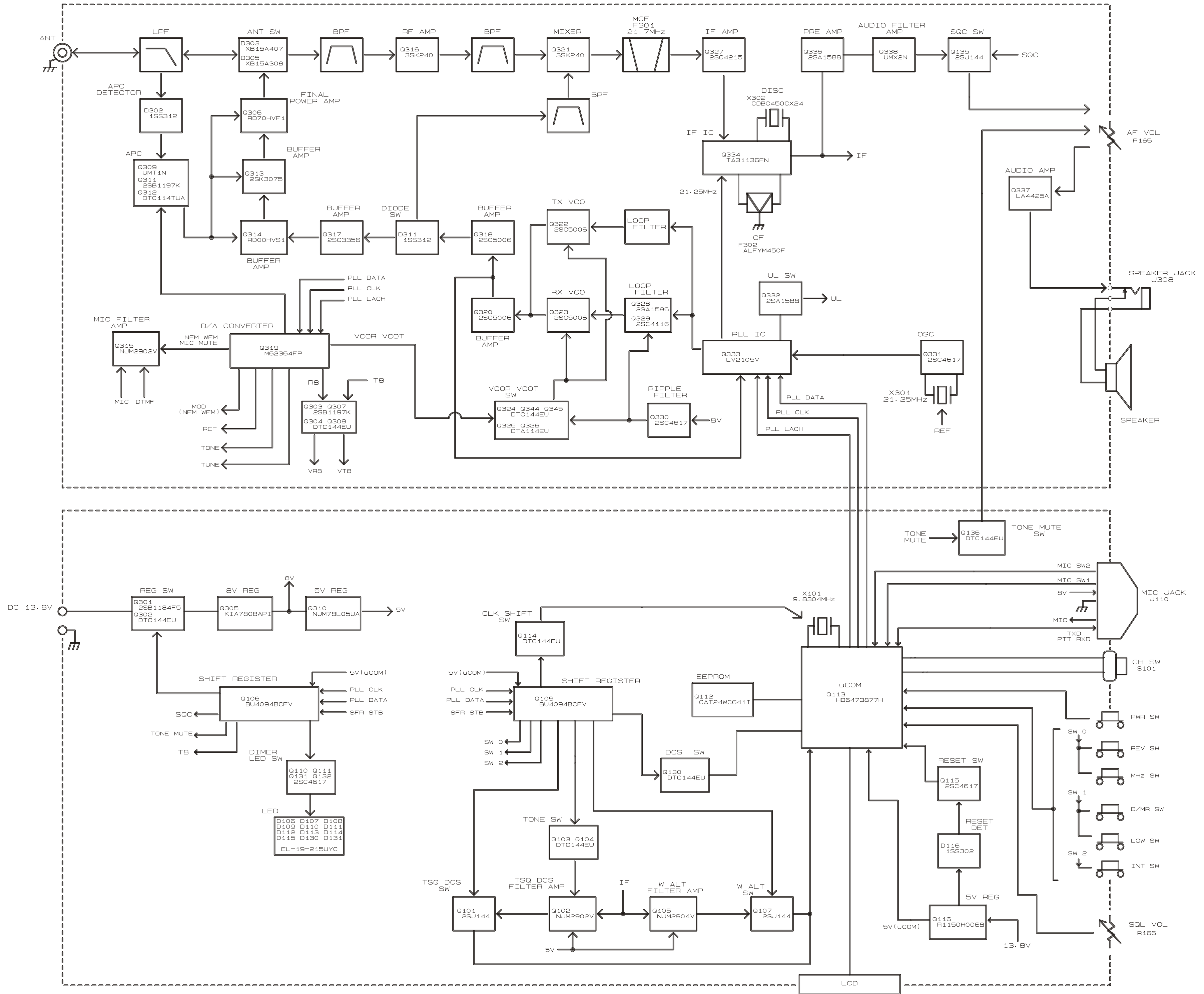
| Screw List | | | |
|------------|-----------|-----------------------|------|
| REF. | VXSTD P/N | Description | Qty. |
| ① | U30308007 | FLAT HEAD SCREW M3x8B | 6 |
| ② | S8002065 | BOLT CAP M3x20 BZC | 3 |
| ③ | S8002066 | TAPTITE SCREW 3x8ZC | 4 |
| ④ | U44306001 | TAPTITE SCREW M3x6 | 9 |
| ⑤ | S8002067 | TAPTITE SCREW 3x10ZC | 8 |
| ⑥ | S8002068 | WASHER-PLAIN | 2 |

| Accessories | |
|---------------------|-----------|
| Description | VXSTD P/N |
| FOOT | S8002050 |
| BRACKET | S8002051 |
| BLADE FUSE ATC 15A | Q0000075 |
| CABLE ND-A35-2500CB | S8101436 |
| MIC MH48A6J | AAA43X001 |



Exploded View & Miscellaneous Parts

Note



Block Diagram

Note

Circuit Description

Reception and transmission are switched by “RX” and “TX” lines from the microprocessor unit (MPU). The receiver uses double-conversion superheterodyne circuitry, with a 21.7 MHz 1st IF and 450 kHz 2nd IF. The 1st local, produced by a PLL synthesizer, yields the 21.7 MHz 1st IF.

The 2nd local uses a 21.250 MHz (21.7 MHz - 450 kHz) signal generated by a crystal oscillator. The 2nd mixer and other circuits use a custom IC to convert and amplify the 2nd IF, and detect FM to obtain demodulated signals.

During transmit, the PLL synthesizer oscillates at the desired frequency directly, for amplification to obtain RF power output. During transmit, voice modulation and CTCSS (or DCS) modulation are applied to this synthesizer. Transceiver functions, such as TX/RX control, PLL synthesizer settings, and channel programming, are controlled using the MPU.

Receiver

Incoming RF signals from the antenna connector are delivered to the RF Unit, and pass through a lowpass filter (LPF) consisting of coils L303, L305, and L307, capacitors C303, C309, C310, and C316, and antenna switching diodes **D305** and **D306** (Both **MA111**) for delivery to the receiver front end.

Signals within the frequency range of the transceiver are then passed through a varactor-tuned bandpass filter consisting of diodes **D308**, **D322**, **D310** and **D323** (all **HVC3508**), and coils L334, L335, L320 and L322 and associated circuitry before RF amplification by **Q316** (**3SK240**).

The amplified RF signal is then bandpass filtered again by varactor-tuned resonators consisting of diodes **D312**, **D324**, **D313** and **D325** (all **HVC3508**), and coils L336, L337, L325 and L327 and associated circuitry, to ensure pure in-band input to 1st mixer **Q321** (**3SK240**).

Buffered output from the VCO Unit is amplified by **Q318** (**2SC5006**) and lowpass-filtered by L339, C414, and C413, to provide a pure 1st local signal between 112.3 and 152.3 MHz, which is delivered to the 1st mixer.

The 21.7 MHz 1st mixer product then passes through dual monolithic crystal filter F301 (7.5 kHz BW), and is amplified by **Q327** (**2SC4215Y**) and delivered to the input of the FM IF subsystem IC **Q334** (**TA31136FN**).

This IC contains the 2nd mixer, 2nd local oscillator, limiter amplifier, FM detector, noise amplifier, S-meter amplifier and squelch gates.

The 2nd local in the IF-IC is produced from crystal **X302** (21.250 MHz), and the 1st IF is converted to 450 kHz by the 2nd mixer and stripped of unwanted components by ceramic filter **F302**. After passing through a limiter amplifier, the signal is demodulated by the FM detector.

Demodulated receive audio from the IF-IC is amplified by **Q336** (**2SA1588Y**) and **Q338** (**UMX2M**). After volume adjustment by the AF power amplifier **Q337** (**LA4425A**), the audio signal is passed to the optional headphone or 8-ohm loudspeaker.

PLL Synthesizer

The 1st local maintains stability from the PLL synthesizer by using a 21.250 MHz reference signal from crystal **X301**. PLL synthesizer IC **Q333** (**LV2105V**) consists of a prescaler, reference counter, swallow counter, programmable counter, a serial data input port to set these counters based on external data, a phase comparator, and a charge pump.

The PLL-IC divides the 21.250 MHz reference signal by 4,250 using the reference counter (5.0 kHz comparison frequency). The VCO output is divided by the prescaler, swallow counter and programmable counter. These two signals are compared by the phase comparator and applied to the charge pump. A voltage proportional to their phase difference is delivered to the low-pass filter circuit, then fed back to the VCO as a voltage with phase error, controlling and stabilizing the oscillating frequency. This synthesizer also operates as a modulator during transmit.

The RX VCO is comprised of **Q323** (**2SC5006**) and **D314/D326** (Both **1SV282**), and oscillates at 21.7 MHz during receive.

The TX VCO is comprised of **Q322** (**2SC5006**) and **D316/D327** (Both **1SV282**) and oscillates at the fundamental frequency during transmit, with direct frequency-modulation using varactor diode **D315** (**1SV214**).

The VCO output passes through buffer amplifier **Q320** (**2SC5005**), and a portion is fed to the PLL IC, and at the same time is amplified by **Q318** (**2SC5006**) to obtain stable output. Synthesizer output is fed to the 1st mixer by diode switch **D311** (**1SS321**) during receive, and to pre-drive amplifier **Q317** (**2SC3356**) for transmit.

The reference oscillator feeds the PLL synthesizer, and is composed of crystal **X301** (21.250 MHz) and transmit (DCS) modulation circuit **D317** (**HVC350B**).

The VCO DC supply is regulated by **Q330** (**2SC4617**).

Circuit Description

Transmitter

The speech signal from the microphone is delivered via the MIC Jack to the RF Unit; after passing through **Q315 (NJM2902V)** which consists of amplifier, pre-emphasis, limiter (IDC instantaneous deviation control) and lowpass filter, to **Q319 (M6364FP)** which is adjusted for optimum deviation level and delivered to the TX VCO **Q322**.

The speech signal from the microphone and CTCSS are FM modulated by the TX VCO of the synthesizer, while DCS audio is modulated by the reference frequency oscillator of the synthesizer.

Synthesizer output, after passing through diode switch **D311 (1SS321)**, is amplified by pre-drivers **Q317 (2SC3356)** and **Q314 (RD00HVS1)**, driver **Q313 (2SK3075)**, and power amplifier **Q305 (RD70HVS1)** to obtain full RF output. The RF energy then passes through antenna switch **D303 (XB15A407)** and a low-pass filter circuit and finally to the antenna connector.

RF output power from the final amplifier is sampled by

C318 and C324 and is rectified by **D302 (1SS321)**.

The resulting DC is fed through Automatic Power Controller **Q309 (UMT1N)**, **Q312 (DTC114)**, and **Q311 (2SB1197)** to transmitter RF amplifier **Q305** and is used to provide control of the power output.

Generation of spurious products by the transmitter is minimized by the fundamental carrier frequency being equal to the final transmitting frequency, modulated directly in the transmit VCO.

Additionally harmonic suppression is provided by a low-pass filter consisting of L303, L305, C303, C309, C310, and C316, resulting in more than 60 dB of harmonic suppression prior to delivery of the RF

Introduction and Precautions

The FT-2800M has been carefully aligned at the factory for the specified performance at the 144 MHz amateur band. Realignment should therefore not be necessary except in the event of a component failure. All component replacement and service should be performed only by an authorized Vertex Standard representative, or the warranty policy may be voided.

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

We recommend that servicing be performed only by authorized Vertex Standard service technicians who are experienced with the circuitry and fully equipped for repair and alignment. Therefore, if a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Authorized Vertex Standard service technicians realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing any faulty components.

Those who do undertake any of the following alignments are cautioned to proceed at their own risk. Problems caused by unauthorized attempts at realignment are not covered by the warranty policy. Also, Vertex Standard must reserve the right to change circuits and alignment procedures in the interest of improved performance, without notifying owners.

Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and the need for realignment determined to be absolutely necessary.

Required Test Equipment

The following test equipment (and thorough familiarity with its correct use) is necessary for complete realignment. Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy. While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards. Do not attempt to perform only a single step unless it is clearly isolated electrically from all other steps. Have all test equipment ready before beginning, and follow all of the steps in a section in the order presented.

- Regulated DC Power Supply: adjustable from 10 to 17 VDC, 15 A
- RF Signal Generator with calibrated output level at 200 MHz
- Frequency Counter: ± 0.1 ppm accuracy at 200 MHz
- AF Signal Generator
- SINAD Meter
- Deviation Meter (linear detector)
- AF Milivoltmeter
- AF Dummy Load: 8-Ohm, 5 W
- DC Voltmeter: high impedance
- Inline Wattmeter with 5% accuracy at 200 MHz
- 50-Ohm non-reactive Dummy Load:
- 100 watts at 200 MHz
- VHF Sampling Coupler

Set up the test equipment as shown for the transceiver alignment, and apply 13.8 VDC power to the transceiver.

Alignment Preparation & Precautions

A dummy load and inline wattmeter must be connected to the antenna jack in all procedures that call for transmission, except where specified otherwise. Correct alignment is not possible with an antenna. After completing one step, read the following step to determine whether the same test equipment will be required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

Correct alignment requires that the ambient temperature in the repair shop be the same as that of the transceiver and test equipment, and that this temperature be held constant between 68 °C and 86 °F (20 °C ~ 30 °C). When the transceiver is brought into the shop from hot or cold air it should be allowed some time for thermal equalization with the environment before alignment. If 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.

Notes: Signal levels in dB referred to in alignment are based on 0 dB μ = 0.5 μ V.

Alignment

Entering the Alignment mode

Alignment of the FT-2800M 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 [LOW] key and [D/MR] key while turning the radio on. Once the radio is on, release these two keys.
2. Press and hold the [MHz] key for one second to activate the “Set” (Menu) mode.
3. Rotate the DIAL knob to select “35 D/ASMT,” then press the [MHz] key.
4. You will now note the appearance of “REF” on the display, this signifies that the transceiver is now in the “Alignment mode.”

PLL Reference Frequency (REF)

1. Tune the transceiver to 146.000 MHz.
2. Set the transceiver to Alignment mode, then rotate the DIAL knob to set the Alignment parameter to “REF.”
3. Press the PTT switch to activate the transmitter, and press the [REV] or [D/MR] key, as needed, so that the counter frequency reading is 146.000 MHz.
4. Press and hold the [LOW] key for one second to save the new setting.
5. Press and hold the [MHz] key for one second to exit to the normal operation.

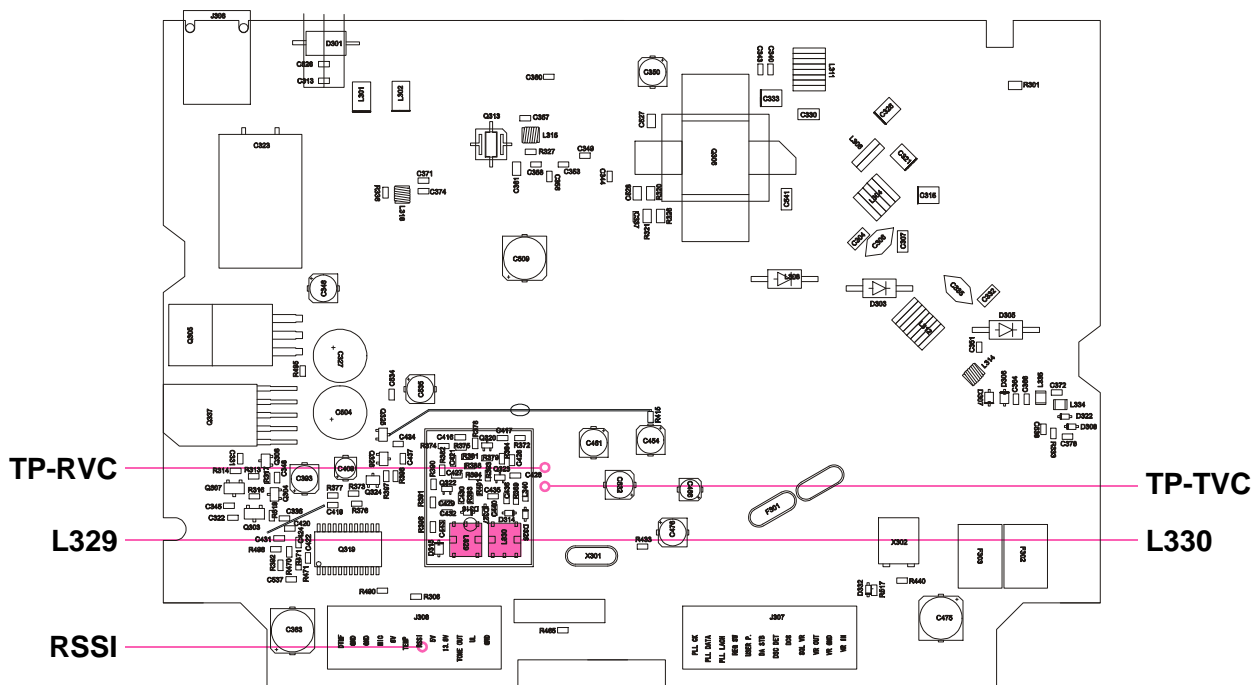
PLL VCO

1. Connect the DC voltmeter to TP-RVC on the RF Unit.
2. Tune the frequency to 146.000 MHz.
3. Adjust L330 on the RF Unit for 1.5 V on the DC voltmeter.
4. Connect the DC voltmeter to TP-TVC on the RF Unit.
5. Press the PTT switch to activate the transmitter, and adjust L329 on the RF Unit for 1.3 V on the DC voltmeter.

RF Front-end Tuning

(TUN137/TUN146/TUN160/TUN173)

1. Connect the DC voltmeter to the Test Point (RSSI: Pin 6 of J307) on the RF Unit.
2. Tune the transceiver to 137.050 MHz.
3. Set the transceiver to Alignment mode, then rotate the DIAL knob to set the Alignment parameter to “TUN137.”
4. Inject a 137.050 MHz signal at a level of $-5 \text{ dB}\mu$ (with 1 kHz modulation @ $\pm 3.5 \text{ kHz}$ deviation) from the RF Signal Generator.
5. Press the [REV] or [D/MR] key for maximum deflection of the DC voltmeter.
6. Press and hold the [LOW] key for one second to save the new setting, then press and hold the [MHz] key for one second to exit to the normal operation.
7. Tune the transceiver to 146.050 MHz.
8. Set the transceiver to Alignment mode, then rotate the DIAL knob to set the Alignment parameter to “TUN146.”



RF UNIT ALIGNMNT POINTS

- Inject a 146.050 MHz signal at a level of $-5\text{ dB}\mu$ (with 1 kHz modulation @ $\pm 3.5\text{ kHz}$ deviation) from the RF Signal Generator.
- Press the [REV] or [D/MR] key for maximum deflection of the DC voltmeter and maximum deflection of the SINAD meter.
- Press and hold the [LOW] key for one second to save the new setting, then press and hold the [MHz] key for one second to exit to the normal operation.
- Tune the transceiver to 160.050 MHz.
- Set the transceiver to Alignment mode, then rotate the **DIAL** knob to set the Alignment parameter to “TUN160.”
- Inject a 160.050 MHz signal at a level of $-5\text{ dB}\mu$ (with 1 kHz modulation @ $\pm 3.5\text{ kHz}$ deviation) from the RF Signal Generator.
- Press the [REV] or [D/MR] key for maximum deflection of the DC voltmeter at the higher side of the bandpass filter peaks.
- Press and hold the [LOW] key for one second to save the new setting, then press and hold the [MHz] key for one second to exit to the normal operation.
- Tune the transceiver to 173.050 MHz.
- Set the transceiver to Alignment mode, then rotate the **DIAL** knob to set the Alignment parameter to “TUN173.”
- Inject a 173.050 MHz signal at a level of $-5\text{ dB}\mu$ (with 1 kHz modulation @ $\pm 3.5\text{ kHz}$ deviation) from the RF Signal Generator.
- Press the [REV] or [D/MR] key for maximum deflection of the DC voltmeter at the higher side of the bandpass filter peaks.
- Press and hold the [LOW] key for one second to save the new setting, then press and hold the [MHz] key for one second to exit to the normal operation.

S-Meter Sensitivity (SMTL 10/SMTL 2)

- Set the transceiver to Alignment mode, then rotate the **DIAL** knob to set the Alignment parameter to “SMTL 10.”
- Inject a 146.050 MHz signal at a level of $+25\text{ dB}\mu$ (with 1 kHz modulation @ $\pm 3.5\text{ kHz}$ deviation) from the RF Signal Generator.
- Press and hold the [LOW] key for one second to save the new setting.
- Rotate the **DIAL** knob one click to clockwise to set the Alignment parameter to “SMTL 2.”
- Reduce the RF Signal Generator output level to $-5\text{ dB}\mu$.
- Press and hold the [LOW] key for one second to save the new setting.

- Press and hold the [MHz] key for one second to exit to the normal operation.

TX Power Output

(TXPW H/TXPW M/TXPW L2/TXPW L1)

- Tune the transceiver to 146.000 MHz, and set the Transmitter Power Level to “HIGH.”
- Set the transceiver to Alignment mode, then rotate the **DIAL** knob to set the Alignment parameter to “TXPW H.”
- Press the **PTT** switch to activate the transmitter, and press the [REV] or [D/MR] key for 65 Watts on the wattmeter, and confirm that supply current remains below 12.5 A.
- Press and hold the [LOW] key for one second to save the new setting, then rotate the **DIAL** knob one click to clockwise to set the Alignment parameter to “TXPW M.”
- Press the **PTT** switch to activate the transmitter, and press the [REV] or [D/MR] key for 25 Watts on the wattmeter, and confirm that supply current remains below 7.5 A.
- Press and hold the [LOW] key for one second to save the new setting, then rotate the **DIAL** knob one click to clockwise to set the Alignment parameter to “TXPWL2.”
- Press the **PTT** switch to activate the transmitter, and press the [REV] or [D/MR] key for 10 Watts on the wattmeter, and confirm that supply current remains below 5 A.
- Press and hold the [LOW] key for one second to save the new setting, then rotate the **DIAL** knob one click to clockwise to set the Alignment parameter to “TXPWL1.”
- Press the **PTT** switch to activate the transmitter, and press the [REV] or [D/MR] key for 5 Watts on the wattmeter, and confirm that supply current remains below 4 A.
- Press and hold the [LOW] key for one second to save

Alignment

the new setting, then press and hold the [**MHz**] key for one second to exit to the normal operation.

TX Deviation (MODWFM/MODNFM)

1. Tune the transceiver to 146.000 MHz.
2. Inject a 1 kHz audio tone at a level of 60 mV from the Audio Generator.
3. Set the transceiver to Alignment mode, then rotate the **DIAL** knob to set the Alignment parameter to “**MODWFM.**”
4. Press the **PTT** switch to activate the transmitter, and press the [**REV**] or [**D/MR**] key so that the deviation meter reading is 4.2 kHz.
5. Press and hold the [**LOW**] key for one second to save the new setting, then rotate the **DIAL** knob one click to clockwise to set the Alignment parameter to “**MODNFM.**”
6. Press the **PTT** switch to activate the transmitter, and press the [**REV**] or [**D/MR**] key so that the deviation meter reading is 2.1 kHz.
7. Press and hold the [**LOW**] key for one second to save

the new setting, then press and hold the [**MHz**] key for one second to exit to the normal operation.

CTCSS TX Deviation (TONE W/TONE N)

1. Tune the transceiver to 146.000 MHz.
2. Set the CTCSS tone to 100 Hz.
 - Press and hold the [**MHz**] key for one second to activate the “Set” (Menu) mode.
 - Rotate the **DIAL** knob to select “**27 SQ TNE.**”
 - Press the [**MHz**] key momentarily, then rotate the **DIAL** knob to select to 100.0 (Hz).
 - Press and hold the [**MHz**] key for one second to exit to the normal operation
3. Set the transceiver to Alignment mode, then rotate the **DIAL** knob to set the Alignment parameter to “**TONE W.**”
4. Press the **PTT** switch to activate the transmitter, and press the [**REV**] or [**D/MR**] key so that the deviation meter reading is 0.6 kHz.
5. Press and hold the [**LOW**] key for one second to save the new setting, then rotate the **DIAL** knob one click to counter clockwise to set the Alignment parameter to “**TONE N.**”
6. Press the **PTT** switch to activate the transmitter, and press the [**REV**] or [**D/MR**] key so that the deviation meter reading is 0.3 kHz.
7. Press and hold the [**LOW**] key for one second to save the new setting, then press and hold the [**MHz**] key for one second to exit to the normal operation.

μCOM Unit Parts List

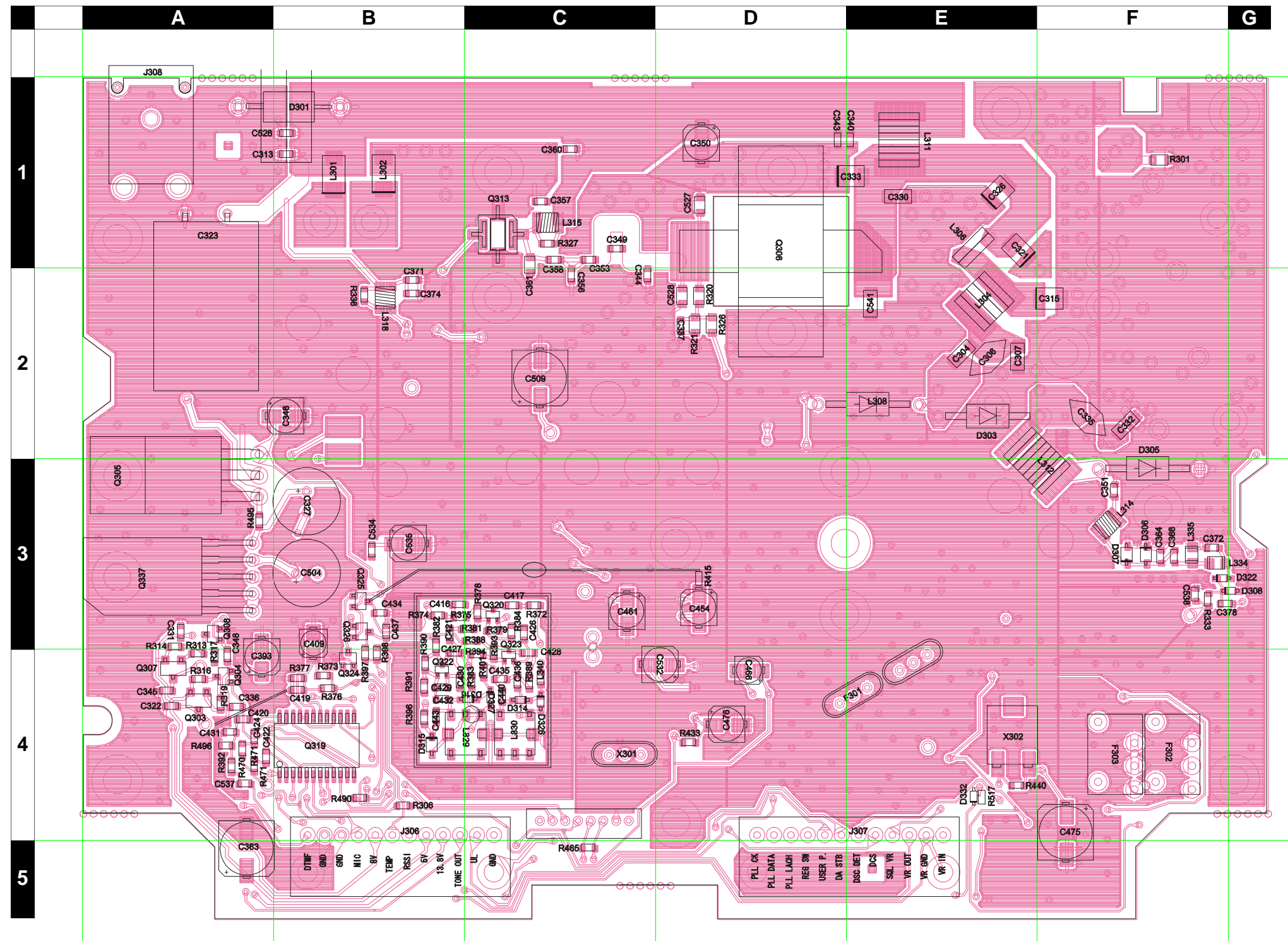
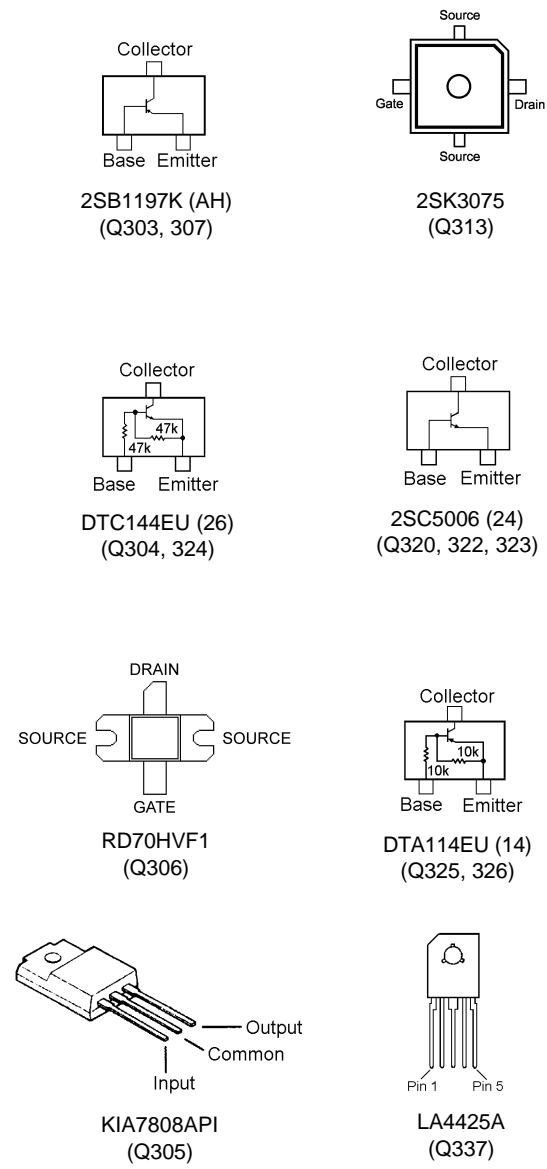
| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---------------------|-----------------|----------|------|------|----------------------|-----------|----------|-----|------|---------|
| PCB with Components | | | | | | S8101442 | A2 (USA) | | | |
| C101 | CHIP CAP. | 1uF | 10V | B | GRM188B11A105KA61D | S8101390 | | 1- | | |
| C102 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C103 | CHIP CAP. | 0.015uF | 50V | B | GRM188B11H221KD01D | S8101391 | | 1- | | |
| C104 | CHIP CAP. | 1uF | 6.3V | B | GRM39B105K6.3PT | K22084801 | | 1- | | |
| C105 | CHIP CAP. | 0.0027uF | 50V | B | GRM39B272K50PT | K22174829 | | 1- | | |
| C106 | CHIP CAP. | 390pF | 50V | B | GRM39B391K50PT | K22174804 | | 1- | | |
| C107 | CHIP CAP. | 0.0068uF | 50V | B | GRM39B682K50PT | K22174834 | | 1- | | |
| C108 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C109 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C110 | CHIP CAP. | 680pF | 50V | B | GRM39B681K50PT | K22174807 | | 1- | | |
| C111 | CHIP CAP. | 0.015uF | 50V | B | GRM188B11H221KD01D | S8101391 | | 1- | | |
| C112 | AL.ELECTRO.CAP. | 100uF | 6.3V | | MV6.3VC100MH63 | S8101399 | | 1- | | |
| C113 | CHIP CAP. | 0.0068uF | 50V | B | GRM39B682K50PT | K22174834 | | 1- | | |
| C114 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C115 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C116 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C117 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C118 | CHIP CAP. | 0.027uF | 16V | R | GRM39R273K16PT | K22124802 | | 1- | | |
| C119 | AL.ELECTRO.CAP. | 10uF | 16V | | MV16VC10MD55 | S8101398 | | 1- | | |
| C120 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C121 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C125 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C126 | CHIP CAP. | 18pF | 50V | CH | GRM39CH180J50PT | K22174217 | | 1- | | |
| C128 | CHIP CAP. | 6pF | 50V | CH | GRM39CH060D50PT | K22174207 | | 1- | | |
| C129 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C130 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C131 | CHIP CAP. | 1uF | 6.3V | B | GRM39B105K6.3PT | K22084801 | | 1- | | |
| C132 | CHIP CAP. | 1uF | 6.3V | B | GRM39B105K6.3PT | K22084801 | | 1- | | |
| C133 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C134 | AL.ELECTRO.CAP. | 100uF | 6.3V | | MV6.3VC100MH63 | S8101399 | | 1- | | |
| C135 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C136 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C137 | AL.ELECTRO.CAP. | 100uF | 16V | | UWX1C101MCR1GB | S8101395 | | 1- | | |
| C138 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C150 | CHIP TA.CAP. | 10uF | 6.3V | | TEMSVA0J106M-8R | K78080027 | | 1- | | |
| C152 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C155 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C158 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C159 | CHIP CAP. | 0.0047uF | 50V | B | GRM39B472K50PT | K22174833 | | 1- | | |
| C160 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C161 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C162 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C163 | CHIP CAP. | 56pF | 50V | CH | GRM39CH560J50PT | K22174229 | | 1- | | |
| C164 | CHIP CAP. | 1uF | 10V | B | GRM188B11A105KA61D | S8101390 | | 1- | | |
| C165 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C167 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| D101 | DIODE | | | | 1SS302 TE85R | G2070088 | | 1- | B | e1 |
| D102 | DIODE | | | | 1SS302 TE85R | G2070088 | | 1- | B | f1 |
| D103 | DIODE | | | | MA111-(TX) | G2070338 | | 1- | B | b1 |
| D104 | DIODE | | | | DAP202U T106 | G2070160 | | 1- | B | a1 |
| D105 | DIODE | | | | DAP202U T106 | G2070160 | | 1- | B | a1 |
| D106 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | F2 |
| D107 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | D2 |
| D108 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | C2 |
| D109 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | F2 |
| D110 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | D1 |
| D111 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | C1 |
| D112 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | C1 |
| D113 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | E1 |
| D114 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | E1 |
| D115 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | D1 |
| D116 | DIODE | | | | 1SS302 TE85R | G2070088 | | 1- | B | d2 |
| D117 | DIODE | | | | MA111-(TX) | G2070338 | | 1- | B | c2 |
| D118 | DIODE | | | | 1SS302 TE85R | G2070088 | | 1- | B | d1 |
| D130 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | E2 |
| D131 | LED | | | | 19-215UYC/S530A2/TR8 | S8101421 | | 1- | A | D2 |
| D135 | DIODE | | | | 1SS400 TE61 | G2070634 | | 1- | B | b1 |
| J101 | CONNECTOR | | | | TKC-M12P-B1 | S8101428 | | 1- | | |
| J109 | CONNECTOR | | | | TKC-M12P-B1 | S8101428 | | 1- | | |
| J110 | CONNECTOR (MIC) | | | | MJD0606KX06 | S8101431 | | 1- | | |
| L101 | M.RFC | 4.7uH | | | LK1608 4R7K-T | L1690688 | | 1- | | |
| L102 | M.RFC | 4.7uH | | | LK1608 4R7K-T | L1690688 | | 1- | | |
| L103 | M.RFC | 4.7uH | | | LK1608 4R7K-T | L1690688 | | 1- | | |
| L105 | M.RFC | 4.7uH | | | LK1608 4R7K-T | L1690688 | | 1- | | |
| L106 | M.RFC | 4.7uH | | | LK1608 4R7K-T | L1690688 | | 1- | | |

μCOM Unit Parts List

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|------|-------------|-------|-------|------|---------------------|-----------|----------|-----|------|---------|
| Q101 | TRANSISTOR | | | | 2SJ144Y TE85R | G3701447Y | | 1- | B | e1 |
| Q102 | IC | | | | NJM2902V-TE1 | G1091679 | | 1- | B | e1 |
| Q103 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | B | e1 |
| Q104 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | B | e1 |
| Q105 | IC | | | | NJM2904V-TE1 | G1091677 | | 1- | B | f1 |
| Q106 | IC | | | | BU4094BCFV-E2 | G1093527 | | 1- | B | b1 |
| Q107 | TRANSISTOR | | | | 2SJ144Y TE85R | G3701447Y | | 1- | B | f1 |
| Q109 | IC | | | | BU4094BCFV-E2 | G1093527 | | 1- | B | a1 |
| Q110 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | a1 |
| Q111 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | b1 |
| Q112 | IC | | | | CAT24WC64JI-TE13 | S8101423 | | 1- | B | d1 |
| Q113 | IC | | | | HD6473877H R0759 | S8101437 | A2 (USA) | 1- | B | c1 |
| Q115 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | d2 |
| Q116 | IC | | | | R1150H006B-T1 | S8101422 | | 1- | B | d2 |
| Q130 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | B | d1 |
| Q131 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | b1 |
| Q132 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | b1 |
| Q135 | TRANSISTOR | | | | 2SJ144Y TE85R | G3701447Y | | 1- | B | e1 |
| Q136 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | B | f1 |
| Q137 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | B | c2 |
| R101 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R102 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16 153JATP | J24185153 | | 1- | | |
| R104 | CHIP RES. | 270k | 1/16W | 5% | RMC1/16 274JATP | J24185274 | | 1- | | |
| R105 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R106 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16 683JATP | J24185683 | | 1- | | |
| R107 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16 394JATP | J24185394 | | 1- | | |
| R108 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R109 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R110 | CHIP RES. | 8.2k | 1/16W | 5% | RMC1/16 822JATP | J24185822 | | 1- | | |
| R111 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16 683JATP | J24185683 | | 1- | | |
| R112 | CHIP RES. | 27k | 1/16W | 5% | RMC1/16 273JATP | J24185273 | | 1- | | |
| R113 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16 394JATP | J24185394 | | 1- | | |
| R114 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16 683JATP | J24185683 | | 1- | | |
| R115 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16 394JATP | J24185394 | | 1- | | |
| R116 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16 394JATP | J24185394 | | 1- | | |
| R119 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16 333JATP | J24185333 | | 1- | | |
| R120 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16 153JATP | J24185153 | | 1- | | |
| R121 | CHIP RES. | 18k | 1/16W | 5% | RMC1/16 183JATP | J24185183 | | 1- | | |
| R122 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16 153JATP | J24185153 | | 1- | | |
| R123 | CHIP RES. | 22K | 1/16W | 5% | RMC1/16 223JATP | J24185223 | | 1- | | |
| R124 | CHIP RES. | 27k | 1/16W | 5% | RMC1/16 273JATP | J24185273 | | 1- | | |
| R126 | CHIP RES. | 27k | 1/16W | 5% | RMC1/16 273JATP | J24185273 | | 1- | | |
| R128 | CHIP RES. | 39k | 1/16W | 5% | RMC1/16 393JATP | J24185393 | | 1- | | |
| R131 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16 100JATP | J24185100 | | 1- | | |
| R132 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R133 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16 100JATP | J24185100 | | 1- | | |
| R134 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R135 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R136 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R137 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R138 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R139 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R140 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R141 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R142 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16 105JATP | J24185105 | | 1- | | |
| R143 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R144 | CHIP RES. | 100k | 1/16W | 1% | RMC1/16 104FTP | J24183104 | | 1- | | |
| R145 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R146 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16 153JATP | J24185153 | | 1- | | |
| R147 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R148 | CHIP RES. | 22K | 1/16W | 5% | RMC1/16 223JATP | J24185223 | | 1- | | |
| R149 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R150 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16 394JATP | J24185394 | | 1- | | |
| R151 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R152 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R153 | CHIP RES. | 100k | 1/16W | 1% | RMC1/16 104FTP | J24183104 | | 1- | | |
| R158 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R160 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R161 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R162 | CHIP RES. | 100k | 1/16W | 1% | RMC1/16 104FTP | J24183104 | | 1- | | |
| R163 | CHIP RES. | 100k | 1/16W | 1% | RMC1/16 104FTP | J24183104 | | 1- | | |
| R164 | CHIP RES. | 100k | 1/16W | 1% | RMC1/16 104FTP | J24183104 | | 1- | | |
| R165 | VR | 20k | | | XV09211NPV30F15A20K | S8101386 | | 1- | | |
| R166 | VR | 100k | | | XV09211NPV30F1B100K | S8101387 | | 1- | | |
| R167 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R180 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |

μCOM Unit Parts List

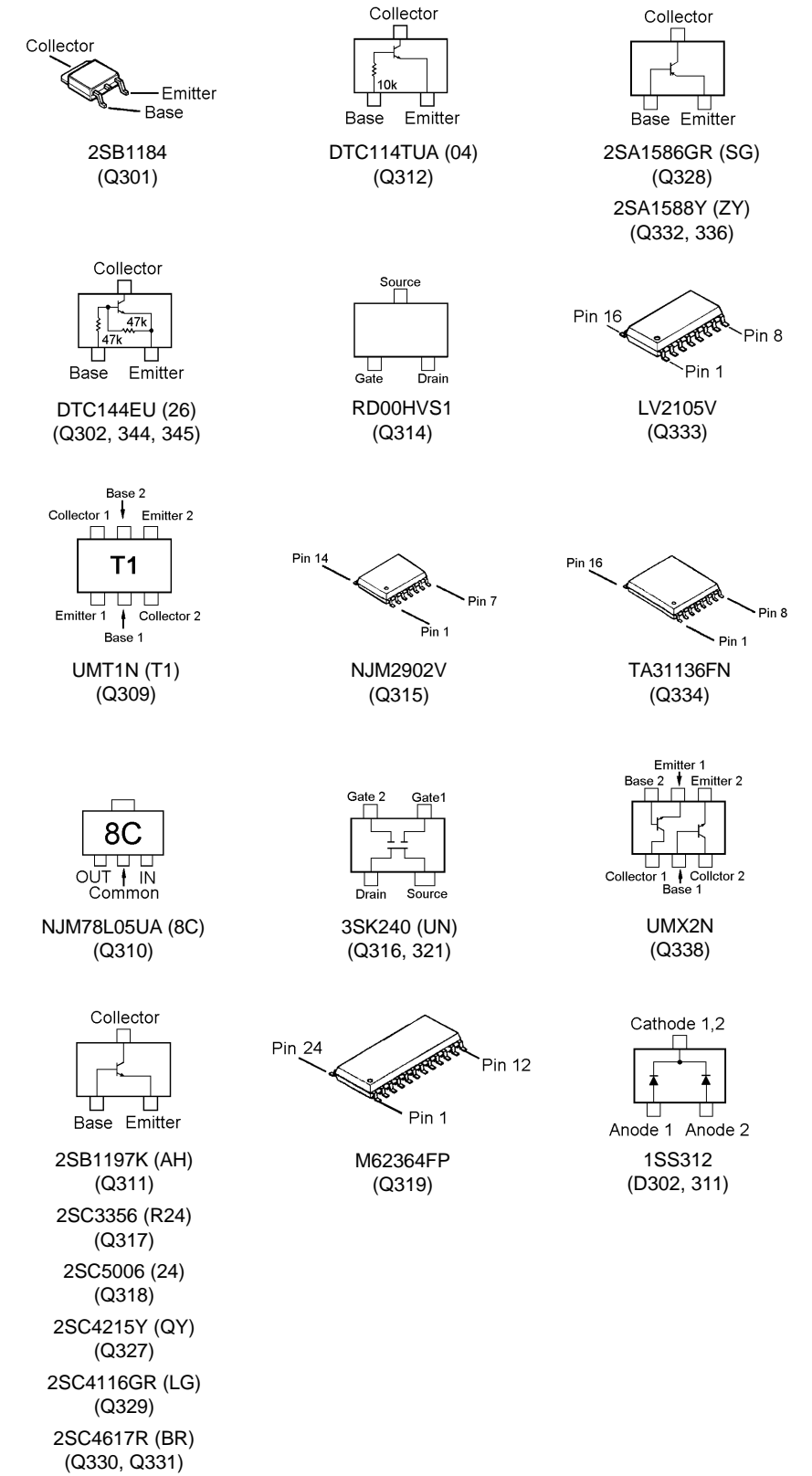
Note



RF Unit Parts Layout



Side B



RF Unit Parts List

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---------------------|-----------------|----------|------|------|--------------------|-----------|----------|-----|------|---------|
| PCB with Components | | | | | | S8101438 | A2 (USA) | | | |
| C301 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C302 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C303 | CHIP CAP. | 15pF | 500V | CH | GRM42-6CH150J500PT | K22271217 | | | | 1- |
| C305 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C306 | CERAMIC CAP. | 0.001uF | 500V | B | HM60SJYB102K500 | S8101392 | | | | 1- |
| C307 | CHIP CAP. | 15pF | 500V | CH | GRM42-6CH150J500PT | K22271217 | | | | 1- |
| C308 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C309 | CHIP CAP. | 27pF | 500V | CH | GRM42-6CH270J500PT | K22271223 | | | | 1- |
| C310 | CHIP CAP. | 3pF | 50V | CJ | GRM40CJ030C50PT | K22170204 | | | | 1- |
| C311 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C312 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C313 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C315 | FILM CAP. | 47pF | 500V | | UC232H0470J-T | K33279034 | | | | 1- |
| C316 | CHIP CAP. | 27pF | 500V | CH | GRM42-6CH270J500PT | K22271223 | | | | 1- |
| C317 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | | | 1- |
| C318 | CHIP CAP. | 1pF | 200V | CK | GRM40CK010C200PT | K22230208 | | | | 1- |
| C319 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C320 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C321 | FILM CAP. | 68pF | 500V | | UC232H0680J-T | K33279030 | | | | 1- |
| C322 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C323 | AL.ELECTRO.CAP. | 3300uF | 16V | | KMG16VB3300M | S8101401 | | | | 1- |
| C324 | CHIP CAP. | 1pF | 200V | CK | GRM40CK010C200PT | K22230208 | | | | 1- |
| C327 | AL.ELECTRO.CAP. | 470uF | 16V | | SMG16VB470M | S8101402 | | | | 1- |
| C328 | CHIP CAP. | 27pF | 500V | CH | GRM42-6CH270J500PT | K22271223 | | | | 1- |
| C329 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C330 | CHIP CAP. | 27pF | 500V | CH | GRM42-6CH270J500PT | K22271223 | | | | 1- |
| C331 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C332 | CHIP CAP. | 27pF | 500V | CH | GRM42-6CH270J500PT | K22271223 | | | | 1- |
| C333 | FILM CAP. | 120pF | 500V | | UC232H1200J-T | K33279049 | | | | 1- |
| C335 | CERAMIC CAP. | 0.001uF | 500V | B | HM60SJYB102K500 | S8101392 | | | | 1- |
| C336 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C337 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C338 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C339 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C340 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C341 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | | | 1- |
| C342 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C343 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | | | 1- |
| C344 | CHIP CAP. | 220pF | 50V | B | GRM39B221K50PT | K22174801 | | | | 1- |
| C345 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C346 | AL.ELECTRO.CAP. | 10uF | 16V | | MV16VC10MD55 | S8101398 | | | | 1- |
| C347 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C348 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C350 | AL.ELECTRO.CAP. | 4.7uF | 35V | | MVJ35VC4R7MD60 | S8101396 | | | | 1- |
| C351 | CHIP CAP. | 39pF | 50V | CH | GRM39CH390J50PT | K22174225 | | | | 1- |
| C352 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C353 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C354 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C355 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C357 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C359 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C360 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | | | 1- |
| C363 | AL.ELECTRO.CAP. | 100uF | 16V | | UWX1C101MCR1GB | S8101395 | | | | 1- |
| C364 | CHIP CAP. | 10pF | 50V | CH | GRM39CH100D50PT | K22174211 | | | | 1- |
| C365 | CHIP TA.CAP. | 4.7uF | 16V | | F931C475MAA | S8101394 | | | | 1- |
| C366 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | | | 1- |
| C367 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C368 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C370 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | | | 1- |
| C371 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C372 | CHIP CAP. | 2.5pF | 50V | CJ | GRM39CJ2R5C50PT | K22174259 | | | | 1- |
| C374 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | | | 1- |
| C375 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | | | 1- |
| C376 | CHIP CAP. | 0.0047uF | 50V | B | GRM39B472K50PT | K22174833 | | | | 1- |
| C377 | CHIP CAP. | 1uF | 10V | B | GRM188B11A105KA61D | S8101390 | | | | 1- |
| C378 | CHIP CAP. | 2pF | 50V | CK | GRM39CK020C50PT | K22174203 | | | | 1- |
| C379 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C380 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | | | 1- |
| C381 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | | | 1- |
| C382 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | | | 1- |
| C384 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C385 | CHIP CAP. | 2.5pF | 50V | CJ | GRM39CJ2R5C50PT | K22174259 | | | | 1- |
| C386 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C387 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | | | 1- |
| C388 | CHIP CAP. | 150pF | 50V | CH | GRM39CH151J50PT | K22174239 | | | | 1- |

RF Unit Parts List

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|------|-----------------|----------|------|------|--------------------|-----------|-------|-----|------|---------|
| C389 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C390 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C391 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C393 | AL.ELECTRO.CAP. | 10uF | 16V | | MV16VC10MD55 | S8101398 | | 1- | | |
| C394 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C395 | CHIP CAP. | 10pF | 50V | CH | GRM39CH100D50PT | K22174211 | | 1- | | |
| C396 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C397 | CHIP CAP. | 1uF | 6.3V | B | GRM39B105K6.3PT | K22084801 | | 1- | | |
| C398 | CHIP CAP. | 0.0047uF | 50V | B | GRM39B472K50PT | K22174833 | | 1- | | |
| C399 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C400 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C401 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C402 | CHIP CAP. | 0.0033uF | 50V | B | GRM39B332K50PT | K22174831 | | 1- | | |
| C403 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C404 | CHIP CAP. | 1.5pF | 50V | CK | GRM39CK1R5C50PT | K22174258 | | 1- | | |
| C405 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C407 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C408 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C409 | AL.ELECTRO.CAP. | 4.7uF | 25V | | MV25VC4R7MB55 | S8101397 | | 1- | | |
| C410 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C411 | CHIP CAP. | 2pF | 50V | CK | GRM39CK020C50PT | K22174203 | | 1- | | |
| C413 | CHIP CAP. | 22pF | 50V | CH | GRM39CH220J50PT | K22174219 | | 1- | | |
| C415 | CHIP CAP. | 2.5pF | 50V | CJ | GRM39CJ2R5C50PT | K22174259 | | 1- | | |
| C416 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C417 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C418 | CHIP CAP. | 22pF | 50V | CH | GRM39CH220J50PT | K22174219 | | 1- | | |
| C419 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C420 | CHIP CAP. | 1uF | 6.3V | B | GRM39B105K6.3PT | K22084801 | | 1- | | |
| C421 | CHIP CAP. | 3pF | 50V | CJ | GRM39CJ030C50PT | K22174204 | | 1- | | |
| C422 | CHIP CAP. | 0.0015uF | 50V | B | GRM39B152K50PT | K22174827 | | 1- | | |
| C423 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C424 | CHIP CAP. | 1uF | 6.3V | B | GRM39B105K6.3PT | K22084801 | | 1- | | |
| C425 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C426 | CHIP CAP. | 1pF | 50V | CK | GRM39CK010C50PT | K22174202 | | 1- | | |
| C427 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C428 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C429 | CHIP CAP. | 39pF | 50V | CH | GRM39CH390J50PT | K22174225 | | 1- | | |
| C430 | CHIP CAP. | 47pF | 50V | CH | GRM39CH470J50PT | K22174227 | | 1- | | |
| C431 | CHIP CAP. | 0.0047uF | 50V | B | GRM39B472K50PT | K22174833 | | 1- | | |
| C432 | CHIP CAP. | 33pF | 50V | CH | GRM39CH330J50PT | K22174223 | | 1- | | |
| C433 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C434 | CHIP CAP. | 1uF | 10V | B | GRM188B11A105KA61D | S8101390 | | 1- | | |
| C435 | CHIP CAP. | 39pF | 50V | CH | GRM39CH390J50PT | K22174225 | | 1- | | |
| C436 | CHIP CAP. | 47pF | 50V | CH | GRM39CH470J50PT | K22174227 | | 1- | | |
| C437 | CHIP CAP. | 1uF | 10V | B | GRM188B11A105KA61D | S8101390 | | 1- | | |
| C438 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C439 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C440 | CHIP CAP. | 33pF | 50V | CH | GRM39CH330J50PT | K22174223 | | 1- | | |
| C441 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C442 | CHIP CAP. | 1pF | 50V | CK | GRM39CK010C50PT | K22174202 | | 1- | | |
| C443 | CHIP CAP. | 1pF | 50V | CK | GRM39CK010C50PT | K22174202 | | 1- | | |
| C446 | CHIP CAP. | 10pF | 50V | CH | GRM39CH100D50PT | K22174211 | | 1- | | |
| C447 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C449 | CHIP TA.CAP. | 0.1uF | 35V | | TESVA1V104M1-8R | K78160025 | | 1- | | |
| C450 | CHIP CAP. | 47pF | 50V | CH | GRM39CH470J50PT | K22174227 | | 1- | | |
| C451 | CHIP TA.CAP. | 4.7uF | 10V | | TEMSVA1A475M-8R | K78100022 | | 1- | | |
| C452 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C453 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C454 | AL.ELECTRO.CAP. | 1uF | 50V | | UWT1H010MCR1GB | K78170005 | | 1- | | |
| C455 | CHIP CAP. | 12pF | 50V | CH | GRM39CH120J50PT | K22174213 | | 1- | | |
| C456 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C457 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C458 | CHIP CAP. | 150pF | 50V | CH | GRM39CH151J50PT | K22174239 | | 1- | | |
| C459 | CHIP CAP. | 150pF | 50V | CH | GRM39CH151J50PT | K22174239 | | 1- | | |
| C460 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C461 | AL.ELECTRO.CAP. | 10uF | 16V | | MV16VC10MD55 | S8101398 | | 1- | | |
| C462 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C463 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C464 | CHIP CAP. | 10pF | 50V | CH | GRM39CH100D50PT | K22174211 | | 1- | | |
| C465 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C466 | AL.ELECTRO.CAP. | 4.7uF | 25V | | MV25VC4R7MB55 | S8101397 | | 1- | | |
| C467 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C468 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C470 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C471 | CHIP CAP. | 10pF | 50V | CH | GRM39CH100D50PT | K22174211 | | 1- | | |
| C474 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |

RF Unit Parts List

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|------|-----------------|----------|------|------|--------------------|-----------|-------|-----|------|---------|
| C475 | AL.ELECTRO.CAP. | 47uF | 16V | | MV16VC47MF55 | S8101400 | | 1- | | |
| C476 | AL.ELECTRO.CAP. | 10uF | 16V | | MV16VC10MD55 | S8101398 | | 1- | | |
| C477 | CHIP CAP. | 10pF | 50V | CH | GRM39CH100D50PT | K22174211 | | 1- | | |
| C478 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C480 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C481 | CHIP CAP. | 10pF | 50V | CH | GRM39CH100D50PT | K22174211 | | 1- | | |
| C482 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C483 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C485 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C486 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C488 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | | |
| C489 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C490 | CHIP CAP. | 150pF | 50V | CH | GRM39CH151J50PT | K22174239 | | 1- | | |
| C491 | CHIP CAP. | 150pF | 50V | CH | GRM39CH151J50PT | K22174239 | | 1- | | |
| C493 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C494 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C495 | CHIP CAP. | 220pF | 50V | CH | GRM39CH221J50PT | K22174243 | | 1- | | |
| C496 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C497 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C498 | CHIP CAP. | 0.068uF | 16V | B | GRM39B683K16PT | K22124808 | | 1- | | |
| C499 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C500 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C501 | CHIP CAP. | 0.027uF | 16V | R | GRM39R273K16PT | K22124802 | | 1- | | |
| C502 | CHIP CAP. | 0.0022uF | 50V | B | GRM39B222K50PT | K22174822 | | 1- | | |
| C503 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C504 | AL.ELECTRO.CAP. | 470uF | 16V | | SMG16VB470M | S8101402 | | 1- | | |
| C506 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C507 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103K50PT | K22174823 | | 1- | | |
| C508 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C509 | AL.ELECTRO.CAP. | 47uF | 16V | | MV16VC47MF55 | S8101400 | | 1- | | |
| C510 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C511 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C513 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C514 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C515 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C516 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C517 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C519 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C520 | CHIP CAP. | 82pF | 50V | CH | GRM39CH820J50PT | K22174233 | | 1- | | |
| C521 | CHIP CAP. | 0.001uF | 50V | CH | GRM39CH102J50PT | S8101389 | | 1- | | |
| C522 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | | |
| C523 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C524 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C525 | CHIP CAP. | 0.01uF | 25V | B | GRM39B103K25PT | K22144803 | | 1- | | |
| C526 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C532 | AL.ELECTRO.CAP. | 10uF | 16V | | MV16VC10MD55 | S8101398 | | 1- | | |
| C533 | CHIP CAP. | 33pF | 50V | CH | GRM39CH330J50PT | K22174223 | | 1- | | |
| C534 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C535 | AL.ELECTRO.CAP. | 10uF | 16V | | MV16VC10MD55 | S8101398 | | 1- | | |
| C537 | CHIP CAP. | 1uF | 10V | B | GRM188B11A105KA61D | S8101390 | | 1- | | |
| C538 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C541 | CHIP CAP. | 27pF | 500V | CH | GRM42-6CH270J500PT | K22271223 | | 1- | | |
| C542 | CHIP CAP. | 56pF | 50V | CH | GRM39CH560J50PT | K22174229 | | 1- | | |
| C543 | CHIP CAP. | 2.5pF | 50V | CJ | GRM39CJ2R5C50PT | K22174259 | | 1- | | |
| C545 | CHIP TA.CAP. | 22uF | 6.3V | | F930J226MAA | S8101393 | | 1- | | |
| C546 | CHIP CAP. | 0.033uF | 50V | B | GRM40B333K50PT | K22170857 | | 1- | | |
| C547 | CHIP CAP. | 0.033uF | 16V | B | GRM39B333K16PT | K22124812 | | 1- | | |
| C551 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | | |
| C553 | CHIP CAP. | 0.22uF | 10V | B | GRM39B224K10PT | K22104801 | | 1- | | |
| D301 | SURGE ABSORBER | | | | P6KE18A | Q9000630 | | 1- | A | B1 |
| D302 | DIODE | | | | 1SS312-TE85R | S8101420 | | 1- | B | a2 |
| D303 | DIODE | | | | XB15A407A2GB | G2090741 | | 1- | A | E2 |
| D305 | DIODE | | | | XB15A308A2GB | G2090742 | | 1- | A | F3 |
| D306 | DIODE | | | | MA111-(TX) | G2070338 | | 1- | A | F3 |
| D307 | DIODE | | | | MA111-(TX) | G2070338 | | 1- | A | F3 |
| D308 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | A | F3 |
| D309 | DIODE | | | | MA111-(TX) | G2070338 | | 1- | B | e4 |
| D310 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | a3 |
| D311 | DIODE | | | | 1SS312-TE85R | S8101420 | | 1- | B | d3 |
| D312 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | b3 |
| D313 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | | |
| D314 | DIODE | | | | 1SV282(TPH3) | G2070778 | | 1- | A | C4 |
| D315 | DIODE | | | | 1SV214 TPH | G2070356 | | 1- | A | B4 |
| D316 | DIODE | | | | 1SV282(TPH3) | G2070778 | | 1- | A | C4 |
| D317 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | d4 |
| D318 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | d4 |

RF Unit Parts List

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|------|--------------------|---------|-----|------|---------------------|-----------|-------|-----|------|---------|
| D319 | DIODE | | | | UDZS TE-17 5.6B | G2070910 | | 1- | B | b4 |
| D322 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | A | F3 |
| D323 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | a3 |
| D324 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | b3 |
| D325 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | b3 |
| D326 | DIODE | | | | 1SV282(TPH3) | G2070778 | | 1- | A | C4 |
| D327 | DIODE | | | | 1SV282(TPH3) | G2070778 | | 1- | A | C4 |
| D328 | DIODE | | | | MA111-(TX) | G2070338 | | 1- | B | c4 |
| D329 | DIODE | | | | MA111-(TX) | G2070338 | | 1- | B | c4 |
| D331 | DIODE | | | | MA111-(TX) | G2070338 | | 1- | B | f4 |
| D332 | DIODE | | | | 1SS400 TE61 | G2070634 | | 1- | A | E4 |
| F301 | XTAL FILTER | | | | UM-5 21.7MHz | S8101426 | | 1- | | |
| F302 | CERAMIC FILTER | | | | ALFYM450F=K | H3900531 | | 1- | | |
| J306 | CONNECTOR | | | | TKC-M12P-A1 | S8101429 | | 1- | | |
| J307 | CONNECTOR | | | | TKC-M12P-A1 | S8101429 | | 1- | | |
| J308 | CONNECTOR (EXT SP) | | | | JY-3564 | S8101430 | | 1- | | |
| J309 | CONNECTOR | | | | B8B-ZR | P0090650 | | 1- | | |
| L301 | FERRITE BEADS | | | | SMB304729 | L9190094 | | 1- | | |
| L302 | FERRITE BEADS | | | | SMB304729 | L9190094 | | 1- | | |
| L303 | COIL | | | | 1.0PEW3.0D6.0T_E2 | S8101405 | | 1- | | |
| L304 | COIL | | | | 1.0PEW3.0D5.0T_E2 | S8101406 | | 1- | | |
| L305 | COIL | | | | 1.0PEW3.0D6.0T_E2 | S8101405 | | 1- | | |
| L306 | COIL | | | | 1.0PEW2.5D1.5T | S8101408 | | 1- | | |
| L307 | COIL | | | | 1.0PEW3.0D6.0T_E2 | S8101405 | | 1- | | |
| L308 | COIL | 4.7uH | | | LAL03KH4R7K | S8101413 | | 1- | | |
| L310 | COIL | | | | 1.0PEW3.0D6.0T_E2 | S8101405 | | 1- | | |
| L311 | COIL | | | | 0.8PEW3.2D7.0T_E2 | S8101407 | | 1- | | |
| L312 | COIL | | | | 0.8PEW3.2D7.0T_E2 | S8101407 | | 1- | | |
| L314 | COIL | | | | 0.35UEW1.6D8.0T_E2 | S8101404 | | 1- | | |
| L315 | COIL | | | | 0.35UEW1.6D8.0T_E2 | S8101404 | | 1- | | |
| L317 | M.RFC | 0.027uH | | | HK1608 27NJ-T | L1690521 | | 1- | | |
| L318 | COIL | | | | 0.35UEW1.6D6.0T_E-2 | S8101403 | | 1- | | |
| L319 | M.RFC | 0.047uH | | | HK1608 47NJ-T | L1690524 | | 1- | | |
| L320 | CHIP COIL | 0.039uH | | | LQN21A39NJ04 | L1690616 | | 1- | | |
| L322 | CHIP COIL | 0.082uH | | | LQN21A82NJ04 | L1690919 | | 1- | | |
| L323 | M.RFC | 0.1uH | | | HK1608 R10J-T | L1690528 | | 1- | | |
| L325 | CHIP COIL | 0.039uH | | | LQN21A39NJ04 | L1690616 | | 1- | | |
| L327 | CHIP COIL | 0.082uH | | | LQN21A82NJ04 | L1690919 | | 1- | | |
| L328 | M.RFC | 0.47uH | | | ELJ-NCR47JF | L1690655 | | 1- | | |
| L329 | COIL | | | | S-VCO-TX | S8101410 | | 1- | | |
| L330 | COIL | | | | S-VCO-RX | S8101409 | | 1- | | |
| L331 | M.RFC | 0.082uH | | | HK1608 82NJ-T | L1690527 | | 1- | | |
| L332 | COIL | | | | ACB1608M-120-T | S8101414 | | 1- | | |
| L333 | COIL | | | | ACB1608M-120-T | S8101414 | | 1- | | |
| L334 | CHIP COIL | 0.12uH | | | LQN21AR12J04 | L1690621 | | 1- | | |
| L335 | CHIP COIL | 0.015uH | | | LQN21A15NJ04 | L1690611 | | 1- | | |
| L336 | CHIP COIL | 0.068uH | | | LQN21A68NJ04 | L1690605 | | 1- | | |
| L337 | CHIP COIL | 0.068uH | | | LQN21A68NJ04 | L1690605 | | 1- | | |
| L338 | COIL | 0.56uH | | | NL252018T-R56J | S8101411 | | 1- | | |
| L339 | M.RFC | 0.082uH | | | HK1608 82NJ-T | L1690527 | | 1- | | |
| L340 | M.RFC | 4.7uH | | | LK1608 4R7K-T | L1690688 | | 1- | | |
| L342 | COIL | 0.22uH | | | MLF1608DR22KT | S8101412 | | 1- | | |
| Q301 | TRANSISTOR | | | | 2SB1184F5-Q | S8101415 | | 1- | B | f2 |
| Q302 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | B | f2 |
| Q303 | TRANSISTOR | | | | 2SB1197K(Q) | S8101416 | | 1- | A | A4 |
| Q304 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | A | A4 |
| Q305 | IC | | | | KIA7808API | G1093164 | | 1- | A | A3 |
| Q306 | FET | | | | RD70HVF1 | G3090140 | | 1- | A | D1 |
| Q307 | TRANSISTOR | | | | 2SB1197K(Q) | S8101416 | | 1- | A | A4 |
| Q308 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | A | A3 |
| Q309 | TRANSISTOR | | | | UMT1N TR | S8101418 | | 1- | B | b3 |
| Q310 | IC | | | | NJM78L05UA TE1 | G1091325 | | 1- | B | f3 |
| Q311 | TRANSISTOR | | | | 2SB1197K(Q) | S8101416 | | 1- | B | b3 |
| Q312 | TRANSISTOR | | | | DTC114TUA T106 | S8101417 | | 1- | b | b3 |
| Q313 | FET | | | | 2SK3075(TE12L) | G3830758 | | 1- | A | C1 |
| Q314 | FET | | | | RD00HVS1 | S8101419 | | 1- | B | e2 |
| Q315 | IC | | | | NJM2902V-TE1 | G1091679 | | 1- | B | f4 |
| Q316 | FET | | | | 3SK240(TE85L) | G4802407 | | 1- | B | a3 |
| Q317 | TRANSISTOR | | | | 2SC3356-T2B R24 | G3333567D | | 1- | B | e3 |
| Q318 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | B | d3 |
| Q319 | IC | | | | M62364FP 600D | G1093033 | | 1- | A | B4 |
| Q320 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | C3 |
| Q321 | FET | | | | 3SK240(TE85L) | G4802407 | | 1- | B | b3 |
| Q322 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | B4 |
| Q323 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | C4 |
| Q324 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | A | B4 |

RF Unit Parts List

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|------|-------------|-------|-------|------|------------------|-----------|-------|-----|------|---------|
| Q325 | TRANSISTOR | | | | DTA114EU T106 | G3070083 | | 1- | A | B3 |
| Q326 | TRANSISTOR | | | | DTA114EU T106 | G3070083 | | 1- | A | B3 |
| Q327 | TRANSISTOR | | | | 2SC4215Y TE85R | G3342157Y | | 1- | B | c4 |
| Q328 | TRANSISTOR | | | | 2SA1586GR TE85R | G3115867G | | 1- | B | c3 |
| Q329 | TRANSISTOR | | | | 2SC4116GR TE85R | G3341167G | | 1- | B | c3 |
| Q330 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | d3 |
| Q331 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | d4 |
| Q332 | TRANSISTOR | | | | 2SA1588Y(TE85L) | G3115888Y | | 1- | B | c4 |
| Q333 | IC | | | | LV2105V-TLM | G1093191 | | 1- | B | d4 |
| Q334 | IC | | | | TA31136FN(EL) | G1091605 | | 1- | B | b4 |
| Q336 | TRANSISTOR | | | | 2SA1588Y(TE85L) | G3115888Y | | 1- | B | b4 |
| Q337 | IC | | | | LA4425A | G1092241 | | 1- | A | A3 |
| Q338 | TRANSISTOR | | | | UMX2N TR | G3070254 | | 1- | B | b5 |
| Q344 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | B | e3 |
| Q345 | TRANSISTOR | | | | DTC144EU T106 | G3070041 | | 1- | B | e4 |
| R301 | CHIP RES. | 47k | 1/10W | 5% | RMC1/10T 473J | J24205473 | | 1- | | |
| R302 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R303 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R304 | THERMISTOR | | | | TBPS1R473J475H5Q | S8101388 | | 1- | | |
| R305 | CHIP RES. | 2.7k | 1/16W | 5% | RMC1/16 272JATP | J24185272 | | 1- | | |
| R306 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R307 | CHIP RES. | 100 | 1/4W | 5% | RMC1/4 101JATP | J24245101 | | 1- | | |
| R308 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R309 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16 153JATP | J24185153 | | 1- | | |
| R310 | THERMISTOR | | | | TBPS1R473J475H5Q | S8101388 | | 1- | | |
| R311 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R312 | CHIP RES. | 2.7k | 1/16W | 5% | RMC1/16 272JATP | J24185272 | | 1- | | |
| R313 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R314 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R315 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R316 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R318 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R319 | CHIP RES. | 2.2K | 1/16W | 5% | RMC1/16 222JATP | J24185222 | | 1- | | |
| R320 | CHIP RES. | 220 | 1/10W | 5% | RMC1/10T 221J | J24205221 | | 1- | | |
| R321 | CHIP RES. | 33k | 1/10W | 5% | RMC1/10T 333J | J24205333 | | 1- | | |
| R322 | CHIP RES. | 22K | 1/16W | 5% | RMC1/16 223JATP | J24185223 | | 1- | | |
| R323 | CHIP RES. | 22K | 1/16W | 5% | RMC1/16 223JATP | J24185223 | | 1- | | |
| R324 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R325 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R326 | CHIP RES. | 33k | 1/10W | 5% | RMC1/10T 333J | J24205333 | | 1- | | |
| R328 | CHIP RES. | 56 | 1/16W | 5% | RMC1/16 560JATP | J24185560 | | 1- | | |
| R329 | CHIP RES. | 27k | 1/16W | 5% | RMC1/16 273JATP | J24185273 | | 1- | | |
| R330 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16 333JATP | J24185333 | | 1- | | |
| R331 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R332 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R333 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16 105JATP | J24185105 | | 1- | | |
| R334 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16 471JATP | J24185471 | | 1- | | |
| R335 | CHIP RES. | 5.6k | 1/16W | 5% | RMC1/16 562JATP | J24185562 | | 1- | | |
| R337 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R338 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16 105JATP | J24185105 | | 1- | | |
| R339 | CHIP RES. | 56 | 1/16W | 5% | RMC1/16 560JATP | J24185560 | | 1- | | |
| R340 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R341 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R342 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16 333JATP | J24185333 | | 1- | | |
| R343 | CHIP RES. | 470K | 1/16W | 5% | RMC1/16 474JATP | J24185474 | | 1- | | |
| R344 | CHIP RES. | 330K | 1/16W | 5% | RMC1/16 334JATP | J24185334 | | 1- | | |
| R345 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R346 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R347 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16 394JATP | J24185394 | | 1- | | |
| R348 | CHIP RES. | 2.7k | 1/16W | 5% | RMC1/16 272JATP | J24185272 | | 1- | | |
| R349 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R350 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R351 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R352 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16 471JATP | J24185471 | | 1- | | |
| R353 | CHIP RES. | 5.6k | 1/16W | 5% | RMC1/16 562JATP | J24185562 | | 1- | | |
| R354 | CHIP RES. | 30k | 1/16W | 5% | RMC1/16 303JATP | J24185303 | | 1- | | |
| R355 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16 220JATP | J24185220 | | 1- | | |
| R356 | CHIP RES. | 8.2k | 1/16W | 5% | RMC1/16 822JATP | J24185822 | | 1- | | |
| R357 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R358 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R359 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16 221JATP | J24185221 | | 1- | | |
| R361 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16 220JATP | J24185220 | | 1- | | |
| R362 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R363 | CHIP RES. | 2.2K | 1/16W | 5% | RMC1/16 222JATP | J24185222 | | 1- | | |
| R364 | CHIP RES. | 470K | 1/16W | 5% | RMC1/16 474JATP | J24185474 | | 1- | | |
| R365 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16 221JATP | J24185221 | | 1- | | |

RF Unit Parts List

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R366 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R367 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16 105JATP | J24185105 | | 1- | | |
| R369 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16 105JATP | J24185105 | | 1- | | |
| R370 | CHIP RES. | 15 | 1/16W | 5% | RMC1/16 150JATP | J24185150 | | 1- | | |
| R371 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16 470JATP | J24185470 | | 1- | | |
| R372 | CHIP RES. | 15 | 1/16W | 5% | RMC1/16 150JATP | J24185150 | | 1- | | |
| R373 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R374 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R375 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16 221JATP | J24185221 | | 1- | | |
| R376 | CHIP RES. | 82 | 1/16W | 5% | RMC1/16 820JATP | J24185820 | | 1- | | |
| R377 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16 681JATP | J24185681 | | 1- | | |
| R378 | CHIP RES. | 22K | 1/16W | 5% | RMC1/16 223JATP | J24185223 | | 1- | | |
| R379 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R381 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16 100JATP | J24185100 | | 1- | | |
| R382 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16 470JATP | J24185470 | | 1- | | |
| R383 | CHIP RES. | 270 | 1/16W | 5% | RMC1/16 271JATP | J24185271 | | 1- | | |
| R384 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16 100JATP | J24185100 | | 1- | | |
| R385 | CHIP RES. | 56 | 1/16W | 5% | RMC1/16 560JATP | J24185560 | | 1- | | |
| R386 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R387 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R388 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16 470JATP | J24185470 | | 1- | | |
| R389 | CHIP RES. | 270 | 1/16W | 5% | RMC1/16 271JATP | J24185271 | | 1- | | |
| R390 | CHIP RES. | 22K | 1/16W | 5% | RMC1/16 223JATP | J24185223 | | 1- | | |
| R391 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R392 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R393 | CHIP RES. | 22K | 1/16W | 5% | RMC1/16 223JATP | J24185223 | | 1- | | |
| R394 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R395 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R396 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R397 | CHIP RES. | 470K | 1/16W | 5% | RMC1/16 474JATP | J24185474 | | 1- | | |
| R398 | CHIP RES. | 220K | 1/16W | 5% | RMC1/16 224JATP | J24185224 | | 1- | | |
| R399 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R401 | CHIP RES. | 2.2K | 1/16W | 5% | RMC1/16 222JATP | J24185222 | | 1- | | |
| R402 | CHIP RES. | 1.5k | 1/16W | 5% | RMC1/16 152JATP | J24185152 | | 1- | | |
| R403 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16 221JATP | J24185221 | | 1- | | |
| R405 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R406 | CHIP RES. | 2.7k | 1/16W | 5% | RMC1/16 272JATP | J24185272 | | 1- | | |
| R407 | CHIP RES. | 220K | 1/16W | 5% | RMC1/16 224JATP | J24185224 | | 1- | | |
| R408 | CHIP RES. | 470K | 1/16W | 5% | RMC1/16 474JATP | J24185474 | | 1- | | |
| R409 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16 331JATP | J24185331 | | 1- | | |
| R411 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R412 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R413 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R414 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R415 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R416 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R417 | CHIP RES. | 18k | 1/16W | 5% | RMC1/16 183JATP | J24185183 | | 1- | | |
| R418 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R419 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16 683JATP | J24185683 | | 1- | | |
| R420 | CHIP RES. | 220K | 1/16W | 5% | RMC1/16 224JATP | J24185224 | | 1- | | |
| R421 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R422 | CHIP RES. | 2.2K | 1/16W | 5% | RMC1/16 222JATP | J24185222 | | 1- | | |
| R423 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R424 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R425 | CHIP RES. | 470K | 1/16W | 5% | RMC1/16 474JATP | J24185474 | | 1- | | |
| R426 | CHIP RES. | 470K | 1/16W | 5% | RMC1/16 474JATP | J24185474 | | 1- | | |
| R427 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R428 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R429 | CHIP RES. | 270 | 1/16W | 5% | RMC1/16 271JATP | J24185271 | | 1- | | |
| R430 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R433 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16 100JATP | J24185100 | | 1- | | |
| R436 | CHIP RES. | 220K | 1/16W | 5% | RMC1/16 224JATP | J24185224 | | 1- | | |
| R437 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R440 | CHIP RES. | 1.2k | 1/16W | 5% | RMC1/16 122JATP | J24185122 | | 1- | | |
| R441 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R442 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16 154JATP | J24185154 | | 1- | | |
| R445 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16 154JATP | J24185154 | | 1- | | |
| R447 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R448 | CHIP RES. | 3.3K | 1/16W | 5% | RMC1/16 332JATP | J24185332 | | 1- | | |
| R450 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16 104JATP | J24185104 | | 1- | | |
| R451 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R452 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R453 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R454 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R456 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R457 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |

RF Unit Parts List

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|------|-------------------------|-------|-------|------|------------------|-----------|-------|-----|------|---------|
| R458 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16 105JATP | J24185105 | | 1- | | |
| R460 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16 105JATP | J24185105 | | 1- | | |
| R461 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R462 | CHIP RES. | 3.9k | 1/16W | 5% | RMC1/16 392JATP | J24185392 | | 1- | | |
| R463 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16 105JATP | J24185105 | | 1- | | |
| R464 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R465 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R470 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R471 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R473 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R474 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16 100JATP | J24185100 | | 1- | | |
| R475 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R476 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R477 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R479 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R480 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R481 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R482 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R490 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R493 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R494 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R495 | CHIP RES. | 0.33 | 1/10W | 1% | SR731JTDR330F | S8101385 | | 1- | | |
| R496 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16 103JATP | J24185103 | | 1- | | |
| R498 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16 102JATP | J24185102 | | 1- | | |
| R500 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R501 | CHIP RES. | 270 | 1/16W | 5% | RMC1/16 271JATP | J24185271 | | 1- | | |
| R502 | CHIP RES. | 150 | 1/16W | 5% | RMC1/16 151JATP | J24185151 | | 1- | | |
| R503 | CHIP RES. | 4.7K | 1/16W | 5% | RMC1/16 472JATP | J24185472 | | 1- | | |
| R504 | CHIP RES. | 2.2K | 1/16W | 5% | RMC1/16 222JATP | J24185222 | | 1- | | |
| R507 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R509 | CHIP RES. | 47K | 1/16W | 5% | RMC1/16 473JATP | J24185473 | | 1- | | |
| R510 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R515 | CHIP RES. | 0 | | | RMC1/16 000JATP | J24185000 | | 1- | | |
| R516 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| R517 | CHIP RES. | 2.2M | 1/16W | 5% | RMC1/16 225JATP | J24185225 | | 1- | | |
| R518 | THERMISTOR | | | | TBPS1R473J475H5Q | S8101388 | | 1- | | |
| X301 | XTAL | | | | UM-5.2S 21.25MHz | S8101424 | | 1- | | |
| X302 | CERAMIC DISC. | | | | CDBC450CX24-TC | H7901340 | | 1- | | |
| | CASE-SHIELD | | | | | S8002054 | | 1- | | |
| | SPRING-EARTH | | | | | S8002069 | | 1- | | |
| | SPACER | | | | | S8002064 | | 1- | | |
| | CABLE (with BLADE FUSE) | | | | | S8101435 | | 1- | | |

RF Unit Parts List

Note



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