

**BIIS 1200**  
**Compatible**

ManualsPlus.com

**ICOM<sup>®</sup>**

**SERVICE  
MANUAL**

UHF FM TRANSCEIVER

**IC-F2610**

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Icom Inc.

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## INTRODUCTION

This service manual describes the latest service information for the **IC-F2610** UHF FM TRANSCEIVER at the time of publication.

To upgrade quality, any electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

## DANGER

**NEVER** connect the transceiver to an AC outlet or to a DC power supply that uses more than 16 V. This will ruin the transceiver.

**DO NOT** expose the transceiver to rain, snow or any liquids. **DO NOT** reverse the polarities of the power supply when connecting the transceiver.

**DO NOT** apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.

| MODEL    | VERSION | FREQ.RANGE (MHz)     | TX PWR (W) | CH. SPACING (kHz) | UNIT <sup>*1</sup> | SPEAKER <sup>*1</sup> | MEMORY <sup>*1</sup> |
|----------|---------|----------------------|------------|-------------------|--------------------|-----------------------|----------------------|
| IC-F2610 | EUR-8   | 400-430              | 25/10/2    | 25/12.5           | None               | None                  | None                 |
|          | EUR-9   | 440-490              |            |                   |                    |                       |                      |
|          | EUR-10  | 490-520              |            |                   |                    |                       |                      |
|          | EUR-11  | 440-490              | 10/5/2     |                   |                    |                       |                      |
|          | EUR-12  | 400-430              | 25/10/2    |                   |                    |                       |                      |
|          | EUR-13  | 440-490              |            |                   |                    |                       |                      |
|          | EUR-14  |                      | 10/5/2     |                   |                    |                       |                      |
|          | EUR-01  | 400-430              | 25/10/2    |                   | None               | None                  |                      |
|          | EUR-02  | 440-490              |            |                   |                    |                       |                      |
|          | EUR-71  | 400-430              |            |                   |                    |                       |                      |
| EUR-72   | 440-490 |                      |            |                   |                    |                       |                      |
|          |         | UT-103 <sup>*3</sup> |            | SP-22             | EX-1761            |                       |                      |

\*1: Accessories

\*2: Same as that supplied with the [5-tone] version

\*3: Same as that supplied with the [BIIS] version



## ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

1. 10-digit order numbers
2. Component part number and name
3. Equipment model name and unit name
4. Quantity required

### <SAMPLE ORDER>

1110003571 S.IC MC3372SVM IC-F2610 MAIN UNIT 5 pieces  
 8810009370 Screw PH BT M3x12 ZK IC-F2610 Bottom cover 10 pieces

Addresses are provided on the inside back cover for your convenience.

## REPAIR NOTES

1. Make sure a problem is internal before disassembling the transceiver.
2. **DO NOT** open the transceiver until the transceiver is disconnected from its power source.
3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
4. **DO NOT** short any circuits or electronic parts. An insulated tuning tool **MUST** be used for all adjustments.
5. **DO NOT** keep power ON for a long time when the transceiver is defective.
6. **DO NOT** transmit power into a signal generator or a sweep generator.
7. **ALWAYS** connect a 40 dB to 50 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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## EXPLICIT DEFINITIONS

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### FREQUENCY COVERAGE

|             |             |
|-------------|-------------|
| Lo-band     | 400–430 MHz |
| Middle-band | 440–490 MHz |
| Hi-band     | 490–520 MHz |

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## TABLE OF CONTENTS

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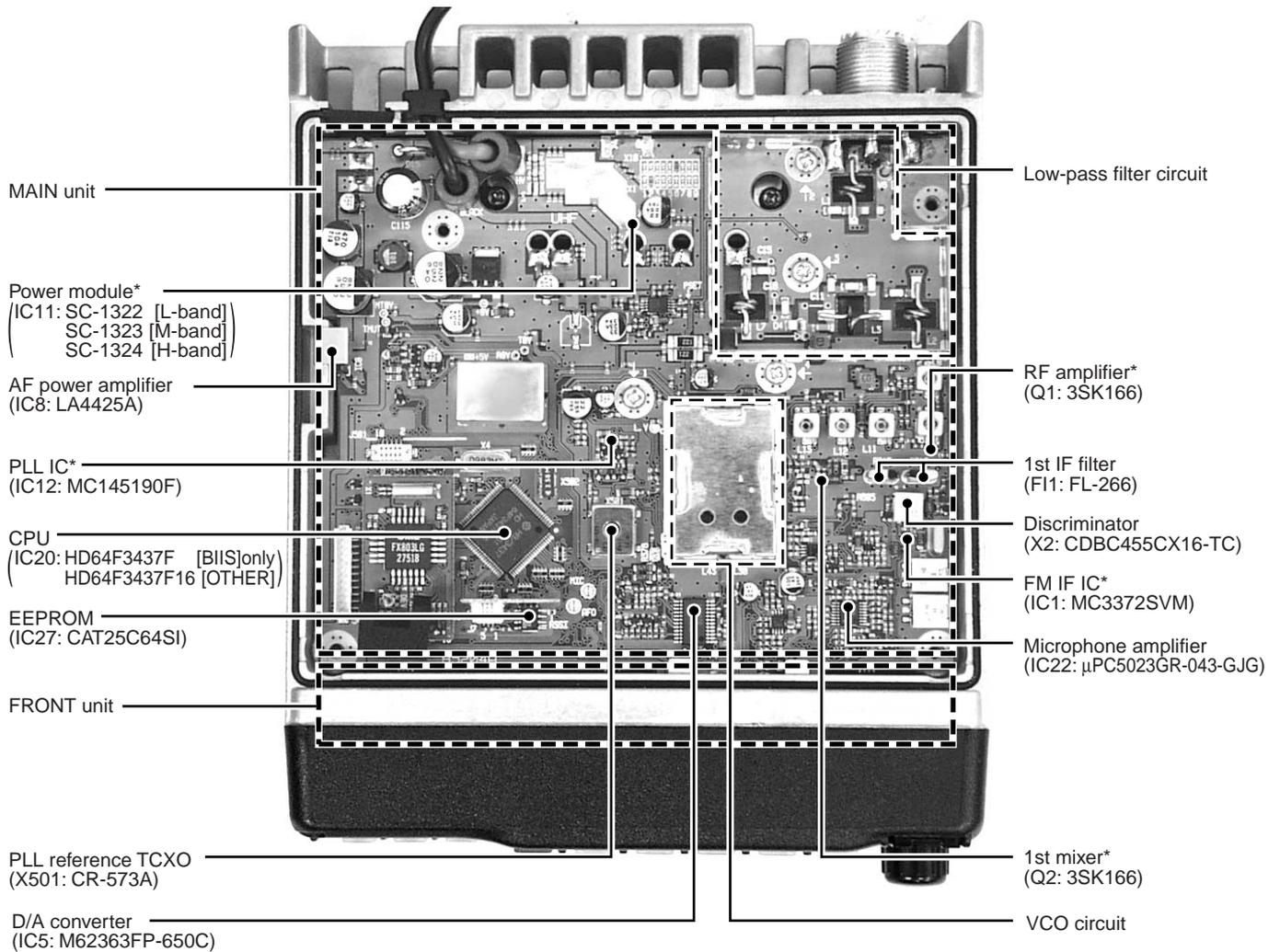
|                   |   |         |
|-------------------|---|---------|
| <b>SECTION 1</b>  | <b>SPECIFICATIONS</b>                               |         |
| <b>SECTION 2</b>  | <b>INSIDE VIEW</b>                                  |         |
| <b>SECTION 3</b>  | <b>DISASSEMBLY AND OPTION INSTRUCTIONS</b>          |         |
| <b>SECTION 4</b>  | <b>CIRCUIT DESCRIPTION</b>                          |         |
| 4 - 1             | RECEIVER CIRCUITS .....                             | .4 - 1  |
| 4 - 2             | TRANSMITTER CIRCUITS .....                          | .4 - 2  |
| 4 - 3             | PLL CIRCUITS .....                                  | .4 - 3  |
| 4 - 4             | POWER SUPPLY CIRCUITS .....                         | .4 - 3  |
| 4 - 5             | UT-103 CIRCUIT DESCRIPTION .....                    | .4 - 5  |
| 4 - 6             | PORT ALLOCATIONS .....                              | .4 - 6  |
| <b>SECTION 5</b>  | <b>ADJUSTMENT PROCEDURES</b>                        |         |
| 5 - 1             | PREPARATION .....                                   | .5 - 1  |
| 5 - 2             | INITIAL SET MODE .....                              | .5 - 2  |
| 5 - 3             | PLL ADJUSTMENT .....                                | .5 - 3  |
| 5 - 4             | RECEIVER ADJUSTMENT .....                           | .5 - 4  |
| 5 - 5             | TRANSMITTER ADJUSTMENT .....                        | .5 - 5  |
| <b>SECTION 6</b>  | <b>PARTS LIST</b>                                   |         |
| <b>SECTION 7</b>  | <b>MECHANICAL PARTS AND DISASSEMBLY</b>             |         |
| <b>SECTION 8</b>  | <b>SEMI-CONDUCTOR INFORMATION</b>                   |         |
| <b>SECTION 9</b>  | <b>BOARD LAYOUTS</b>                                |         |
| 9 - 1             | FRONT UNIT .....                                    | .9 - 1  |
| 9 - 2             | MAIN UNIT ([EUR-01/-02/-12/-13/-71/-72] ONLY) ..... | .9 - 3  |
| 9 - 3             | MAIN UNIT ([OTHER]) .....                           | .9 - 5  |
| <b>SECTION 10</b> | <b>BLOCK DIAGRAM</b>                                |         |
| <b>SECTION 11</b> | <b>VOLTAGE DIAGRAM</b>                              |         |
| 11 - 1            | FRONT UNIT .....                                    | .11 - 1 |
| 11 - 2            | MAIN UNIT .....                                     | .11 - 2 |
| <b>SECTION 12</b> | <b>OPTIONAL UNIT UT-103</b>                         |         |

## SECTION 1 SPECIFICATIONS

|                                   |   |  |                                 |                            |
|-----------------------------------|---|--|---------------------------------|----------------------------|
| <b>GENERAL</b>                    | Measurement method                      | ETS 300 086  |                                 |                            |
|                                   | Frequency coverage                      | 400–430 MHz [L-band], 440–490 MHz [M-band], 490–520 MHz [H-band]                                     |                                 |                            |
|                                   | Number of channels                      | 128 (16 ch × 8 banks)  |                                 |                            |
|                                   | Type of emission                        | 16K0F3E (25 kHz; [Wide])<br>8K50F3E (12.5 kHz; [Narrow])   |                                 |                            |
|                                   | Operating temperature range             | –20°C to +55°C   |                                 |                            |
|                                   | Power supply voltage                    | 13.2 V DC (negative ground)  |                                 |                            |
|                                   | Current drain (approx.)                 | TX   | max. power                      | 8.0 A [25 W], 6.5 A [10 W] |
|                                   |   |  | max. audio                      | 1.2 A                      |
|                                   |   | RX   | stand-by                        | 700 mA                     |
|                                   | Antenna connector                       | SO-239 (50 Ω)  |                                 |                            |
|                                   | Dimensions (proj. not included)         | 150(W) × 50(H) × 180(D) mm   |                                 |                            |
| Weight                            | 1.5 kg                                  |  |                                 |                            |
| <b>TRANSMITTER</b>                | Output power                            | 25 W/10 W/2.5 W [25 W] type, 10 W/5 W/2.5 W [10 W] type  |                                 |                            |
|                                   | Modulation system                       | Variable reactance frequency modulation  |                                 |                            |
|                                   | Max. frequency deviation                | ±5.0 kHz [Wide]<br>±2.5 kHz [Narrow]   |                                 |                            |
|                                   | Frequency error                         | ±1.5 kHz   |                                 |                            |
|                                   | Spurious emissions                      | 0.25 μW (≤ 1 GHz), 1.00 μV (> 1 GHz)   |                                 |                            |
|                                   | Adjacent channel power                  | 70 dB [Wide]<br>60 dB [Narrow]   |                                 |                            |
|                                   | Audio frequency response                | +2 dB to –5 dB of 6 dB/octave<br>range from 300 Hz to 3000 Hz [Wide]/from 300 Hz to 2550 Hz [Narrow] |                                 |                            |
|                                   | Audio harmonic distortion               | 5 % (40 % Dev.)  |                                 |                            |
|                                   | Residual modulation (with CCITT filter) | 45 dB minimum: 55 dB typical [Wide]<br>40 dB minimum: 50 dB typical [Narrow]                         |                                 |                            |
|                                   | Limiting                                | 70–100 % of modulation   |                                 |                            |
|                                   | Microphone connector                    | 8-pin modular (600 Ω)  |                                 |                            |
|                                   | <b>RECEIVER</b>                         | Intermediate frequency   | 1st: 30.875 MHz<br>2nd: 455 kHz |                            |
| Sensitivity                       |   | –2 dBμV emf (at 20 dB SINAD)   |                                 |                            |
| Squelch sensitivity               |   | –4 dBμV emf (Threshold)  |                                 |                            |
| Adjacent channel selectivity      |   | 70 dB [Wide]<br>60 dB [Narrow]   |                                 |                            |
| Spurious response                 |   | 70 dB  |                                 |                            |
| Intermodulation                   |   | 70 dB typical  |                                 |                            |
| Audio frequency response          |   | +2 dB to –5 dB of 6 dB/octave<br>range from 300 Hz to 3000 Hz [Wide]/from 300 Hz to 2550 Hz [Narrow] |                                 |                            |
| Hum and noise (with CCITT filter) |   | 45 dB minimum: 55 dB typical [Wide]<br>40 dB minimum: 50 dB typical [Narrow]                         |                                 |                            |
| Audio output power                |   | 3.5 W at 10% distortion with a 4 Ω load  |                                 |                            |
| External SP connector             |   | 2-conductor 3.5 (d) mm (1/8")/4 Ω  |                                 |                            |

All stated specifications are subject to change without notice or obligation.

**SECTION 2    INSIDE VIEW**

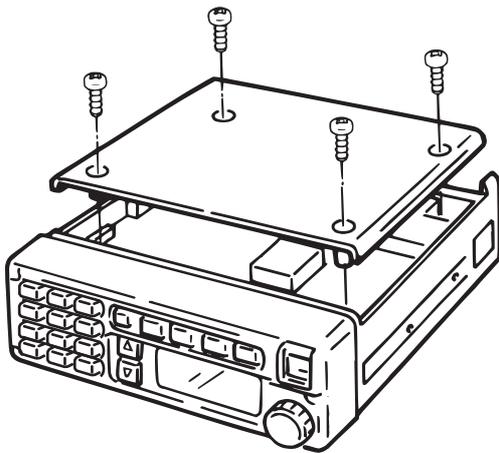


\*Located under side of the point

## SECTION 3 DISASSEMBLY AND OPTION INSTRUCTIONS

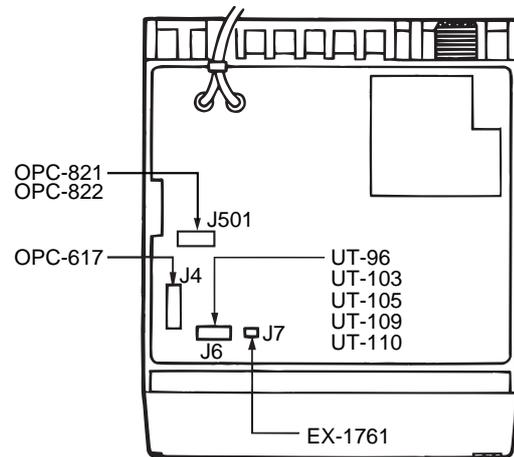
### • Opening cover

Remove 4 screws from bottom cover.

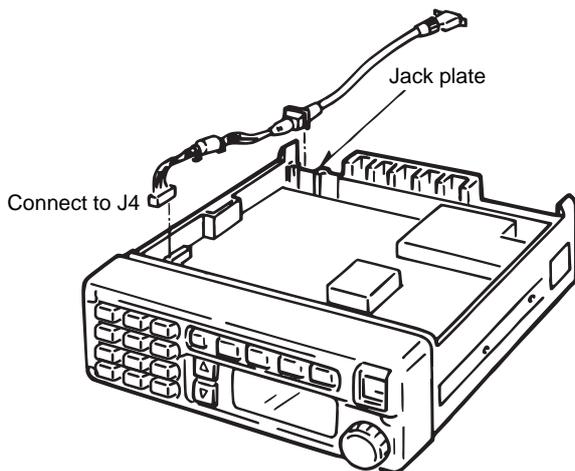


### • Installation location

- OPC-617 ACC CABLE
- OPC-821 AVL CONNECT CABLE
- OPC-822 INTERFACE CABLE
- UT-96 5-TONE UNIT
- UT-103 FFSK Logic Board
- UT-105 SmarTrunk II™ Logic Board
- UT-109 VOICE SCRAMBLER UNIT (Non-rolling type)
- UT-110 VOICE SCRAMBLER UNIT (Rolling type)
- EX-1761 MEMORY EXPANSION UNIT

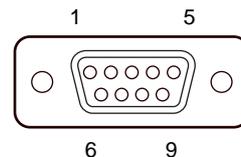


### • OPC-617 connection



Break the jack plate using cutting pliers to connect the OPC-617.

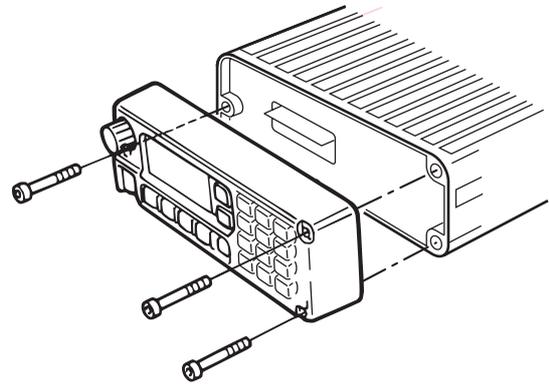
### PIN ASSIGNMENT



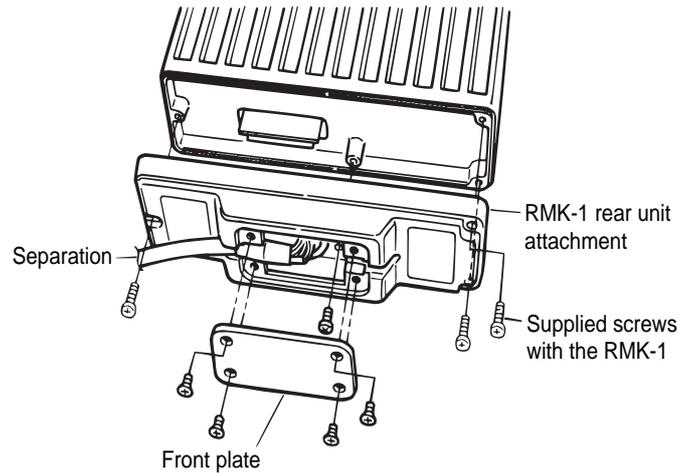
| Pin No. | Terminal name | Description                                       | Specification                 |
|---------|---------------|---|-------------------------------|
| 1       | DIM           | Backlight control input                           | +5 to +30 V for dark          |
| 2       | PAAF          | AF output for public address and Ext SP functions | 0 to 330 mV rms/<br>47 kΩ     |
| 3       | DISC          | AF output for a terminal unit                     | 330 mV rms/100 kΩ             |
| 4       | IN            | AF input for a terminal unit                      | 330 mV rms/1200 bps           |
| 5       | PTT           | PTT control input                                 | 0 V for transmit              |
| 6       | HORN          | Grounded when receiving the specified call        | Less than 50 mA when grounded |
| 7       | PAAF ⊖        | Ground for PAAF                                   | —                             |
| 8       | DISC ⊖        | Ground for terminal output                        | —                             |
| 9       | IN ⊖          | Ground for terminal input                         | —                             |

• **RMK-1 connection**

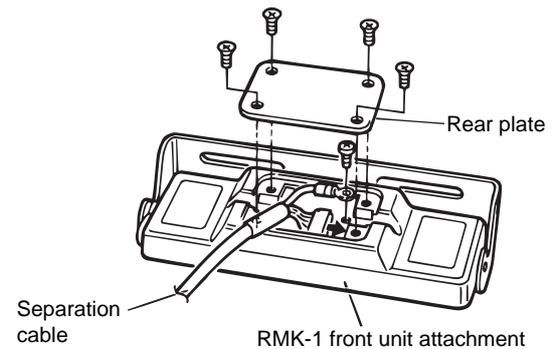
- ① Remove 3 allen-socket bolts from the front plate using an allen-wrench (1/32 in).
- ② Separate the front unit from the transceiver main unit.



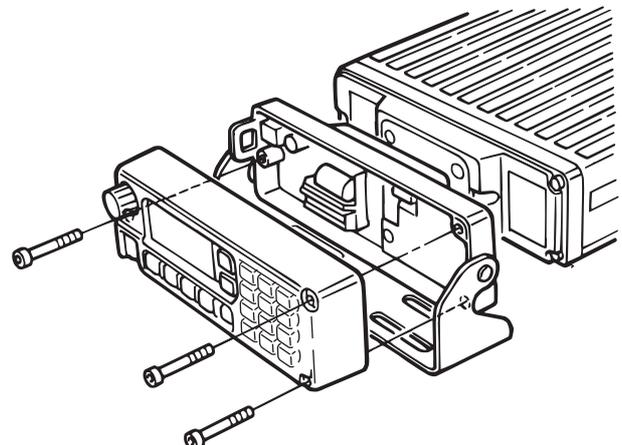
- ③ Attach the 'RMK-1 rear unit attachment' to the transceiver main unit using the supplied screws.
- ④ Remove 4 screws from the attachment to open the front plate.
- ⑤ Connect an optional separation cable OPC-609 (1.9 m) to the inside of the front plate and tighten the cable lug using the screw.
- ⑥ Re-attach the front plate.



- ⑦ Remove 4 screws from the 'RMK-1 front unit attachment' to open the rear plate.
- ⑧ Connect the other end of the optional separation cable to the attachment and tighten the cable lug using the screw.
- ⑨ Re-attach the rear plate.



- ⑩ Attach the front unit and attachment with the 3 removed allen-socket bolts.



## SECTION 4 CIRCUIT DESCRIPTION

### 4-1 RECEIVER CIRCUITS

#### 4-1-1 ANTENNA SWITCHING CIRCUIT (MAIN UNIT)

The antenna switching circuit functions as a low-pass filter while receiving and a resonator circuit while transmitting. The circuit does not allow transmit signals to enter receiver circuits.

Received signals enter the antenna connector (J1) and pass through the low-pass filters (L1–L3, C2, C3, C8–C10, C415). The filtered signals are passed through the  $\lambda/4$  type antenna switching circuit (D5, D6, L5) and then applied to the RF circuit.

#### 4-1-2 RF CIRCUIT (MAIN UNIT)

The RF circuit amplifies signals within the range of frequency coverage and filters out-of-band signals.

The signals from the antenna switching circuit pass through the two-stage tunable bandpass filters (D7, D8, L8, L9). The filtered signals are amplified at the RF amplifier (Q1) and then enter the another three-stage tunable bandpass filters (D9–D11, D514, L12, L13, L507) to suppress unwanted signals. The filtered signals are applied to the 1st mixer circuit.

D7–D11 and D514 employ varactor diodes, that are controlled by the PLL lock voltage, to track the bandpass filter. These varactor diodes tune the center frequency of an RF pass band for wide bandwidth receiving and good image response rejection.

#### 4-1-3 1ST MIXER AND 1ST IF CIRCUITS (MAIN UNIT)

The 1st mixer circuit converts the received signal to fixed frequency of the 1st IF signal with the PLL output frequency. By changing the PLL frequency, only desired frequency will pass through a pair of crystal filters at the next stage of the 1st mixer.

The RF signals from the bandpass filter are mixed with the 1st LO signals, which come from the Rx VCO circuit via the LO amplifier (Q3), at the 1st mixer circuit (Q2) to produce a 30.875 MHz 1st IF signal. The 1st IF signal is passed through the matching circuit (L14, L15) and a pair of crystal filters (F11a/b) in order to obtain selection capability and to pass only the desired signals. The filtered signal is applied to the 2nd IF circuit after being amplified at the 1st IF amplifier (Q4).

#### 4-1-4 2ND IF AND DEMODULATOR CIRCUITS (MAIN UNIT)

The 2nd mixer circuit converts the 1st IF signal into a 2nd IF signal. The double-conversion superheterodyne system (which convert receive signals twice) improves the image rejection ratio and obtains stable receiver gain.

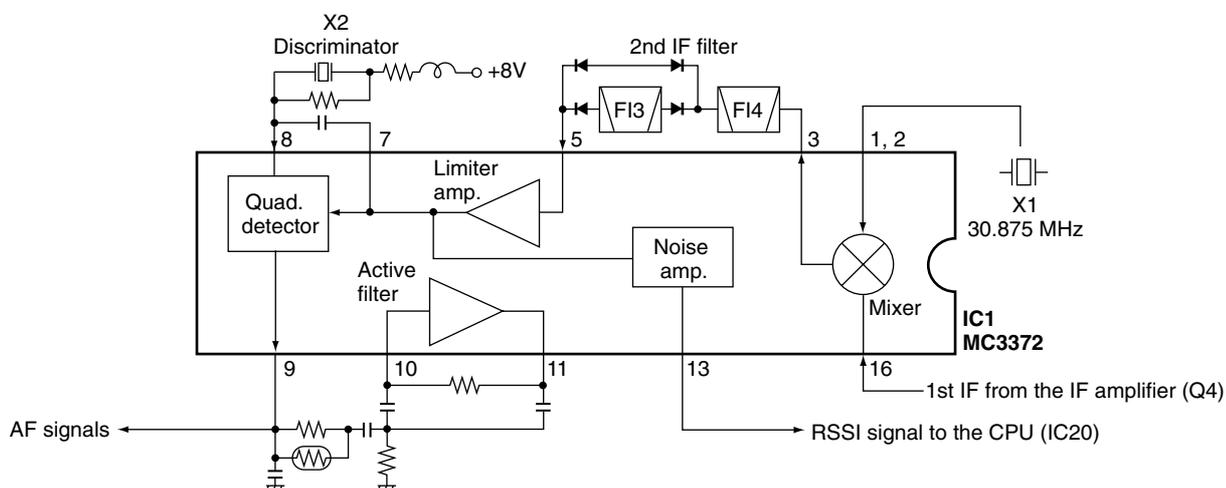
The 1st IF signal from the IF amplifier (Q4) is applied to the 2nd mixer section of the FM IF IC (IC1, pin 16) and is then mixed with the 2nd LO signal for conversion into 455 kHz 2nd IF signal.

IC1 contains the 2nd mixer, 2nd local oscillator, limiter amplifier, quadrature detector, active filter and noise amplifier circuit. The local oscillator section and X1 generates the 30.420 MHz 2nd LO signal.

The 2nd IF signal from the 2nd mixer (IC1, pin 3) passes through the ceramic filters (F13 and F14) during narrow channel spacing selection or passes through F14 (bypassing F13) only during wide channel spacing selection to suppress unwanted heterodyne frequencies signals via the N/W switches (D501, D502).

The filtered signal is applied to the quadrature detector section in the FM IF IC to demodulate the 2nd IF signal into AF signals using the ceramic discriminator (X2) after being amplified at the limiter amplifier section (pin 5). The demodulated AF signals are output from pin 9 of the IC and applied to the AF circuit via the receiver mute circuit.

#### • 2ND IF AND DEMODULATOR CIRCUITS



The N/W switches (D501, D502) select a ceramic filter (F13 or bypass), and the other N/W switch (Q61) adjusts the input level of the FM IF IC (IC1, pin 8) to switch the bandwidth depending on the NWC signal from the CPU (IC20, pin 57). When NWC signal becomes high level, bandwidth setting is wide.

**4-1-5 AF AMPLIFIER CIRCUIT (MAIN UNIT)**

The AF amplifier circuit amplifies the demodulated AF signals to drive a speaker.

The AF signals from the FM IF IC (IC1, pin 9) are amplified at the AF amplifier (IC2), and are then applied to the high-pass filter circuit (IC3a/b). The high-pass filter characteristics are controlled by the HFSW signal from the CPU (IC20, pin 60). When HFSW signal becomes high level, the cut-off frequency is shifted higher to remove CTCSS or DTCS signals.

The filtered AF signals from the high-pass filter (IC3, pin 1) are passed through the de-emphasis circuit (R68, C74) with frequency characteristics of -6 dB/octave, and are then applied to the electronic volume controller (IC7, pin 2) via the AF mute switch (Q6).

The output AF signals from the electronic volume controller (IC7, pin 9) are applied to the AF power amplifier (IC8) to drive the speaker.

**4-1-6 RECEIVE MUTE CIRCUITS (MAIN UNIT)**

**• NOISE SQUELCH**

A squelch circuit cuts out AF signals when no RF signals are received. By detecting noise components in the AF signals, the squelch circuit switches the AF mute switch.

Some noise components in the AF signals from the FM IF IC (IC1, pin 9) are passed through the active filter section in the IC (pins 10, 11). The N/W switch (Q62) adjusts the input noise level to the IC between wide and narrow bandwidth. When NWC signal which is applied to Q62 becomes high level, bandwidth setting is wide.

The noise signals from the FM IF IC (IC1, pin 11) are passed through the level controller (IC5, pins 21, 22) and are then converted into the pulse-type signals (NOIS) at the noise detector circuit (Q9, Q10).

The NOIS signal from the noise detector (Q10) is applied to the CPU (IC20, pin 32). The CPU then analyzes the noise condition and controls the AMUT (pin 56) and SP (pin 79) ports to toggle the AF mute switches (Q6, Q7).

**• CTCSS AND DTCS**

The tone squelch circuit detects AF signals and opens the squelch only when receiving a signal containing a matching subaudible tone (CTCSS or DTCS). When tone squelch is in use, and a signal with a mismatched or no subaudible tone is received, the tone squelch circuit mutes the AF signals even when noise squelch is open.

A portion of the AF signals from the AF amplifier (IC2) pass through the low-pass filter (Q503) and are then applied to the CTCSS decoder inside the CPU (IC20, pin 43) via the CDEC line to control the AMUT and SP ports.

**4-2 TRANSMITTER CIRCUITS**

**4-2-1 MICROPHONE AMPLIFIER CIRCUIT (FRONT AND MAIN UNITS)**

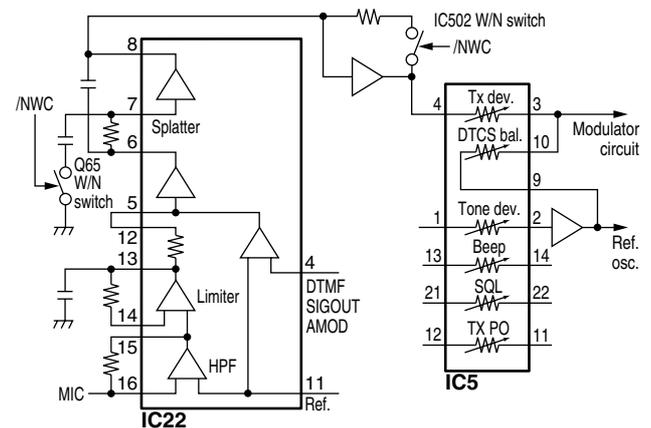
The microphone amplifier circuit amplifies audio signals from the microphone, within +6 dB/octave pre-emphasis characteristics, to a level needed for the modulation circuit.

AF signals (MIC) from the FRONT unit via J5 (pin 10) are applied to the audio switch (IC25). While transmitting, the MCON signal from the CPU is high and the AF signals is passed through IC25 to the microphone amplifier circuit.

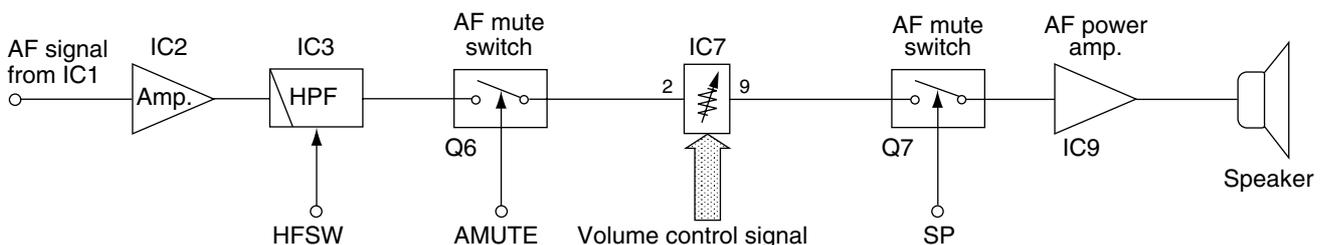
The AF signals from IC25 are applied to the microphone amplifier (IC22) via the pre-amplifier (IC21b). The amplified signals are applied to the limiter amplifier in IC22.

The entered signals are pre-emphasized with +6dB/octave at a limiter amplifier, then passed through a splatter filter section in IC22. The output signals from pin 8 pass through the level controller (IC5, pins 4, 3) via the buffer amplifier (IC503), and are then applied to the modulation circuit (D46).

**• MICROPHONE AMPLIFIER CIRCUIT**



**• AF CIRCUIT**



The N/W switches (IC502, Q65) are connected to the input lines of the splatter filter section (IC22) and buffer amplifier (IC503) respectively. The N/W switches (IC502, Q65) are controlled by the /NWC signal from Q505 to adjust filter cut-off frequency (by Q65) and maximum frequency deviation (by IC502).

**4-2-2 MODULATION CIRCUIT (MAIN UNIT)**

The modulation circuit modulates the VCO oscillating signal (RF signal) using the microphone AF signals.

The AF signals from the level controller (IC5) change the reactance of varactor diode (D46) to modulate the oscillated signal at the Tx VCO circuit (Q23). The modulated VCO signal is amplified at the buffer amplifiers (Q19, Q20) and is then applied to the drive amplifier circuit via the T/R switch (D17).

The CTCSS/DTCS signals from the CPU (IC20, pin 44) are amplified at the buffer amplifier (Q504). The amplified signals pass through the level controller (IC5, pins 1, 2) and are then applied to VCO circuit via the low-pass filter (IC21a).

When /NWC signal which is applied to the N/W switch (Q64) becomes high level, the N/W switch (Q64) changes the input level of the level controller (IC5), thus narrowing the bandwidth.

**4-2-3 DRIVE/POWER AMPLIFIER CIRCUITS (MAIN UNIT)**

The amplifier circuit amplifies the VCO oscillating signal to an output power level.

The signal from the buffer amplifier (Q20) passes through the T/R switch (D17), and is amplified at the drive amplifiers (Q17–Q15) and power module (IC11) to obtain 10 W or 25 W (depending on versions) of RF power.

The amplified signal is passed through the antenna switching circuit (D4), low-pass filter and APC detector. Then the signal is applied to the antenna connector.

The collector voltages for driver (Q16) come from the MT8V regulator (Q38, D28). The transmit mute switch (Q39) controls the MT8V regulator when transmit mute is necessary.

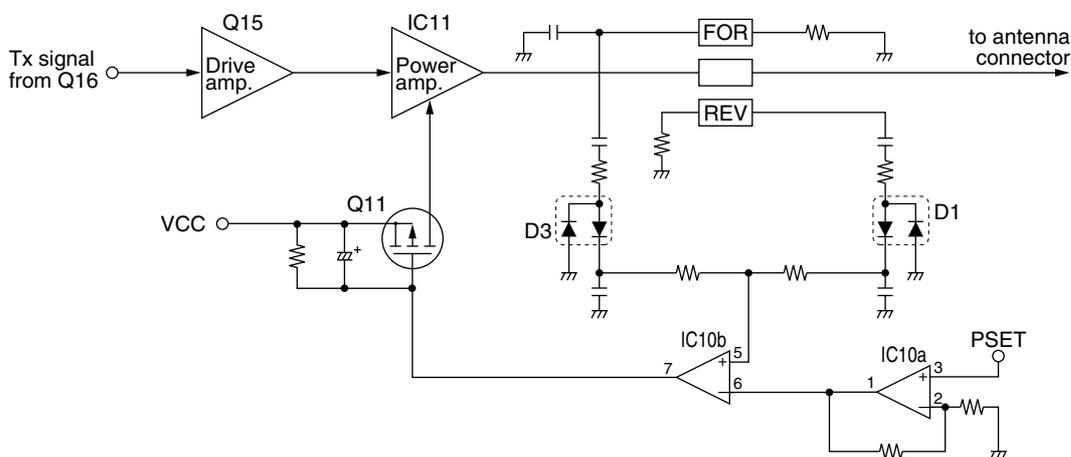
**4-2-4 APC CIRCUIT (MAIN UNIT)**

The APC circuit protects the power module (IC11) from a mismatched output load and stabilizes the output power.

The APC detector circuit detects forward signals and reflection signals at D3 and D1 respectively. The combined voltage is at a minimum level when the antenna impedance is matched at 50 Ω and is increased when it is mismatched.

The detected voltage is applied to the inverse amplifier (IC10b, pin 5), and the power setting voltage (PSET) is applied to the other input (IC10b, pin 6) via the amplifier (IC10a). When antenna impedance is mismatched, the detected voltage exceeds the power setting voltage. Then the output voltage of the inverse amplifier (IC10b, pin 7) controls the input current of the power module (IC11) to reduce the output power via the APC driver (Q11).

• **APC CIRCUIT**



### 4-3 PLL CIRCUITS

#### 4-3-1 PLL CIRCUIT (MAIN UNIT)

A PLL circuit provides stable oscillation of the transmit frequency and receive 1st LO frequency. The PLL circuit consists of the PLL IC, charge pump, loop filter and reference oscillator and employs a pulse swallow counter.

Oscillated signals from the VCO via the buffer amplifiers (Q19, Q18) are prescaled in the PLL IC (IC12, pin 11) based on the divided ratio (N-data). The PLL IC detects the out-of-step phase using the reference frequency and outputs it from pin 6 (IC12). The output signal is passed through the charge pump (Q30–Q33) and loop filters (R154/C181, R153/C179), and is then applied to the VCO circuit as the lock voltage.

The accelerator switch (IC13) selects the effective loop filter to accelerate the PLL lock up speed.

The lock voltage is also used for the receiver tunable band-pass filters to match the filter's center frequency to the desired receive frequency. The lock voltage is amplified at the buffer amplifier (Q29) and is then applied to the band-pass filters (D7–D11, D514) as center frequency control signal.

#### 4-3-2 VCO CIRCUIT (MAIN UNIT)

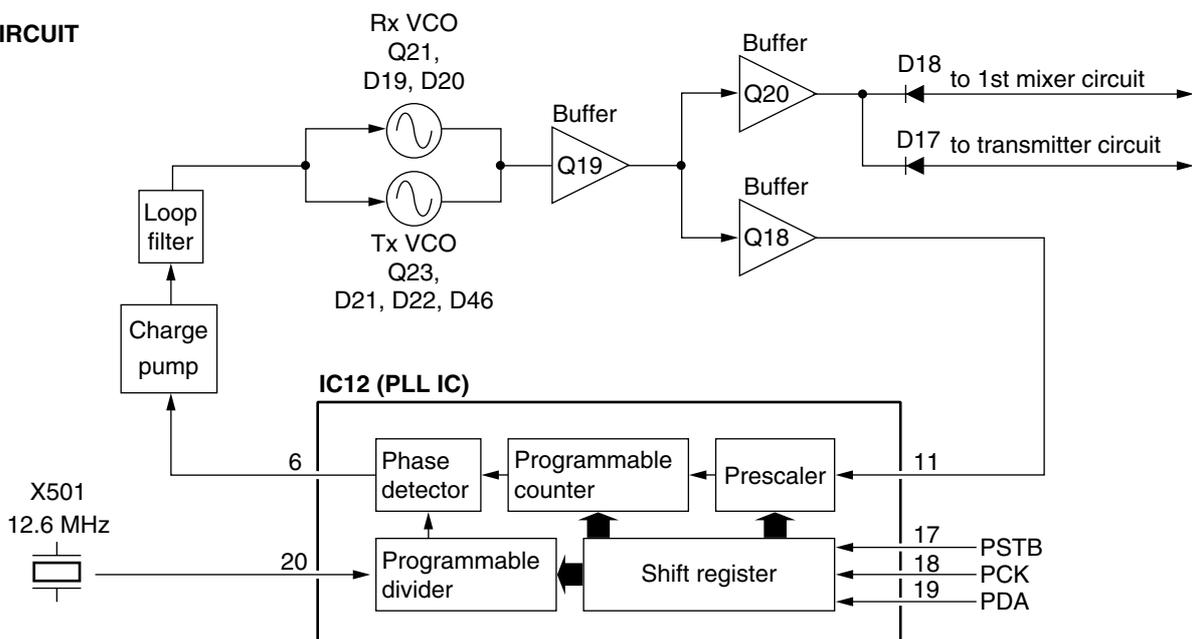
The VCO circuit contains a separate Rx VCO (Q21, D19, D20) and Tx VCO (Q23, D21, D22, D46). The oscillated signal is amplified at the buffer amplifiers (Q19, Q20) and is then applied to the T/R switches (D17, D18). Then the receive 1st LO (Rx) signal is applied to the 1st mixer (Q2) via the LO amplifier (Q3) and the transmit (Tx) signal to the driver (Q17).

A portion of the signal from the buffer amplifier (Q19) is fed back to the PLL IC (IC12, pin 11) via the another buffer amplifier (Q18) as the comparison signal.

### 4-4 POWER SUPPLY CIRCUIT VOLTAGE LINE

| LINE  | DESCRIPTION   |
|-------|---|
| HV    | The voltage from the external power connector.  |
| VCC   | Same voltage as the HV line passed through the power control circuit (Q12, Q14) controlled by PWON signal from the CPU (IC20, pin 77).  |
| CPU5V | Common 5 V converted from the HV line at the 5V regulator circuit (IC17). This voltage is supplied to the CPU regardless of the power switch.   |
| +5V   | Common 5 V converted from the VCC line at the +5V regulator circuit (Q42, Q43, D30) using the CPU5V line voltage as the reference.  |
| +8V   | Common 8 V converted from the VCC line at the +8V regulator circuit (IC16).   |
| R8V   | Receive 8 V converted from the VCC line at the R8V regulator circuit (Q36, Q37, D27) using the +8V line voltage as the reference and controlled by VRX signal from the CPU (IC20, pin 76).        |
| T8V   | Transmit 8 V converted from the VCC line at the T8V regulator circuit (Q40, Q41, D29) using the +8V line voltage as the reference and controlled by VTX signal from the the CPU (IC20, pin 75).   |
| MT8V  | Transmit 8 V converted from the VCC line at the MT8V regulator circuit (Q38, D28) using the +8V line voltage as the reference and controlled by TMUT signal from the the CPU (IC20, pin 62).      |
| FVPP  | Common 12 V converted from the +12V regulator circuit (IC506, Q508, Q509) using the VCC line. The circuit is controlled by the FVPC line from the CPU (IC20, pin 10).                             |
| +18V  | Common 18 V converted from the +18V DC/DC convertor circuit (IC18, Q44, D31–D33) using the +8V line. The output voltage is applied to the buffer amplifier (Q29) and loop filter (IC13, Q30–Q33). |

#### • PLL CIRCUIT



### 4-5 UT-103 CIRCUIT DESCRIPTION

#### 4-5-1 GENERAL

IC1 is the FFSK modem IC which is controlled by serial data bus line ("CCS", "SI", "SO", "SCK", "CIRQ" signals) from the IC-F1610's CPU. The IC is composed FFSK transmitting and receiving circuit, data register circuits, transmitting and receiving data buffer circuits, and so on.

X1 is oscillated 4.032 MHz reference signal to the IC1.

#### 4-5-2 DECODEING CIRCUIT

The input signal from the J1, pin 23 (IC-F1610's MAIN unit) via the "DISC IN" signal is applied to the FFSK modem IC (IC1, pin 10), and is then detected bit synchronization detection within 16 bit.

#### 4-5-3 ENCODEING CIRCUIT

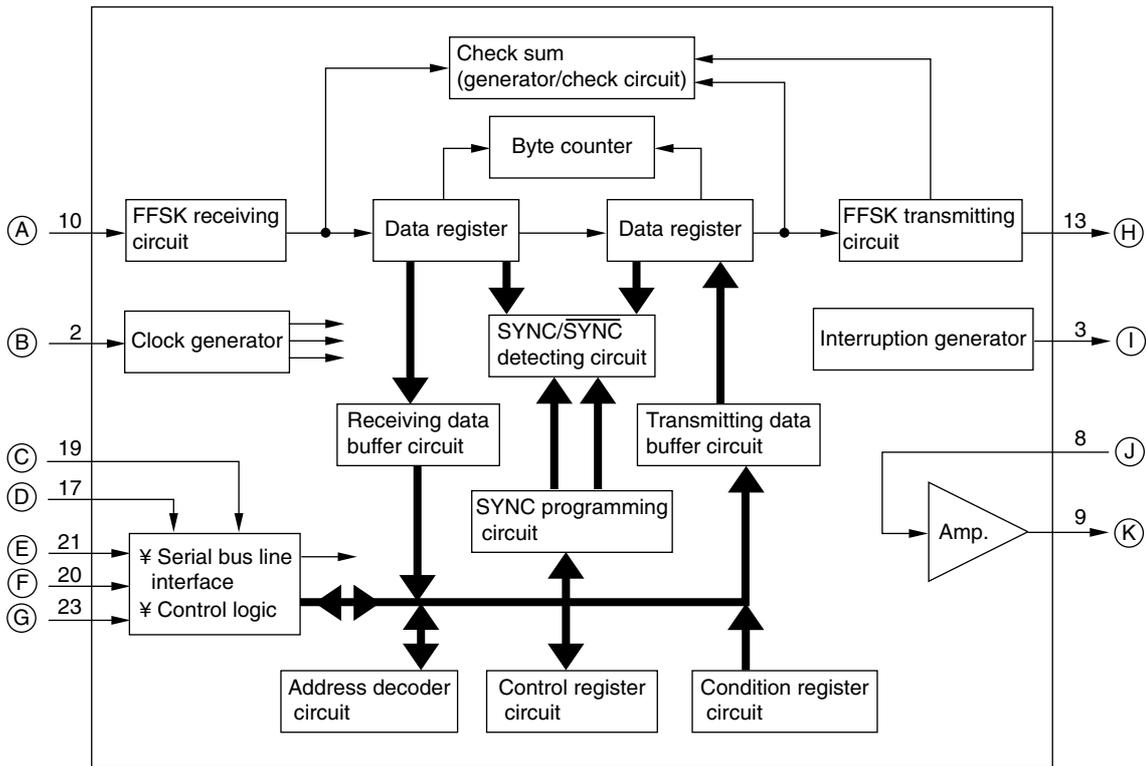
The 8 bit FFSK signal is made by serial data bus line signals, and is then output from the FFSK modem IC (IC1, pin 13).

In case of the FFSK signal is used for the PM modulation, the FM/PM switch (IC2) is switched to pin 7.

In case of the FFSK signal is used for the FM modulation, the FM/PM switch (IC2) is switched to pin 6.

The output signal from IC2, pin 1 is applied to the IC1's amplifier function (pin 8). The amplified signal is output from pin 9, and is then applied to the IC22, pin 4 (IC-F1610's MAIN unit) as "SIG OUT" signal. The signal is amplified at the buffer amplifier (IC-F1610's MAIN unit; IC503, pin 3), and is applied to the D/A convertor IC (IC-F1610's MAIN unit; IC5, pin 4). The signal is applied to the amplifier (IC-F1610's MAIN unit; Q52), and is then applied to the IC-F1610's modulation circuit (IC-F1610's MAIN unit; Q23, D21, D22, D42, D43) via the "MOD" signal.

#### • UT-103 BLOCK DIAGRAM



- (A) : Receiving signal
- (B) : Clock signal
- (C) : Chip select signal
- (D) : Reply data signal
- (E) : Serial clock signal
- (F) : Command data signal
- (G) : Wake signal
- (H) : Transmitting signal
- (I) : IRQ signal
- (J) : Amplifier input
- (K) : Amplifier output

**4-6 PORT ALLOCATIONS****CPU (MAIN UNIT; IC20)**

| Pin number | Port name  | Description   |
|------------|------------|---|
| 20         | PTTO       | Outputs the PTT control signal.<br>Low : While transmitting   |
| 21         | PTTI       | Input port for the PTT control signal from PTTO port.   |
| 22         | AFON       | Input port for the AF amplifier ON signal from an optional unit.  |
| 24         | BUSY       | Outputs busy signal for an optional unit.   |
| 25         | POSW       | Input port for the power switch.<br>Low : While power switch is pushed  |
| 30         | MMUT       | Input port for microphone audio mute control signal from an optional unit.  |
| 31         | RMUT       | Input port for receive audio mute control signal from an optional unit.   |
| 32         | NOIS       | Input port for noise signals (pulse-type) for noise squelch operation.  |
| 38         | AFV        | Input port for the volume control.  |
| 40         | RSSI       | Input port for receiving signal strength level detection.   |
| 43         | CDEC       | Input port for CTCSS/DTCS decoding.   |
| 44         | CENC       | Output ports for CTCSS/DTCS signals.  |
| 47, 48     | ECS2, ECS1 | Output ports for EEPROM select signals.<br>ECS1: For internal EEPROM (IC27)<br>ECS2: For optional EEPROM                    |
| 49         | ECK        | Outputs clock signal for EEPROMs.   |
| 50         | ESI        | Input port for serial signal from EEPROMs.  |
| 51         | ESO        | Outputs serial signal for EEPROMs.  |
| 53         | BEEP       | Outputs beep audio signals.   |
| 55         | MCON       | Outputs mic. audio mute control signal to the audio switch (IC25).<br>High : While DTMF signals are being transmitted, etc. |
| 56         | AMUT       | Outputs the AF mute switch (Q6) control signal.<br>High : While squelched, etc.   |
| 25         | NWC        | Outputs N/W switch control signals.<br>High : While wide is selected  |
| 57         | HFSW       | Outputs high-pass filter's characteristics select signal.<br>High : During CTCSS operation                                  |
| 60         | PA         | Outputs mic. audio select signal to the audio switch (IC25).<br>High : While "Public-address" function is ON                |
| 62         | TMUT       | Outputs MT8V regulator circuit (Q38, D27) control signal.<br>High : While transmit is muted.                                |

| Pin number | Port name            | Description   |
|------------|----------------------|---|
| 64         | DSTB                 | Outputs strobe signals for the level controller. (IC5)  |
| 65         | DDA                  | Outputs data signal for the level controller (IC5).   |
| 66         | DCK                  | Outputs clock signal for the level controller (IC5).  |
| 67         | PSTB                 | Outputs strobe signals for the PLL IC (IC12).   |
| 68         | PDA                  | Outputs data signal for the PLL IC (IC12).  |
| 69         | PCK                  | Outputs clock signal for the PLL IC (IC12).   |
| 72         | UNLK                 | Input port for the PLL unlock signal.<br>High : During unlock   |
| 73         | PLLT                 | Outputs PLL accelerator control signal.<br>High : While scanning, etc.  |
| 75         | VTX                  | Outputs the T8V regulator circuit (Q38, D28) control signal.<br>Low : While transmitting  |
| 76         | VRX                  | Outputs the R8V regulator circuit (Q36, D27) control signal.<br>Low : While receiving   |
| 77         | PWON                 | Outputs the power control circuit (Q12) control signal.<br>High : During power ON   |
| 78         | PASP                 | Outputs "Public-address" mute signal.<br>High : While PA and Ext. SP functions are not used                                       |
| 79         | SP                   | Outputs the mute switch (Q7) control signal (incl. beep).<br>High : While squelched, etc.   |
| 80         | DIM                  | Input port for an external LCD backlight brightness control signal.<br>Low : LCD backlight is dimmed                              |
| 82-89      | DTR1-DTR4, DTC4-DTC1 | Outputs DTMF audio signals.   |
| 93         | HORN                 | Outputs high level control signal for the pre-set time to the connected external unit when matched 2- or 5-tone code is received. |
| 99         | SIFT                 | Outputs CPU clock shift signal.   |

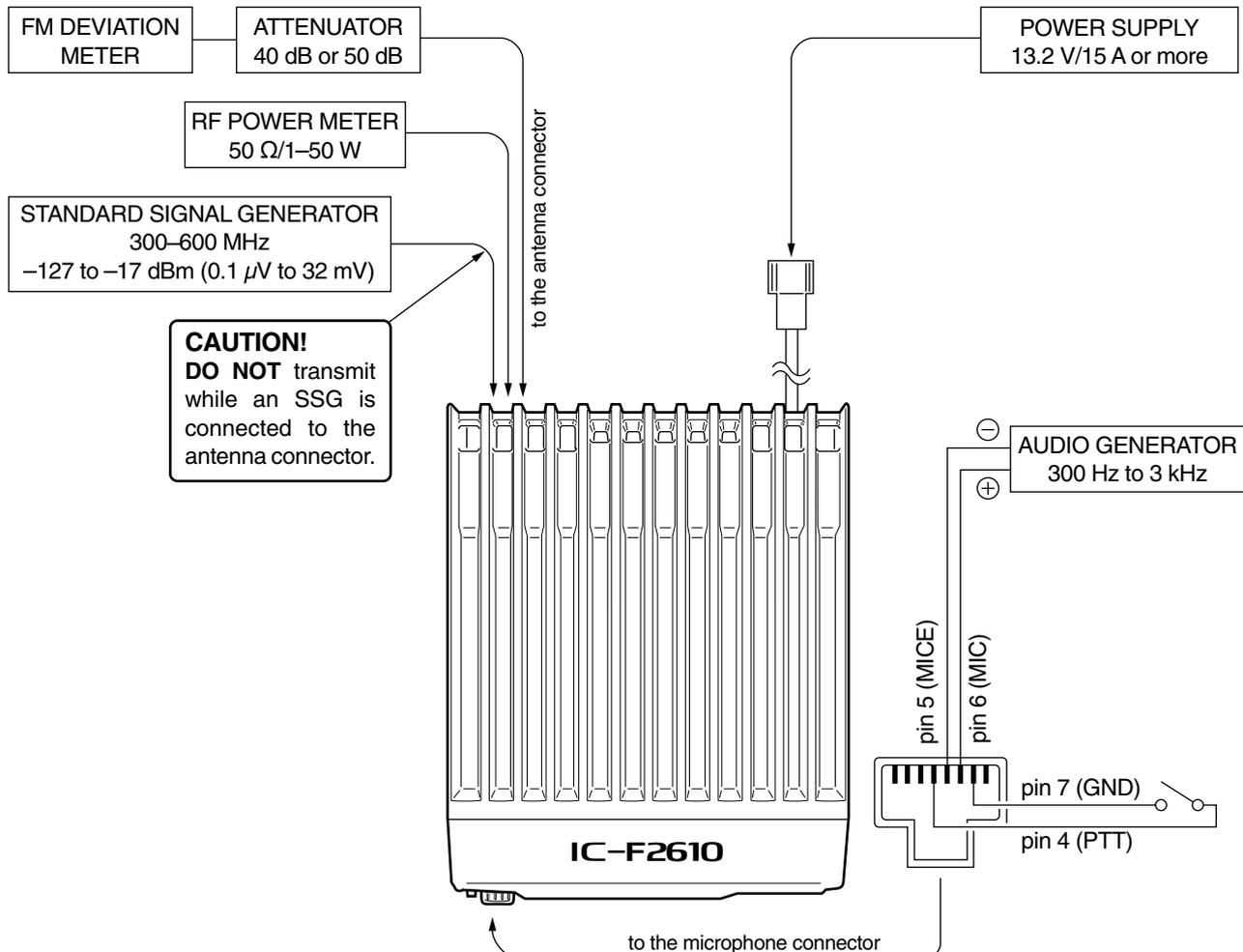
## SECTION 5 ADJUSTMENT PROCEDURES

### 5-1 PREPARATION

#### ■ REQUIRED TEST EQUIPMENT

| EQUIPMENT                        | GRADE AND RANGE   | EQUIPMENT                       | GRADE AND RANGE  |
|----------------------------------|---|---------------------------------|--|
| DC power supply                  | Output Voltage : 13.2 V DC<br>Current capacity : 15 A or more   | Standard signal generator (SSG) | Frequency range : 0.1–600 MHz<br>Output level : 0.1 $\mu$ V–32 mV<br>(–127 to –17 dBm) |
| RF power meter (terminated type) | Measuring range : 1–50 W<br>Frequency range : 300–600 MHz<br>Impedance : 50 $\Omega$<br>SWR : Less than 1.2 : 1 | Oscilloscope                    | Frequency range : DC–20 MHz<br>Measuring range : 0.01–20 V                             |
| Frequency counter                | Frequency range : 0.1–600 MHz<br>Frequency accuracy: $\pm$ 1 ppm or better<br>Sensitivity : 100 mV or better    | DC voltmeter                    | Input impedance : 50 k $\Omega$ /V DC or better  |
| RF voltmeter                     | Frequency range : 0.1–600 MHz<br>Measuring range : 0.01–10 V  | Digital multimeter              | Measuring range : 10 mV–10 V   |
| FM deviation meter               | Frequency range : DC–600 MHz<br>Measuring range : 0 to $\pm$ 10 kHz   | AC millivoltmeter               | Input impedance : 10 M $\Omega$ /V DC or better  |
| Audio generator                  | Frequency range : 300–3000 Hz<br>Measuring range : 1–500 mV   | External speaker                | Input impedance : 4 $\Omega$<br>Capacity : 5 W or more                                 |
|                                  |   | Attenuator                      | Power attenuation : 40 dB or 50 dB<br>Capacity : 50 W or more                          |
|                                  |   | Terminator                      | Impedance : 50 $\Omega$<br>Capacity : 50 W or more                                     |

#### ■ CONNECTION



## 5-2 INITIAL SET MODE

The following items can be adjusted via *Initial Set Mode* without opening the transceiver's case.

### ■ ENTERING INITIAL SET MODE

- ① Turn the transceiver power OFF.
- ② While pushing  $\triangle$  and  $\nabla$ , turn power ON.
  - Bank number appears regardless of the channel separation type, 'bank' or 'free'.
- ③ Push  $\text{P}_0$  to cycle through the initial set mode items.

**NOTE:** Initial Set Mode access can be inhibited through PC programming. In such case,  $\text{P}_0$  cannot be used and only 'DISPLAY' setting is available. Ask your Dealer or Icom Service Center for PC programming.

### ■ SELECTABLE ITEMS

| No. | ITEM       | SELECTABLE CONDITIONS   |                   |                      |
|-----|------------|---|-------------------|----------------------|
|     |            | $\text{P}_1$  | $\text{P}_2$      | $\text{P}_3$         |
| 1   | DISPLAY    | Backlight   | —                 | Contrast             |
| 2   | AF/SQUELCH | —   | Squelch level     | Minimum AF level     |
| 3   | BEEP TONES | Link ON/OFF   | Beep tones ON/OFF | Beep level           |
| 4   | DEVIATION  | DTCS balance  | Tone deviation    | Max. voice deviation |
| 5   | S-METER    | Indicate the received signal level regardless of $\text{P}_1$ to $\text{P}_3$ keys. |                   |                      |
| 6   | TX POWER   | Low 1   | Low 2             | High                 |

### ■ SELECTION METHOD

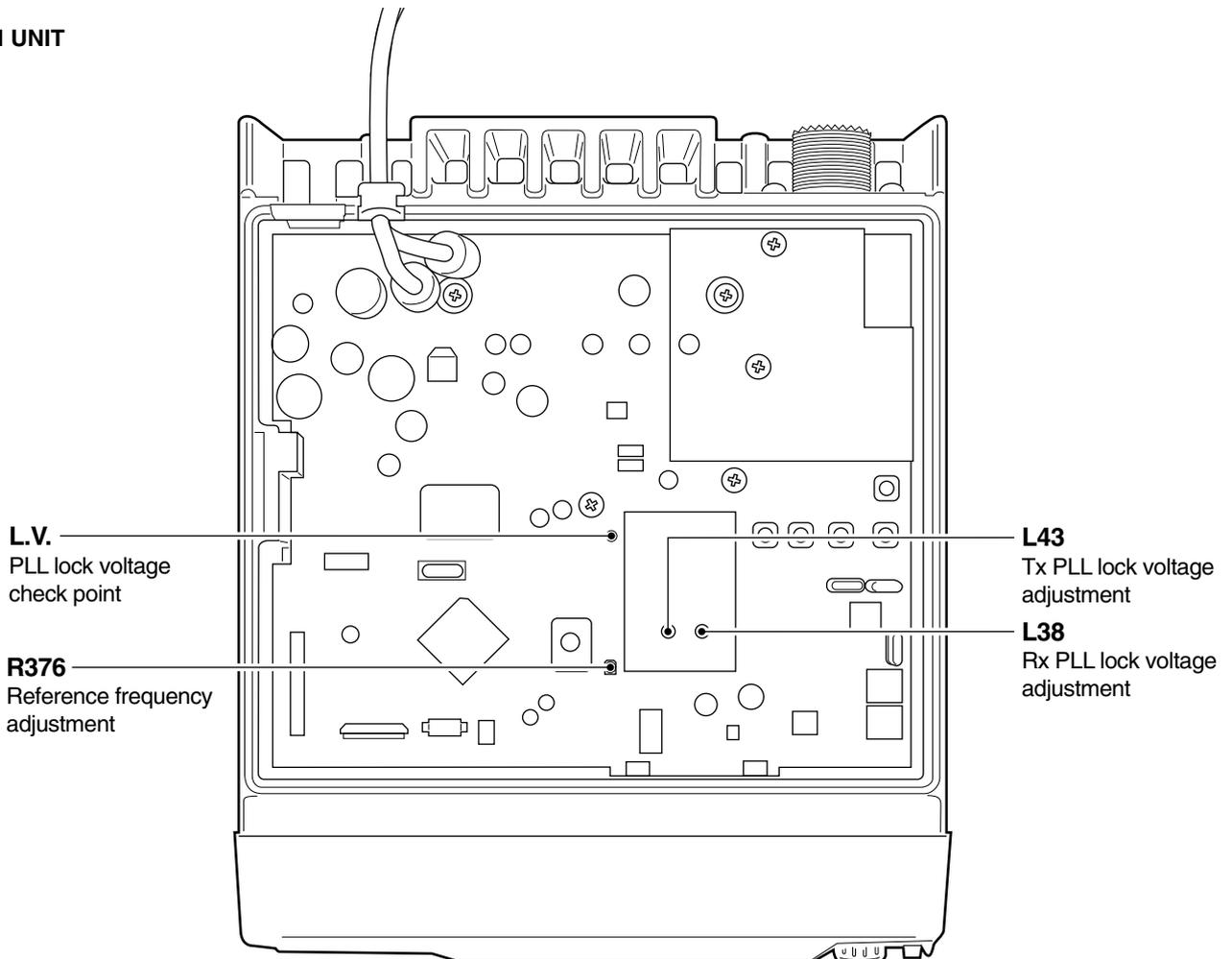
| MODE No. | ITEM   | METHOD   | NOTE   |
|----------|--|--|--|
| 1        | Display backlight                              | Push $\text{P}_1$ to select 'bright', 'dark' or 'off'. |  |
|          | Display contrast                               | Rotate the volume control while pushing $\text{P}_3$ . |  |
| 2        | Squelch level                                  | Rotate the volume control while pushing $\text{P}_2$ . |  |
|          | Minimum AF level                               | Rotate the volume control while pushing $\text{P}_3$ . |  |
| 3        | Link/unlink beep tones with the volume control | Push $\text{P}_1$ to select 'link' or 'unlink'.        | 2 beeps: link      1 beep: unlink  |
|          | Beep ON/OFF                                    | Push $\text{P}_2$ to turn beeps ON and OFF.            | 2 beeps: ON      1 beep: OFF<br>Effective after exiting Initial Set Mode   |
|          | Maximum beep level                             | Push $\text{P}_3$ to select the desired beep level.    |  |
| 4        | DTCS balance                                   | Rotate the volume control while pushing $\text{P}_1$ . | Automatic transmission while pushing the key.  |
|          | CTCSS/DTCS Tone deviation                      | Rotate the volume control while pushing $\text{P}_2$ . | Automatic transmission while pushing the key. Separate setting for CTCSS and DTCS depending on the programmed tone system. |
|          | Maximum voice deviation                        | Rotate the volume control while pushing $\text{P}_3$ . | Automatic transmission while pushing the key.  |
| 5        | S-meter level                                  | —  | Received signal level is shown in the display.   |
| 6        | Transmit low power (L1)                        | Rotate the volume control while pushing $\text{P}_1$ . | Automatic transmission while pushing the key.  |
|          | Transmit low power (L2)                        | Rotate the volume control while pushing $\text{P}_2$ . | Same as above.   |
|          | Transmit high power (H)                        | Rotate the volume control while pushing $\text{P}_3$ . | Same as above.   |

5-3 PLL ADJUSTMENT

| ADJUSTMENT              | ADJUSTMENT CONDITIONS   | MEASUREMENT |   | VALUE  | ADJUSTMENT |            |        |
|-------------------------|---|-------------|---|--|------------|------------|--------|
|                         |   | UNIT        | LOCATION  |  | UNIT       | ADJUST     |        |
| PLL LOCK VOLTAGE        | 1 • Operating freq. : 390.000 MHz [L]<br>440.000 MHz [M]<br>480.000 MHz [H]<br>• Receiving    | MAIN        | Connect a digital multi-meter or an oscilloscope to the check point "LV". | 2.0 V  | MAIN       | L38        |        |
|                         | 2 • Operating freq. : 430.000 MHz [L]<br>490.000 MHz [M]<br>520.000 MHz [H]<br>• Receiving    |             |   |  |            | 7.0–13.0 V | Verify |
|                         | 3 • Operating freq. : 390.000 MHz [L]<br>440.000 MHz [M]<br>480.000 MHz [H]<br>• Transmitting |             |   |  |            | 2.0 V      | L43    |
|                         | 4 • Operating freq. : 430.000 MHz [L]<br>490.000 MHz [M]<br>520.000 MHz [H]<br>• Transmitting |             |   |  |            | 7.0–13.0 V | Verify |
| PLL REFERENCE FREQUENCY | 1 • Operating freq. : 390.000 MHz [L]<br>440.000 MHz [M]<br>480.000 MHz [H]<br>• Transmitting | Rear panel  | Loosely couple a frequency counter to the antenna connector.              | 390.0000 MHz [L]<br>440.0000 MHz [M]<br>480.0000 MHz [H] | MAIN       | R376       |        |

[L]: [L-band (400–430 MHz)], [M]: [M-band (440–490 MHz)], [H]: [H-band (490–520 MHz)]

• MAIN UNIT



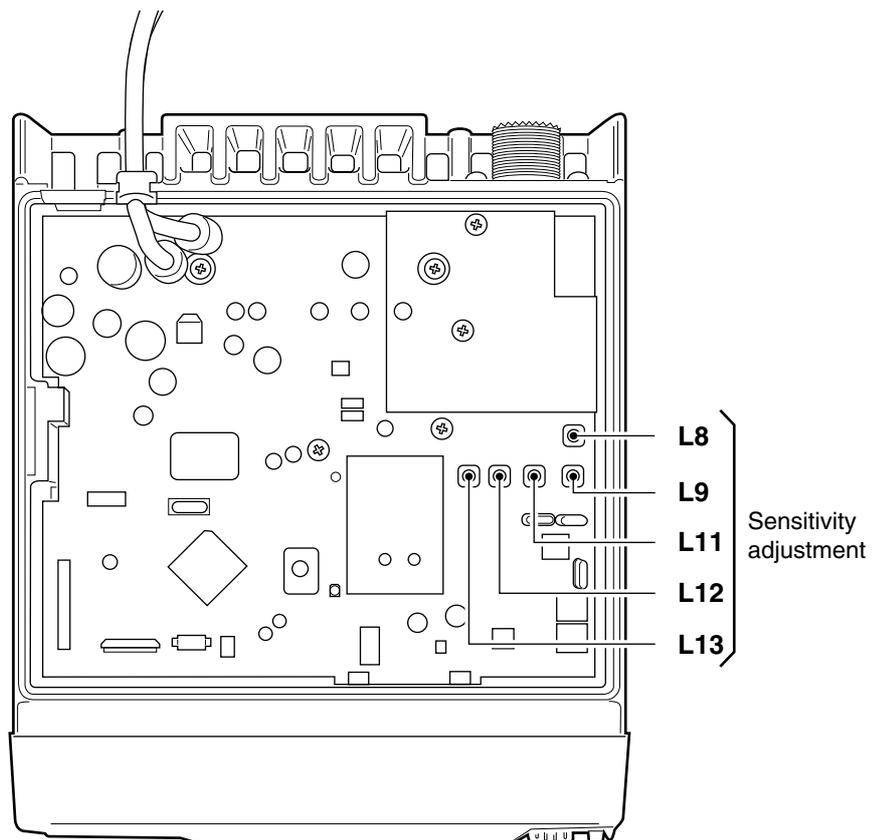
5-4 RECEIVER ADJUSTMENT

| ADJUSTMENT                    | ADJUSTMENT CONDITIONS   | MEASUREMENT METHOD   | ADJUSTMENT  |  |
|-------------------------------|---|--|---|--|
|                               |   |  | VALUE   | ADJUST   |
| RECEIVER SENSITIVITY          | 1 <ul style="list-style-type: none"> <li>Operating freq. : 400.000 MHz [L]<br/>440.000 MHz [M]<br/>490.000 MHz [H]</li> <li>Enter <b>Initial Set Mode</b> No. 5.<br/>Refer to page 5-2 for details.</li> <li>Connect a standard signal generator to the antenna connector and set as:<br/>Level : 5.6 <math>\mu</math>V* (-92 dBm)<br/>Modulation : OFF</li> <li>Connect a 4 <math>\Omega</math> load to the external speaker jack.</li> <li>Receiving</li> </ul> | Number digits in the LCD<br> | Maximum indication                                  | Adjust in sequence L8, L9, L11, L12, L13 on the MAIN unit. |
| NOISE SQUELCH THRESHOLD POINT | 1 <ul style="list-style-type: none"> <li>Operating freq. : 400.000 MHz [L]<br/>440.000 MHz [M]<br/>490.000 MHz [H]</li> <li>Enter <b>Initial Set Mode</b> No. 2.<br/>Refer to page 5-2 for details.</li> <li>Make sure no signal is being applied to the antenna connector.</li> <li>Receiving</li> </ul>   | Speaker output   | At the point where the noise audio just disappears. | Rotate volume control while pushing <b>P2</b> .            |
|                               | 2 <ul style="list-style-type: none"> <li>Connect an SSG to the antenna connector and set as:<br/>Level : 0.32 <math>\mu</math>V* (-117 dBm)<br/>Deviation : <math>\pm</math>3.5 kHz<br/>Modulation : 1 kHz</li> <li>Receiving</li> </ul>  |  | Squelch opens.                                      | Verify   |
| BEEP LEVEL                    | 1 <ul style="list-style-type: none"> <li>Operating freq. : Any</li> <li>Enter <b>Initial Set Mode</b> No. 3.<br/>Refer to page 5-2 for details.</li> <li>Receiving</li> </ul>   | Speaker output   | Desired level                                       | Push <b>P3</b> to select the beep level.                   |

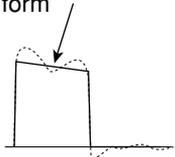
\*This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

[L]: [L-band (400–430 MHz)], [M]: [M-band (440–490 MHz)], [H]: [H-band (490–520 MHz)]

• MAIN UNIT



5-5 TRANSMITTER ADJUSTMENT

| ADJUSTMENT  | ADJUSTMENT CONDITIONS  | MEASUREMENT METHOD   | ADJUSTMENT  |   |
|---|--|--|---|---|
|   |  |  | VALUE   | ADJUST  |
| OUTPUT POWER  | 1 • Operating freq. : 400.000 MHz [L]<br>440.000 MHz [M]<br>490.000 MHz [H]<br>465.000 MHz<br>[[EUR-13], [[EUR-02], [EUR-72] only<br>• Enter <b>Initial Set Mode</b> No. 6.<br>Refer to page 5-2 for details.  | Connect an RF power meter to the antenna connector.  | 24 W [25 W]   | Rotate volume control while pushing <b>P3</b> . |
|   |  |  | 10 W [10 W]   |   |
|   |  |  | 10 W [25 W]<br>5 W [10 W]   |   |
|   |  |  | 2.5 W   | Rotate volume control while pushing <b>P1</b> . |
| <b>NOTE:</b> When the RF output power cannot be set with this procedure, cloning may be necessary to cancel the output power setting. |  |  |   |   |
| FM DEVIATION  | 1 • Operating freq. : 400.000 MHz [L]<br>440.000 MHz [M]<br>490.000 MHz [H]<br>• Enter <b>Initial Set Mode</b> No. 4.<br>Refer to page 5-2 for details.<br>• Connect an audio generator to the microphone connector and set as:<br>1 kHz/35 mV<br>• Set an FM deviation meter as:<br>HPF : OFF<br>LPF : 20 kHz<br>De-emphasis : OFF<br>Detector : (P-P)/2<br>• W/N setting : Wide      | Connect an FM deviation meter to the antenna connector through an attenuator.                      | ±4.0 kHz [W]  | Rotate volume control while pushing <b>P3</b> . |
|   |  |  | ±2.0 kHz [N]  |   |
| DTCS WAVE FORM AND DEVIATION  | 1 • Operating freq. : 415.000 MHz [L]<br>465.000 MHz [M]<br>505.000 MHz [H]<br>• Enter <b>Initial Set Mode</b> No. 4.<br>Refer to page 5-2 for details.<br>• No AF signals are applied to the microphone connector.<br>• Set an FM deviation meter as:<br>HPF : OFF<br>LPF : 20 kHz<br>De-emphasis : OFF<br>Detector : (P-P)/2<br>• W/N setting : Wide<br>• DTCS code : 007            | Connect an FM deviation meter with an oscilloscope to the antenna connector through an attenuator. | Set to flat wave form   | Rotate volume control while pushing <b>P1</b> . |
|   |  |  |  |   |
|   |  |  | ±0.7 kHz [W]  |   |
|   | 2 • W/N setting : Narrow   |  | ±0.35 kHz [N]   |   |
| CTCSS TONE DEVIATION  | 1 • Operating freq. : 415.000 MHz [L]<br>465.000 MHz [M]<br>505.000 MHz [H]<br>• Enter <b>Initial Set Mode</b> No. 4.<br>Refer to page 5-2 for details.<br>• No AF signals are applied to the microphone connector.<br>• Set an FM deviation meter as:<br>HPF : OFF<br>LPF : 20 kHz<br>De-emphasis : OFF<br>Detector : (P-P)/2<br>• W/N setting : Wide<br>• CTCSS tone freq. : 88.5 Hz | Connect an FM deviation meter to the antenna connector through an attenuator.                      | ±0.7 kHz [W]  | Rotate volume control while pushing <b>P2</b> . |
|   |  |  | ±0.35 kHz [N]   |   |
|   | 2 • W/N setting : Narrow   |  |   |   |

[L]: [L-band (400–430 MHz)], [M]: [M-band (440–490 MHz)], [H]: [H-band (490–520 MHz)], [W]: 25 kHz, [N]: 12.5 kHz

## SECTION 6 PARTS LIST

## [FRONT UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                                 | M. |
|---------|------------|---|----|
| IC1     | 1130009120 | S.IC SED1526F0A                             | B  |
| IC2     | 1140007631 | S.IC HD6433640A33H FX-2140S                 | B  |
| IC3     | 1110005940 | S.IC S-80842CLMC-B63-T2                     | B  |
| IC4     | 1130005720 | S.IC TC7W04F (TE12L)                        | B  |
| IC5     | 1110003390 | S.IC AN8005M-(E1)                           | B  |
| Q1      | 1530002060 | S.TRANSISTOR 2SC4081 T106 R                 | B  |
| Q2      | 1590001330 | S.TRANSISTOR DTA114EUA T106                 | B  |
| Q3      | 1590000680 | S.TRANSISTOR DTC114EUA T106                 | B  |
| Q4      | 1590001330 | S.TRANSISTOR DTA114EUA T106                 | B  |
| Q5      | 1590000680 | S.TRANSISTOR DTC114EUA T106                 | B  |
| Q6      | 1590000440 | S.TRANSISTOR DTA143ZUA T106                 | B  |
| Q7      | 1590000440 | S.TRANSISTOR DTA143ZUA T106                 | B  |
| Q8      | 1590000440 | S.TRANSISTOR DTA143ZUA T106                 | B  |
| Q9      | 1590000440 | S.TRANSISTOR DTA143ZUA T106                 | B  |
| Q10     | 1590000680 | S.TRANSISTOR DTC114EUA T106                 | B  |
| Q11     | 1590000680 | S.TRANSISTOR DTC114EUA T106                 | B  |
| D1      | 1790001280 | S.DIODE MA111 (TX)                          | B  |
| D2      | 1790001280 | S.DIODE MA111 (TX)                          | B  |
| D3      | 1790001280 | S.DIODE MA111 (TX)                          | B  |
| D4      | 1790001280 | S.DIODE MA111 (TX)                          | B  |
| D5      | 1750000130 | S.DIODE DA204U T106                         | B  |
| D6      | 1750000130 | S.DIODE DA204U T106                         | B  |
| D7      | 1750000130 | S.DIODE DA204U T106                         | B  |
| D8      | 1750000130 | S.DIODE DA204U T106                         | B  |
| D9      | 1750000130 | S.DIODE DA204U T106                         | B  |
| X1      | 6050009870 | S.XTAL CR-567 (9.8304 MHz)                  | B  |
| L1      | 6200001720 | S.COIL NL 322522T-1R0J                      | B  |
| R1      | 7030003810 | S.RESISTOR ERJ3GEYJ 125 V (1.2 M $\Omega$ ) | B  |
| R2      | 7310002820 | S.TRIMMER RV-158 (RH03A3AS5) 474            | B  |
| R3      | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 M $\Omega$ )   | B  |
| R4      | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 k $\Omega$ )   | B  |
| R5      | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R6      | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 k $\Omega$ ) | B  |
| R7      | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 k $\Omega$ )  | B  |
| R8      | 7030003720 | S.RESISTOR ERJ3GEYJ 224 V (220 k $\Omega$ ) | B  |
| R9      | 7030003720 | S.RESISTOR ERJ3GEYJ 224 V (220 k $\Omega$ ) | B  |
| R10     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R11     | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 M $\Omega$ )   | B  |
| R12     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R13     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R15     | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 k $\Omega$ )  | B  |
| R16     | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 k $\Omega$ ) | B  |
| R17     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R18     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R19     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R20     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R21     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R22     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R23     | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 k $\Omega$ ) | B  |
| R24     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 k $\Omega$ )   | B  |
| R25     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 k $\Omega$ )   | B  |
| R26     | 7210002830 | VARIABLE EVU-F2JFK4 B14                     | T  |
| R27     | 7030003340 | S.RESISTOR ERJ3GEYJ 151 V (150 $\Omega$ )   | B  |
| R28     | 7030003340 | S.RESISTOR ERJ3GEYJ 151 V (150 $\Omega$ )   | B  |
| R29     | 7030003370 | S.RESISTOR ERJ3GEYJ 271 V (270 $\Omega$ )   | B  |
| R30     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 k $\Omega$ )   | B  |
| R31     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 k $\Omega$ )   | B  |
| R32     | 7030003390 | S.RESISTOR ERJ3GEYJ 391 V (390 $\Omega$ )   | B  |
| R34     | 7030003360 | S.RESISTOR ERJ3GEYJ 221 V (220 $\Omega$ )   | B  |
| R35     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R36     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R37     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R38     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R39     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R40     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |

## [FRONT UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                                 | M. |
|---------|------------|---|----|
| R41     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R42     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R43     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R44     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R45     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 k $\Omega$ ) | B  |
| R46     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 k $\Omega$ )   | B  |
| R47     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 k $\Omega$ )   | B  |
| R48     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 k $\Omega$ )   | B  |
| R49     | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 k $\Omega$ )  | B  |
| C1      | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T                | B  |
| C2      | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T                | B  |
| C3      | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T                | B  |
| C4      | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T                | B  |
| C5      | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T                | B  |
| C6      | 4030012600 | S.CERAMIC C2012 JB 1A 105M-T                | B  |
| C7      | 4030012600 | S.CERAMIC C2012 JB 1A 105M-T                | B  |
| C8      | 4030008630 | S.CERAMIC C1608 JF 1H 104Z-T                | B  |
| C9      | 4030008680 | S.CERAMIC C1608 JB 1H 102K-T                | B  |
| C10     | 4030009000 | S.CERAMIC C2012 JB 1C 224K-T                | B  |
| C11     | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T                | B  |
| C13     | 4030007030 | S.CERAMIC C1608 CH 1H 150J-T                | B  |
| C14     | 4030007030 | S.CERAMIC C1608 CH 1H 150J-T                | B  |
| C15     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                | B  |
| C16     | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T                | B  |
| C17     | 4030008630 | S.CERAMIC C1608 JF 1H 104Z-T                | B  |
| C18     | 4030008630 | S.CERAMIC C1608 JF 1H 104Z-T                | B  |
| C19     | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T                | B  |
| C20     | 4550006250 | S.TANTALUM TEESVA 1A 106M8L                 | B  |
| C21     | 4550003220 | S.TANTALUM TEESVA 1E 105M8L                 | B  |
| C22     | 4030008630 | S.CERAMIC C1608 JF 1H 104Z-T                | B  |
| C23     | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T                | B  |
| C24     | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T                | B  |
| C25     | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T                | B  |
| C26     | 4030008630 | S.CERAMIC C1608 JF 1H 104Z-T                | B  |
| C27     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                | B  |
| C28     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C29     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C30     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                | B  |
| C31     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                | B  |
| C32     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C33     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C34     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C35     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C36     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C37     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C38     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C39     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C40     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C41     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C42     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C43     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C44     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C45     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C46     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C47     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C48     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C49     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C50     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C51     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| C52     | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T                | B  |
| J1      | 6450001470 | CONNECTOR 95003-2881                        | T  |
| J2      | 6510018030 | S.CONNECTOR 53248-1217                      | B  |
| DS1     | 5030002180 | LCD TSC0712-UFTDHW                          | T  |
| DS2     | 5040002470 | S.LED FY1112H                               | T  |
| DS3     | 5040002470 | S.LED FY1112H                               | T  |
| DS4     | 5040002470 | S.LED FY1112H                               | T  |
| DS5     | 5040002470 | S.LED FY1112H                               | T  |
| DS6     | 5040002470 | S.LED FY1112H                               | T  |
| DS7     | 5040002030 | S.LED CL-170Y-CD-T                          | T  |

Ⓐ: [EUR-01], [EUR-02], [EUR-71], [EUR-72]

Ⓑ: [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

Ⓒ: [EUR-1], [EUR-5], [EUR-8]

Ⓓ: [EUR-8], [EUR-9], [EUR-10], [EUR-11]

Ⓔ: [400-430 MHz]

Ⓕ: [10 W version]

Ⓖ: [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

Ⓗ: [EUR-02], [EUR-13], [EUR-72]

Ⓘ: [EUR-5], [EUR-6], [EUR-7]

Ⓚ: [EUR-12], [EUR-13], [EUR-14]

Ⓛ: [440-490 MHz]

Ⓝ: [EUR-01], [EUR-12], [EUR-71]

Ⓞ: [490-520 MHz]

Ⓟ: [EUR-01], [EUR-02]

Ⓠ: [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[FRONT UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION |                     | M. |
|---------|------------|-------------|---------------------|----|
| DS8     | 5040002030 | S.LED       | CL-170Y-CD-T        | T  |
| DS10    | 5040002030 | S.LED       | CL-170Y-CD-T        | T  |
| DS11    | 5040002030 | S.LED       | CL-170Y-CD-T        | T  |
| DS13    | 5040002030 | S.LED       | CL-170Y-CD-T        | T  |
| DS14    | 5040002030 | S.LED       | CL-170Y-CD-T        | T  |
| DS15    | 5040002030 | S.LED       | CL-170Y-CD-T        | T  |
| DS16    | 5040002030 | S.LED       | CL-170Y-CD-T        | T  |
| W1      | 7030003860 | S.RESISTOR  | ERJ3GE JPW V        | B  |
| W2      | 7030003860 | S.RESISTOR  | ERJ3GE JPW V        | B  |
| W3      | 7030000010 | S.RESISTOR  | MCR10EZHZ JPW (000) | T  |
| W4      | 7030000010 | S.RESISTOR  | MCR10EZHZ JPW (000) | T  |
| EP1     | 0910050602 | PCB         | B 5205B             |    |
| EP2     | 8930048320 | LCD CONTACT | SRCN-2140-SP-N-W    | T  |

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION  |                    | M. |
|---------|------------|--------------|--------------------|----|
| Q22     | 1590000850 | S.TRANSISTOR | DTC114YUA T106     | B  |
| Q23     | 1530003420 | S.TRANSISTOR | 2SC5110-O (TE85R)  | T  |
| Q24     | 1590000850 | S.TRANSISTOR | DTC114YUA T106     | B  |
| Q25     | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | B  |
| Q26     | 1590001330 | S.TRANSISTOR | DTA114EUA T106     | B  |
| Q27     | 1590000720 | S.TRANSISTOR | DTA144EUA T106     | B  |
| Q28     | 1590000720 | S.TRANSISTOR | DTA144EUA T106     | B  |
| Q29     | 1560000530 | S.FET        | 2SK880-GR (TE85R)  | B  |
| Q30     | 1590002290 | S.TRANSISTOR | FMS2A T148         | T  |
| Q31     | 1590002300 | S.TRANSISTOR | FMW2 T148          | T  |
| Q32     | 1530002060 | S.TRANSISTOR | 2SC4081 T106 R     | T  |
| Q33     | 1510000510 | S.TRANSISTOR | 2SA1576A T106R     | T  |
| Q35     | 1530002060 | S.TRANSISTOR | 2SC4081 T106 R     | T  |
| Q36     | 1540000550 | S.TRANSISTOR | 2SD1664 T100Q      | T  |
| Q37     | 1530002850 | S.TRANSISTOR | 2SC4116-BL (TE85R) | T  |
| Q38     | 1540000550 | S.TRANSISTOR | 2SD1664 T100Q      | B  |
| Q39     | 1590000850 | S.TRANSISTOR | DTC114YUA T106     | B  |
| Q40     | 1540000550 | S.TRANSISTOR | 2SD1664 T100Q      | B  |
| Q41     | 1530002850 | S.TRANSISTOR | 2SC4116-BL (TE85R) | B  |
| Q42     | 1520000560 | S.TRANSISTOR | 2SB1123T-TD        | B  |
| Q43     | 1530002060 | S.TRANSISTOR | 2SC4081 T106 R     | B  |
| Q44     | 1560000810 | S.FET        | 2SK1069-4-TL       | T  |
| Q45     | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | T  |
| Q47     | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | T  |
| Q48     | 1530002850 | S.TRANSISTOR | 2SC4116-BL (TE85R) | B  |
| Q50     | 1590001330 | S.TRANSISTOR | DTA114EUA T106     | B  |
| Q51     | 1590000680 | S.TRANSISTOR | DTC114EUA T106     | B  |
| Q52     | 1560000810 | S.FET        | 2SK1069-4-TL       |    |
| Q55     | 1530002060 | S.TRANSISTOR | 2SC4081 T106 R     | B  |
| Q56     | 1590000720 | S.TRANSISTOR | DTA144EUA T106     | B  |
| Q61     | 1530002850 | S.TRANSISTOR | 2SC4116-BL (TE85R) | B  |
| Q62     | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | T  |
| Q64     | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | B  |
| Q65     | 1560000840 | S.FET        | 2SK1829 (TE85R)    | T  |
| Q501    | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | B  |
| Q502    | 1590000720 | S.TRANSISTOR | DTA144EUA T106     | B  |
| Q503    | 1590001650 | S.TRANSISTOR | XP4601 (TX)        | T  |
| Q504    | 1560000810 | S.FET        | 2SK1069-4-TL       | T  |
| Q505    | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | T  |
| Q506    | 1560000810 | S.FET        | 2SK1069-4-TL       | B  |
| Q507    | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | B  |
| Q508    | 1560000840 | S.FET        | 2SK1829 (TE85R)    | B  |
| Q509    | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | B  |
| Q510    | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | B  |
| Q511    | 1590000720 | S.TRANSISTOR | DTA144EUA T106     | B  |
| Q512    | 1530002060 | S.TRANSISTOR | 2SC4081 T106 R     | B  |
| Q513    | 1590000720 | S.TRANSISTOR | DTA144EUA T106     | B  |
| Q514    | 1590000720 | S.TRANSISTOR | DTA144EUA T106     | T  |
| Q515    | 1590000720 | S.TRANSISTOR | DTA144EUA T106     | B  |
| Q516    | 1530002060 | S.TRANSISTOR | 2SC4081 T106 R     | B  |
| Q517    | 1590000430 | S.TRANSISTOR | DTC144EUA T106     | B  |
| Q518    | 1590000680 | S.TRANSISTOR | DTC114EUA T106     | T  |
| D1      | 1790000980 | S.DIODE      | MA742 (TX)         | B  |
| D3      | 1790000980 | S.DIODE      | MA742 (TX)         | B  |
| D4      | 1750000510 | S.DIODE      | UM9401F            | T  |
| D5      | 1750000510 | S.DIODE      | UM9401F            | B  |
| D6      | 1750000510 | S.DIODE      | UM9401F            | B  |
| D7      | 1720000780 | S.VARICAP    | HVU350B TRF        | B  |
| D8      | 1720000780 | S.VARICAP    | HVU350B TRF        | B  |
| D9      | 1720000780 | S.VARICAP    | HVU350B TRF        | B  |
| D10     | 1720000780 | S.VARICAP    | HVU350B TRF        | B  |
| D11     | 1720000780 | S.VARICAP    | HVU350B TRF        | B  |
| D15     | 1790000700 | DIODE        | DSA3A1             | T  |
| D16     | 1750000370 | S.DIODE      | DA221 TL           | B  |
| D17     | 1790000620 | S.DIODE      | MA77 (TX)          | B  |
| D18     | 1790000620 | S.DIODE      | MA77 (TX)          | T  |
| D19     | 1720000270 | S.VARICAP    | 1SV217 (TPH2)      | B  |
| D20     | 1720000270 | S.VARICAP    | 1SV217 (TPH2)      | B  |
| D21     | 1720000270 | S.VARICAP    | 1SV217 (TPH2)      | B  |
| D22     | 1720000270 | S.VARICAP    | 1SV217 (TPH2)      | B  |
| D27     | 1750000130 | S.DIODE      | DA204U T106        | T  |
| D28     | 1750000130 | S.DIODE      | DA204U T106        | B  |
| D29     | 1750000130 | S.DIODE      | DA204U T106        | B  |
| D30     | 1750000550 | S.DIODE      | 1SS355 TE-17       | B  |
| D31     | 1720000360 | S.DIODE      | HSU88TRF           | T  |
| D32     | 1790000980 | S.DIODE      | MA742 (TX)         | T  |
| D33     | 1730002420 | S.ZENER      | MA8160 (TX)        | T  |
| D36     | 1750000550 | S.DIODE      | 1SS355 TE-17       | B  |
| D37     | 1750000550 | S.DIODE      | 1SS355 TE-17       | B  |

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION  |                               | M. |
|---------|------------|--------------|-------------------------------|----|
| IC1     | 1110003571 | S.IC         | MC3372SVMEL                   | B  |
| IC2     | 1130006920 | S.IC         | TA75W01FU (TE12L)             | B  |
| IC3     | 1130007090 | S.IC         | TA75W558FU (TE12L)            | T  |
| IC5     | 1190000350 | S.IC         | M62363FP-650C                 | T  |
| IC7     | 1110003300 | S.IC         | M5282FP 70CD                  | B  |
| IC8     | 1110003090 | IC           | LA4425A                       | T  |
| IC9     | 1130007090 | S.IC         | TA75W558FU (TE12L)            | B  |
| IC10    | 1110003800 | S.IC         | NJM2904V-TE1                  | T  |
| IC11    | 1150001670 | IC           | S-AU27AL (ICOM) / SC-1322 (L) | T  |
|         | 1150001680 | IC           | S-AU27AM (ICOM) / SC-1323 (M) | T  |
|         | 1150001690 | IC           | S-AU27AH (ICOM) / SC-1324 (H) | T  |
| IC12    | 1130007970 | S.IC         | MC145190FR2                   | B  |
| IC13    | 1130007300 | S.IC         | TC4W66FU (TE12L)              | B  |
| IC16    | 1180001250 | S.IC         | TA7808F (TE16L)               | T  |
| IC17    | 1180000970 | S.IC         | AN78L05M-(E1)                 | B  |
| IC18    | 1130007110 | S.IC         | TC7W04FU (TE12L)              | T  |
| IC19    | 1110005940 | S.IC         | S-80842CLMC-B63-T2            | B  |
| IC20    | 1140007640 | S.IC         | HD64F3437F16 2140A [Other]    | T  |
|         | 1140010900 | S.IC         | HD64F3437F16 (EMPTY) (A)      | T  |
| IC21    | 1130006920 | S.IC         | TA75W01FU (TE12L)             | T  |
| IC22    | 1110003410 | S.IC         | μPC5023GR-043-GJG-T2          | T  |
| IC25    | 1130007300 | S.IC         | TC4W66FU (TE12L)              | T  |
| IC26    | 1130007110 | S.IC         | TC7W04FU (TE12L)              | B  |
| IC27    | 1130011280 | S.IC         | CAT25C64SI                    | T  |
| IC501   | 1130011500 | S.IC         | LC73661M                      | B  |
| IC502   | 1130007020 | S.IC         | TC7S66FU (TE85R)              | T  |
| IC503   | 1110002750 | S.IC         | TA75S01F (TE85R)              | B  |
| IC504   | 1130006220 | S.IC         | TC4W53FU (TE12L)              | B  |
| IC505   | 1130008090 | S.IC         | BU4066BCFV-E1                 | B  |
| IC506   | 1110005760 | S.IC         | S-812C50AUA-C3E-T2            | B  |
| Q1      | 1580000490 | S.FET        | 3SK166A-2-T7                  | B  |
| Q2      | 1580000430 | S.FET        | 3SK206-T1 U78 (B)             | B  |
|         | 1580000490 | S.FET        | 3SK166A-2-T7                  | B  |
| Q3      | 1530002920 | S.TRANSISTOR | 2SC4226-T1 R25                | B  |
| Q4      | 1560000430 | S.FET        | 2SK302-GR (TE85R)             | B  |
| Q5      | 1530002850 | S.TRANSISTOR | 2SC4116-BL (TE85R)            | T  |
| Q6      | 1590000680 | S.TRANSISTOR | DTC114EUA T106                | B  |
| Q7      | 1590000990 | S.TRANSISTOR | DTC363EK T146                 | B  |
| Q8      | 1590000680 | S.TRANSISTOR | DTC114EUA T106                | B  |
| Q9      | 1530002060 | S.TRANSISTOR | 2SC4081 T106 R                | T  |
| Q10     | 1530002060 | S.TRANSISTOR | 2SC4081 T106 R                | T  |
| Q11     | 1550000020 | S.FET        | 2SJ377 (TE16R)                | B  |
| Q12     | 1550000020 | S.FET        | 2SJ377 (TE16R)                | B  |
| Q14     | 1590000430 | S.TRANSISTOR | DTC144EUA T106                | B  |
| Q15     | 1530003291 | S.TRANSISTOR | 2SC4703-T1 SE                 | B  |
| Q16     | 1530000371 | S.TRANSISTOR | 2SC3356-T1B R25               | B  |
| Q17     | 1530003310 | S.TRANSISTOR | 2SC5107-O (TE85R)             | B  |
| Q18     | 1530003420 | S.TRANSISTOR | 2SC5110-O (TE85R)             | T  |
| Q19     | 1530003420 | S.TRANSISTOR | 2SC5110-O (TE85R)             | T  |
| Q20     | 1530003420 | S.TRANSISTOR | 2SC5110-O (TE85R)             | T  |
| Q21     | 1530003420 | S.TRANSISTOR | 2SC5110-O (TE85R)             | T  |

(A): [EUR-01], [EUR-02], [EUR-71], [EUR-72]

(C): [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

(E): [EUR-1], [EUR-5], [EUR-8]

(I): [EUR-8], [EUR-9], [EUR-10], [EUR-11]

(L): [400-430 MHz]

(O): [10 W version]

(B): [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

(D): [EUR-02], [EUR-13], [EUR-72]

(G): [EUR-5], [EUR-6], [EUR-7]

(J): [EUR-12], [EUR-13], [EUR-14]

(M): [440-490 MHz]

(E): [EUR-01], [EUR-12], [EUR-71]

(H): [490-520 MHz]

(K): [EUR-01], [EUR-02]

(N): [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                              | M. |
|---------|------------|--|----|
| D38     | 1750000550 | S.DIODE 1SS355 TE-17                     | T  |
| D45     | 1790001280 | S.DIODE MA111 (TX)                       | T  |
| D46     | 1720000400 | S.VARICAP 1SV245 (TPH3)                  | B  |
| D50     | 1750000550 | S.DIODE 1SS355 TE-17                     | B  |
| D51     | 1750000550 | S.DIODE 1SS355 TE-17                     | T  |
| D52     | 1750000260 | S.DIODE 1SS352 (TPH3)                    | B  |
| D501    | 1160000060 | S.DIODE DAN202U T106                     | B  |
| D502    | 1160000060 | S.DIODE DAN202U T106                     | B  |
| D503    | 1790000620 | S.DIODE MA77 (TX)                        | B  |
| D505    | 1750000130 | S.DIODE DA204U T106                      | B  |
| D506    | 1160000060 | S.DIODE DAN202U T106                     | B  |
| D507    | 1720000360 | S.DIODE HSU88TRF                         | T  |
| D508    | 1750000130 | S.DIODE DA204U T106                      | T  |
| D509    | 1160000060 | S.DIODE DAN202U T106                     | T  |
| D510    | 1750000130 | S.DIODE DA204U T106                      | T  |
| D511    | 1750000300 | S.DIODE 1SS302 (TE85R)                   | T  |
| D512    | 1790000620 | S.DIODE MA77 (TX)                        | B  |
| D513    | 1790000620 | S.DIODE MA77 (TX)                        | B  |
| D514    | 1720000780 | S.VARICAP HVU350B TRF                    | B  |
| F11     | 2010002070 | XTAL FL-266 (30.875 MHz) [Other]         | T  |
| F13     | 2030000190 | MONOLITH FL-266 IMD:-95 (30.875 MHz) (B) | T  |
| F14     | 2020001180 | S.CERAMIC SFFCA455KH1A-R1                | T  |
| F15     | 2020001050 | S.CERAMIC SFFCA455KE4A-R1                | T  |
| F16     | 2040001440 | S.LC NFE31PT152Z1E9L (NFM60R20T152)      | T  |
| F16     | 2040001440 | S.LC NFE31PT152Z1E9L (NFM60R20T152)      | T  |
| X1      | 6050008810 | XTAL CR-473 (30.41909 MHz)               | T  |
| X2      | 6070000170 | S.DISCRIMINATOR CDBC455KCAY16-R0         | T  |
| X4      | 6050009870 | S.XTAL CR-567 (9.8304 MHz)               | T  |
| X501    | 6050009961 | S.XTAL CR-573A (12.6 MHz)                | T  |
| X502    | 6060000760 | S.CERAMIC EFOP3584E5                     | T  |
| L1      | 6110003140 | COIL LA-502 (L, M)                       | T  |
| L1      | 6110003150 | COIL LA-505 (H)                          | T  |
| L2      | 6110003140 | COIL LA-502 (L, M)                       | T  |
| L2      | 6110003150 | COIL LA-505 (H)                          | T  |
| L3      | 6110003150 | COIL LA-505                              | T  |
| L4      | 6200005780 | S.COIL 33CS-Y655LY-03K=P3                | T  |
| L5      | 6200005780 | S.COIL 33CS-Y655LY-03K=P3                | T  |
| L6      | 6200008910 | S.COIL 1812CS-122XKBC                    | T  |
| L7      | 6110003140 | COIL LA-502                              | T  |
| L8      | 6200003690 | S.COIL MC152-E558ANA-100051=P3           | T  |
| L9      | 6200003690 | S.COIL MC152-E558ANA-100051=P3 (L, M)    | T  |
| L9      | 6200004110 | S.COIL MC152-E558ANA-100050 (H)          | T  |
| L10     | 6200007830 | S.COIL ELJFC 4R7K-F                      | T  |
| L11     | 6200003690 | S.COIL MC152-E558ANA-100051=P3           | T  |
| L12     | 6200003690 | S.COIL MC152-E558ANA-100051=P3           | T  |
| L13     | 6200003690 | S.COIL MC152-E558ANA-100051=P3           | T  |
| L14     | 6200003960 | S.COIL MLF1608A 1R0K-T                   | T  |
| L15     | 6200003350 | S.COIL ELJNC R27K-F [Other]              | T  |
| L15     | 6200004230 | S.COIL ELJNC R56K-F (B)                  | T  |
| L16     | 6200002120 | S.COIL ELJNC 33NK-F (C)                  | B  |
| L16     | 6200003440 | S.COIL ELJNC 39NK-F [Other]              | B  |
| L17     | 6200001940 | S.COIL ELJNC 27NK-F (M, H)               | B  |
| L17     | 6200002120 | S.COIL ELJNC 33NK-F (L)                  | B  |
| L18     | 6200003960 | S.COIL MLF1608A 1R0K-T                   | T  |
| L19     | 6200007830 | S.COIL ELJFC 4R7K-F                      | T  |
| L20     | 6200003850 | S.COIL 36CS-656LZ-09K=P3                 | T  |
| L21     | 6200003960 | S.COIL MLF1608A 1R0K-T                   | T  |
| L22     | 6200003850 | S.COIL 36CS-656LZ-09K=P3                 | T  |
| L23     | 6200001650 | S.COIL ELJNC 18NK-F                      | B  |
| L24     | 6200001650 | S.COIL ELJNC 18NK-F                      | B  |
| L25     | 6200001750 | S.COIL ELJNC 15NK-F (H)                  | B  |
| L25     | 6200001760 | S.COIL ELJNC 22NK-F (L, M)               | B  |
| L26     | 6200004230 | S.COIL ELJNC R56K-F                      | B  |
| L27     | 6200001750 | S.COIL ELJNC 15NK-F (H)                  | B  |
| L27     | 6200001760 | S.COIL ELJNC 22NK-F (M)                  | B  |
| L27     | 6200001940 | S.COIL ELJNC 27NK-F (L)                  | B  |
| L28     | 6200001750 | S.COIL ELJNC 15NK-F (H)                  | B  |
| L28     | 6200002120 | S.COIL ELJNC 33NK-F (L, M)               | B  |
| L29     | 6200004230 | S.COIL ELJNC R56K-F                      | B  |
| L30     | 6200004230 | S.COIL ELJNC R56K-F                      | B  |
| L31     | 6200001650 | S.COIL ELJNC 18NK-F (M, H)               | T  |
| L31     | 6200001760 | S.COIL ELJNC 22NK-F (L)                  | T  |
| L32     | 6200001760 | S.COIL ELJNC 22NK-F                      | B  |
| L33     | 6200001760 | S.COIL ELJNC 22NK-F                      | B  |

(A): [EUR-01], [EUR-02], [EUR-71], [EUR-72]  
 (C): [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]  
 (E): [EUR-1], [EUR-5], [EUR-8]  
 (D): [EUR-8], [EUR-9], [EUR-10], [EUR-11]  
 (L): [400-430 MHz]  
 (O): [10 W version]

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                                       | M. |
|---------|------------|---|----|
| L35     | 6200001620 | S.COIL ELJFC 1R0K-F [Other]                       | B  |
| L35     | 6200003960 | S.COIL MLF1608A 1R0K-T (B)                        | B  |
| L37     | 6200001620 | S.COIL ELJFC 1R0K-F                               | B  |
| L38     | 6200003690 | S.COIL MC152-E558ANA-100051=P3                    | T  |
| L39     | 6200001620 | S.COIL ELJFC 1R0K-F [Other]                       | B  |
| L39     | 6200002710 | S.COIL ELJFC 1R8K-F (D)                           | B  |
| L40     | 6200004230 | S.COIL ELJNC R56K-F                               | B  |
| L41     | 6200002710 | S.COIL ELJFC 1R8K-F                               | B  |
| L42     | 6200004230 | S.COIL ELJNC R56K-F                               | B  |
| L43     | 6200004110 | S.COIL MC152-E558ANA-100050                       | T  |
| L44     | 6200004230 | S.COIL ELJNC R56K-F                               | B  |
| L45     | 6200002860 | S.COIL NL 252018T-4R7J                            | T  |
| L46     | 6200004230 | S.COIL ELJNC R56K-F                               | B  |
| L47     | 6200004230 | S.COIL ELJNC R56K-F                               | B  |
| L48     | 6200004230 | S.COIL ELJNC R56K-F                               | T  |
| L50     | 6200004230 | S.COIL ELJNC R56K-F                               | T  |
| L51     | 6200001750 | S.COIL ELJNC 15NK-F                               | B  |
| L53     | 6200007030 | S.COIL SLF7032T-101MR45-2                         | T  |
| L54     | 6200004230 | S.COIL ELJNC R56K-F                               | T  |
| L55     | 6200003960 | S.COIL MLF1608A 1R0K-T                            | T  |
| L56     | 6200003960 | S.COIL MLF1608A 1R0K-T                            | T  |
| L57     | 6200003960 | S.COIL MLF1608A 1R0K-T                            | T  |
| L58     | 6200003960 | S.COIL MLF1608A 1R0K-T                            | T  |
| L59     | 6200003960 | S.COIL MLF1608A 1R0K-T                            | T  |
| L60     | 6200003960 | S.COIL MLF1608A 1R0K-T                            | T  |
| L62     | 6200004720 | S.COIL MLF1608D R10K-T                            | B  |
| L63     | 6200003960 | S.COIL MLF1608A 1R0K-T                            | B  |
| L65     | 6200009580 | S.COIL MLG1608B 15NJ-T                            | B  |
| L502    | 6200004720 | S.COIL MLF1608D R10K-T                            | B  |
| L504    | 6200004880 | S.COIL ELJFC 3R3K-F                               | B  |
| L505    | 6200001760 | S.COIL ELJNC 22NK-F                               | B  |
| L506    | 6200004890 | S.COIL ELJFC 3R9K-F                               | B  |
| L507    | 6200006150 | S.COIL LQP21MN47NG01L (LQP21A 47NG00) (L, M) only | B  |
| L508    | 6200007720 | S.COIL LQW2BHN33NJ01L (LQN21A 33NJ04) (A) only    | B  |
| R1      | 7030000220 | S.RESISTOR MCR10EZJH 47 Ω (470)                   | B  |
| R2      | 7030004050 | S.RESISTOR ERJ3GEYJ 1R0 V (1 Ω)                   | B  |
| R4      | 7030000220 | S.RESISTOR MCR10EZJH 47 Ω (470)                   | B  |
| R5      | 7030004050 | S.RESISTOR ERJ3GEYJ 1R0 V (1 Ω)                   | B  |
| R7      | 7030001170 | S.RESISTOR MCR50JZJH 220 Ω (221)                  | T  |
| R8      | 7030001170 | S.RESISTOR MCR50JZJH 220 Ω (221)                  | T  |
| R10     | 7030003700 | S.RESISTOR ERJ3GEYJ 154 V (150 kΩ)                | T  |
| R11     | 7030003700 | S.RESISTOR ERJ3GEYJ 154 V (150 kΩ)                | T  |
| R12     | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | B  |
| R13     | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)                 | T  |
| R14     | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | B  |
| R15     | 7030003300 | S.RESISTOR ERJ3GEYJ 680 V (68 Ω)                  | T  |
| R15     | 7030003340 | S.RESISTOR ERJ3GEYJ 151 V (150 Ω) [Other]         | T  |
| R16     | 7030003360 | S.RESISTOR ERJ3GEYJ 221 V (220 Ω) (B)             | T  |
| R16     | 7030003700 | S.RESISTOR ERJ3GEYJ 154 V (150 kΩ)                | B  |
| R17     | 7030003700 | S.RESISTOR ERJ3GEYJ 154 V (150 kΩ)                | B  |
| R18     | 7030003700 | S.RESISTOR ERJ3GEYJ 154 V (150 kΩ)                | B  |
| R19     | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | B  |
| R21     | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)                 | B  |
| R25     | 7030003370 | S.RESISTOR ERJ3GEYJ 271 V (270 Ω)                 | B  |
| R25     | 7030003380 | S.RESISTOR ERJ3GEYJ 331 V (330 Ω) [Other]         | B  |
| R27     | 7030003530 | S.RESISTOR ERJ3GEYJ 562 V (5.6 kΩ)                | B  |
| R28     | 7030003510 | S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ)                | B  |
| R30     | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)                 | T  |
| R31     | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | B  |
| R33     | 7030003460 | S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ)                | B  |
| R34     | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | B  |
| R35     | 7030003670 | S.RESISTOR ERJ3GEYJ 823 V (82 kΩ)                 | B  |
| R36     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | B  |
| R37     | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)                | B  |
| R38     | 7030003470 | S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ)                | B  |
| R39     | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)                 | B  |
| R40     | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | T  |
| R41     | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)                 | T  |
| R42     | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)                 | B  |
| R44     | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)                 | B  |
| R45     | 7030003650 | S.RESISTOR ERJ3GEYJ 563 V (56 kΩ)                 | B  |
| R46     | 7510000430 | S.THERMISTOR TN20-3K202LT                         | B  |
| R47     | 7030003490 | S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ)                | B  |
| R48     | 7030003430 | S.RESISTOR ERJ3GEYJ 821 V (820 Ω)                 | B  |
| R49     | 7030004050 | S.RESISTOR ERJ3GEYJ 1R0 V (1 Ω)                   | T  |
| R51     | 7030004270 | S.RESISTOR ERJ3EK 4121 V (4.12 kΩ)                | T  |
| R52     | 7030003480 | S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ)                | T  |

(B): [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]  
 (D): [EUR-02], [EUR-13], [EUR-72]  
 (E): [EUR-5], [EUR-6], [EUR-7]  
 (J): [EUR-12], [EUR-13], [EUR-14]  
 (M): [440-490 MHz]  
 (O): [EUR-01], [EUR-12], [EUR-71]  
 (H): [490-520 MHz]  
 (K): [EUR-01], [EUR-02]  
 (N): [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                                | M. |
|---------|------------|--|----|
| R53     | 7030005491 | S.RESISTOR ERA3YKD 363V (36 kΩ)            | T  |
| R61     | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | T  |
| R62     | 7030003460 | S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ)         | T  |
| R63     | 7030004850 | S.RESISTOR ERJ3GEYF 913 V (91 kΩ)          | T  |
| R65     | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)          | T  |
| R67     | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | T  |
| R68     | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)          | B  |
| R69     | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)          | B  |
| R70     | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)         | B  |
| R71     | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R77     | 7030003620 | S.RESISTOR ERJ3GEYJ 333 V (33 kΩ)          | B  |
| R80     | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)          | B  |
| R81     | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R85     | 7030003280 | S.RESISTOR ERJ3GEYJ 470 V (47 Ω)           | B  |
| R86     | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)          | B  |
| R87     | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R88     | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R89     | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)          | B  |
| R90     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R92     | 7030003670 | S.RESISTOR ERJ3GEYJ 823 V (82 kΩ)          | B  |
| R93     | 7030003490 | S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ)         | B  |
| R94     | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R95     | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R96     | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | B  |
| R97     | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | B  |
| R98     | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | T  |
| R99     | 7030003590 | S.RESISTOR ERJ3GEYJ 183 V (18 kΩ)          | T  |
| R100    | 7030003510 | S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) (H)     | T  |
|         | 7030003530 | S.RESISTOR ERJ3GEYJ 562 V (5.6 kΩ) [Other] | T  |
|         | 7030003540 | S.RESISTOR ERJ3GEYJ 682 V (6.8 kΩ) (D)     | T  |
| R101    | 7030003720 | S.RESISTOR ERJ3GEYJ 224 V (220 kΩ)         | T  |
| R102    | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ)         | T  |
| R103    | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ)         | T  |
| R107    | 7030003400 | S.RESISTOR ERJ3GEYJ 471 V (470 Ω)          | B  |
| R108    | 7030000020 | S.RESISTOR MCR10EZJH 1 Ω (010) (L, M)      | B  |
|         | 7030000140 | S.RESISTOR MCR10EZJH 10 Ω (100) (H)        | B  |
| R109    | 7030003480 | S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ)         | B  |
| R110    | 7030003340 | S.RESISTOR ERJ3GEYJ 151 V (150 Ω) (L, M)   | B  |
|         | 7030003360 | S.RESISTOR ERJ3GEYJ 221 V (220 Ω) (H)      | B  |
| R111    | 7030000190 | S.RESISTOR MCR10EZJH 27 Ω (270)            | B  |
| R113    | 7030003240 | S.RESISTOR ERJ3GEYJ 220 V (22 Ω) (H)       | B  |
|         | 7030004040 | S.RESISTOR ERJ3GEYJ 4R7 V (4.7 Ω) (L, M)   | B  |
| R114    | 7030003240 | S.RESISTOR ERJ3GEYJ 220 V (22 Ω)           | B  |
| R115    | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ)         | B  |
| R116    | 7030003290 | S.RESISTOR ERJ3GEYJ 560 V (56 Ω) (H)       | B  |
|         | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω) (L, M)   | B  |
| R117    | 7030003460 | S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ)         | B  |
| R118    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω) (H)      | B  |
|         | 7030003360 | S.RESISTOR ERJ3GEYJ 221 V (220 Ω) (L, M)   | B  |
| R119    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | B  |
| R120    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | B  |
| R121    | 7030003490 | S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ)         | B  |
| R122    | 7030003230 | S.RESISTOR ERJ3GEYJ 180 V (18 Ω) (M, H)    | T  |
|         | 7030003260 | S.RESISTOR ERJ3GEYJ 330 V (33 Ω) (L)       | T  |
| R123    | 7030003350 | S.RESISTOR ERJ3GEYJ 181 V (180 Ω) (L)      | T  |
|         | 7030003370 | S.RESISTOR ERJ3GEYJ 271 V (270 Ω) (M, H)   | T  |
| R124    | 7030003350 | S.RESISTOR ERJ3GEYJ 181 V (180 Ω) (L)      | T  |
|         | 7030003370 | S.RESISTOR ERJ3GEYJ 271 V (270 Ω) (M, H)   | T  |
| R125    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | T  |
| R126    | 7030003540 | S.RESISTOR ERJ3GEYJ 682 V (6.8 kΩ)         | T  |
| R127    | 7030003400 | S.RESISTOR ERJ3GEYJ 471 V (470 Ω)          | T  |
| R128    | 7030003200 | S.RESISTOR ERJ3GEYJ 100 V (10 Ω)           | B  |
| R129    | 7030003550 | S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)         | T  |
| R130    | 7030003400 | S.RESISTOR ERJ3GEYJ 471 V (470 Ω)          | B  |
| R131    | 7030003200 | S.RESISTOR ERJ3GEYJ 100 V (10 Ω)           | B  |
| R132    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | T  |
| R133    | 7030003400 | S.RESISTOR ERJ3GEYJ 471 V (470 Ω)          | T  |
| R134    | 7030003550 | S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)         | B  |
| R135    | 7030003550 | S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)         | B  |
| R136    | 7030004040 | S.RESISTOR ERJ3GEYJ 4R7 V (4.7 Ω)          | T  |
| R137    | 7030003420 | S.RESISTOR ERJ3GEYJ 681 V (680 Ω)          | B  |
| R138    | 7030003550 | S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)         | T  |
| R139    | 7030003550 | S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)         | T  |
| R140    | 7030004040 | S.RESISTOR ERJ3GEYJ 4R7 V (4.7 Ω)          | T  |
| R141    | 7030003420 | S.RESISTOR ERJ3GEYJ 681 V (680 Ω)          | B  |
| R142    | 7510001360 | S.THERMISTOR NTCG20 3SH 333JT              | T  |
| R143    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R146    | 7030003280 | S.RESISTOR ERJ3GEYJ 470 V (47 Ω)           | B  |
| R147    | 7030003280 | S.RESISTOR ERJ3GEYJ 470 V (47 Ω)           | B  |
| R148    | 7030003280 | S.RESISTOR ERJ3GEYJ 470 V (47 Ω)           | T  |
| R149    | 7030003720 | S.RESISTOR ERJ3GEYJ 224 V (220 kΩ)         | B  |

Ⓐ: [EUR-01], [EUR-02], [EUR-71], [EUR-72]

Ⓑ: [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

Ⓒ: [EUR-1], [EUR-5], [EUR-8]

Ⓓ: [EUR-8], [EUR-9], [EUR-10], [EUR-11]

Ⓔ: [400-430 MHz]

Ⓞ: [10 W version]

Ⓟ: [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

Ⓠ: [EUR-02], [EUR-13], [EUR-72]

Ⓡ: [EUR-5], [EUR-6], [EUR-7]

Ⓢ: [EUR-12], [EUR-13], [EUR-14]

Ⓣ: [440-490 MHz]

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                               | M. |
|---------|------------|---|----|
| R150    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | B  |
|         | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) (H)     | B  |
|         | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) (L)     | B  |
| R151    | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) (L, H) | B  |
|         | 7030003770 | S.RESISTOR ERJ3GEYJ 564 V (560 kΩ) (M)    | B  |
| R152    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B  |
| R153    | 7030003410 | S.RESISTOR ERJ3GEYJ 561 V (560 Ω)         | B  |
| R154    | 7030003420 | S.RESISTOR ERJ3GEYJ 681 V (680 Ω)         | B  |
| R155    | 7030003460 | S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) (H)    | B  |
|         | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) (L, M) | B  |
| R156    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (10 MΩ)         | T  |
| R157    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (10 MΩ)         | T  |
| R158    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B  |
| R159    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B  |
| R160    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B  |
| R162    | 7030003200 | S.RESISTOR ERJ3GEYJ 100 V (10 Ω)          | B  |
| R163    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)         | T  |
| R169    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | T  |
| R170    | 7030003550 | S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)        | T  |
| R171    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | T  |
| R172    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | T  |
| R173    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | T  |
| R184    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)         | T  |
| R185    | 7030003590 | S.RESISTOR ERJ3GEYJ 183 V (18 kΩ)         | T  |
| R186    | 7030003430 | S.RESISTOR ERJ3GEYJ 821 V (820 Ω)         | T  |
| R187    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T  |
| R188    | 7030003580 | S.RESISTOR ERJ3GEYJ 153 V (15 kΩ)         | T  |
| R189    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T  |
| R190    | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)         | T  |
| R191    | 7030003400 | S.RESISTOR ERJ3GEYJ 471 V (470 Ω)         | T  |
| R192    | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)         | T  |
| R193    | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)         | T  |
| R194    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | T  |
| R195    | 7030003880 | S.RESISTOR ERJ3GEYJ 244 V (240 kΩ)        | T  |
| R196    | 7030003610 | S.RESISTOR ERJ3GEYJ 273 V (27 kΩ)         | T  |
| R197    | 7030003620 | S.RESISTOR ERJ3GEYJ 333 V (33 kΩ)         | T  |
| R208    | 7030000460 | S.RESISTOR MCR10EZJH 4.7 kΩ               | T  |
| R209    | 7030000460 | S.RESISTOR MCR10EZJH 4.7 kΩ               | T  |
| R210    | 7030000460 | S.RESISTOR MCR10EZJH 4.7 kΩ               | B  |
| R211    | 7030000460 | S.RESISTOR MCR10EZJH 4.7 kΩ               | B  |
| R212    | 7030000460 | S.RESISTOR MCR10EZJH 4.7 kΩ               | B  |
| R213    | 7030000460 | S.RESISTOR MCR10EZJH 4.7 kΩ               | B  |
| R215    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B  |
| R216    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B  |
| R217    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B  |
| R218    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B  |
| R222    | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)        | T  |
| R224    | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) (L, M)  | T  |
|         | 7030003610 | S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) (H)     | T  |
| R226    | 7030003660 | S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) (L)     | T  |
|         | 7030003670 | S.RESISTOR ERJ3GEYJ 823 V (82 kΩ) (M)     | T  |
|         | 7030003690 | S.RESISTOR ERJ3GEYJ 124 V (120 kΩ) (H)    | T  |
| R228    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)         | T  |
| R230    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | T  |
| R231    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | T  |
| R232    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | T  |
| R238    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | B  |
| R239    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | B  |
| R240    | 7030003660 | S.RESISTOR ERJ3GEYJ 683 V (68 kΩ)         | T  |
| R242    | 7030003470 | S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ)        | B  |
| R243    | 7030003460 | S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ)        | B  |
| R244    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T  |
| R245    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T  |
| R246    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T  |
| R247    | 7030003700 | S.RESISTOR ERJ3GEYJ 154 V (150 kΩ)        | T  |
| R248    | 7030003700 | S.RESISTOR ERJ3GEYJ 154 V (150 kΩ)        | T  |
| R249    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T  |
| R250    | 7030003670 | S.RESISTOR ERJ3GEYJ 823 V (82 kΩ)         | T  |
| R251    | 7030003410 | S.RESISTOR ERJ3GEYJ 561 V (560 Ω)         | T  |
| R255    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | T  |
| R256    | 7030003750 | S.RESISTOR ERJ3GEYJ 394 V (390 kΩ)        | T  |
| R257    | 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ)         | T  |
| R258    | 7030003550 | S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)        | B  |
| R259    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)        | B  |
| R260    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)         | B  |
| R261    | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)        | T  |
| R262    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T  |
| R263    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | T  |
| R267    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | T  |
| R268    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B  |
| R269    | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)        | B  |

Ⓔ: [EUR-01], [EUR-12], [EUR-71]

Ⓡ: [490-520 MHz]

Ⓚ: [EUR-01], [EUR-02]

Ⓝ: [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                                | M. |
|---------|------------|--|----|
| R270    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R271    | 7030003720 | S.RESISTOR ERJ3GEYJ 224 V (220 kΩ)         | B  |
| R272    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)           | B  |
| R273    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)           | B  |
| R275    | 7410000950 | S.ARRAY EXB-V8V 102JV                      | T  |
| R276    | 7410000950 | S.ARRAY EXB-V8V 102JV                      | T  |
| R277    | 7410000950 | S.ARRAY EXB-V8V 102JV                      | T  |
| R278    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R281    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R283    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R284    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R285    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R291    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R292    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R293    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R294    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R295    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | T  |
| R296    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R297    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | T  |
| R298    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | T  |
| R300    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | L  |
|         | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)         | H  |
|         | 7030003770 | S.RESISTOR ERJ3GEYJ 564 V (560 kΩ)         | M  |
| R301    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R302    | 7030003570 | S.RESISTOR ERJ3GEYJ 123 V (12 kΩ)          | B  |
| R303    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R304    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R305    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R306    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R307    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R308    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R309    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)           | B  |
| R310    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)           | B  |
| R312    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | T  |
| R313    | 7030003730 | S.RESISTOR ERJ3GEYJ 274 V (270 kΩ)         | B  |
| R314    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω) [Other]  | B  |
|         | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | D  |
| R315    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | B  |
| R316    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)          | B  |
| R317    | 7030003620 | S.RESISTOR ERJ3GEYJ 333 V (33 kΩ)          | T  |
| R319    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | B  |
| R320    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R321    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | B  |
| R322    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)           | B  |
| R323    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)           | B  |
| R324    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)           | B  |
| R325    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R326    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R327    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)         | T  |
| R328    | 7030003400 | S.RESISTOR ERJ3GEYJ 471 V (470 Ω)          | B  |
|         | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)           | D  |
|         | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) [Other] | B  |
| R329    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)           | T  |
| R330    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | T  |
| R333    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R335    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | T  |
| R336    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | T  |
| R337    | 7030003360 | S.RESISTOR ERJ3GEYJ 221 V (220 Ω)          | B  |
| R338    | 7030003650 | S.RESISTOR ERJ3GEYJ 563 V (56 kΩ)          | B  |
| R339    | 7030003610 | S.RESISTOR ERJ3GEYJ 273 V (27 kΩ)          | B  |
| R341    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | T  |
| R342    | 7030003660 | S.RESISTOR ERJ3GEYJ 683 V (68 kΩ)          | T  |
| R348    | 7030003510 | S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ)         | T  |
| R349    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | T  |
| R356    | 7030003250 | S.RESISTOR ERJ3GEYJ 270 V (27 Ω)           | B  |
| R357    | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)         | B  |
| R359    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R360    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R361    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | T  |
| R362    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | T  |
| R363    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | T  |
| R366    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)          | T  |
| R370    | 7030003550 | S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)         | T  |
| R371    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)         | B  |
| R372    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)           | T  |
| R373    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)          | B  |
| R374    | 7030003620 | S.RESISTOR ERJ3GEYJ 333 V (33 kΩ)          | T  |
| R375    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)          | T  |
| R376    | 7310004540 | S.TRIMMER EVM-2WSX80 BQ4 (473)             | T  |
| R377    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)          | T  |
| R382    | 7030003240 | S.RESISTOR ERJ3GEYJ 220 V (22 Ω)           | B  |

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                               | M.   |
|---------|------------|---|------|
| R385    | 7030003370 | S.RESISTOR ERJ3GEYJ 271 V (270 Ω)         | B    |
|         | 7030003410 | S.RESISTOR ERJ3GEYJ 561 V (560 Ω)         | D    |
|         | 7030003430 | S.RESISTOR ERJ3GEYJ 821 V (820 Ω) [Other] | B    |
| R386    | 7030000180 | S.RESISTOR MCR10EZJH 22 Ω (220)           | M    |
|         | 7030000190 | S.RESISTOR MCR10EZJH 27 Ω (270)           | L, H |
| R387    | 7030003450 | S.RESISTOR ERJ3GEYJ 122 V (1.2 kΩ)        | T    |
| R388    | 7510001410 | S.THERMISTOR NTCG20 3FH 222JT             | T    |
| R389    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T    |
| R392    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T    |
| R397    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R398    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R400    | 7030003750 | S.RESISTOR ERJ3GEYJ 394 V (390 kΩ)        | T    |
| R401    | 7030003710 | S.RESISTOR ERJ3GEYJ 184 V (180 kΩ)        | T    |
| R402    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B    |
| R403    | 7030004040 | S.RESISTOR ERJ3GEYJ 4R7 V (4.7 Ω)         | T    |
| R404    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R405    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R406    | 7030003620 | S.RESISTOR ERJ3GEYJ 333 V (33 kΩ)         | T    |
| R407    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | B    |
| R408    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | B    |
| R409    | 7030003460 | S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ)        | B    |
| R410    | 7030003480 | S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ)        | T    |
| R412    | 7030003420 | S.RESISTOR ERJ3GEYJ 681 V (680 Ω)         | B    |
| R415    | 7030000620 | S.RESISTOR MCR10EZJH 100 kΩ               | B    |
| R418    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T    |
| R419    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | T    |
| R420    | 7030003650 | S.RESISTOR ERJ3GEYJ 563 V (56 kΩ)         | T    |
| R421    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | T    |
| R501    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | B    |
| R502    | 7030003580 | S.RESISTOR ERJ3GEYJ 153 V (15 kΩ)         | B    |
| R503    | 7030003570 | S.RESISTOR ERJ3GEYJ 123 V (12 kΩ)         | B    |
| R504    | 7030003570 | S.RESISTOR ERJ3GEYJ 123 V (12 kΩ)         | B    |
| R505    | 7030003570 | S.RESISTOR ERJ3GEYJ 123 V (12 kΩ)         | B    |
| R506    | 7030003580 | S.RESISTOR ERJ3GEYJ 153 V (15 kΩ)         | B    |
| R508    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | T    |
| R509    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | T    |
| R510    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | T    |
| R511    | 7030003710 | S.RESISTOR ERJ3GEYJ 184 V (180 kΩ)        | T    |
| R512    | 7030003510 | S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ)        | T    |
| R513    | 7030003650 | S.RESISTOR ERJ3GEYJ 563 V (56 kΩ)         | T    |
| R514    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | T    |
| R515    | 7030003630 | S.RESISTOR ERJ3GEYJ 393 V (39 kΩ)         | T    |
| R516    | 7030003570 | S.RESISTOR ERJ3GEYJ 123 V (12 kΩ)         | B    |
| R517    | 7030003570 | S.RESISTOR ERJ3GEYJ 123 V (12 kΩ)         | B    |
| R518    | 7030003570 | S.RESISTOR ERJ3GEYJ 123 V (12 kΩ)         | B    |
| R519    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B    |
| R520    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | T    |
| R521    | 7030003710 | S.RESISTOR ERJ3GEYJ 184 V (180 kΩ)        | T    |
| R522    | 7030003720 | S.RESISTOR ERJ3GEYJ 224 V (220 kΩ)        | T    |
| R523    | 7030003650 | S.RESISTOR ERJ3GEYJ 563 V (56 kΩ)         | T    |
| R524    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R525    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)         | B    |
| R526    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R527    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R528    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)          | B    |
| R529    | 7030003750 | S.RESISTOR ERJ3GEYJ 394 V (390 kΩ)        | B    |
| R530    | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ)        | B    |
| R531    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B    |
| R532    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R533    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | B    |
| R534    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)          | T    |
| R535    | 7410000950 | S.ARRAY EXB-V8V 102JV                     | T    |
| R538    | 7410000950 | S.ARRAY EXB-V8V 102JV                     | T    |
| R540    | 7030009591 | S.RESISTOR ERA3YED 472V                   | B    |
| R541    | 7030008121 | S.RESISTOR ERA3YED 682V                   | B    |
| R542    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)         | B    |
| R543    | 7030003430 | S.RESISTOR ERJ3GEYJ 821 V (820 Ω)         | B    |
| R544    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | T    |
| R545    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | T    |
| R546    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | T    |
| R547    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B    |
| R548    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | B    |
| R549    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | B    |
| R550    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | B    |
| R551    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)         | T    |
| R552    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)          | B    |
| R553    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | T    |
| R554    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)        | T    |
| R555    | 7030005651 | S.RESISTOR ERA3YKD 304V (300 kΩ)          | T    |
| R556    | 7030005871 | S.RESISTOR ERA3YKD 104V (100 kΩ)          | B    |
| R558    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)          | B    |

Ⓐ: [EUR-01], [EUR-02], [EUR-71], [EUR-72]

Ⓒ: [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

Ⓔ: [EUR-1], [EUR-5], [EUR-8]

Ⓛ: [EUR-8], [EUR-9], [EUR-10], [EUR-11]

Ⓛ: [400-430 MHz]

Ⓞ: [10 W version]

Ⓑ: [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

Ⓓ: [EUR-02], [EUR-13], [EUR-72]

Ⓖ: [EUR-5], [EUR-6], [EUR-7]

Ⓙ: [EUR-12], [EUR-13], [EUR-14]

Ⓜ: [440-490 MHz]

Ⓔ: [EUR-01], [EUR-12], [EUR-71]

Ⓜ: [490-520 MHz]

Ⓚ: [EUR-01], [EUR-02]

Ⓝ: [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                                       | M. |
|---------|------------|---|----|
| R559    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)                | T  |
| R560    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | T  |
| R561    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | B  |
| R562    | 7030003720 | S.RESISTOR ERJ3GEYJ 224 V (220 kΩ)                | B  |
| R563    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)                 | T  |
| R564    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)                 | T  |
| R565    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)                 | B  |
| R566    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)                 | B  |
| R567    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | T  |
| R568    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | T  |
| R569    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | B  |
| R570    | 7410000950 | S.ARRAY EXB-V8V 102JV                             | T  |
| R571    | 7410000950 | S.ARRAY EXB-V8V 102JV                             | T  |
| R572    | 7410000950 | S.ARRAY EXB-V8V 102JV                             | T  |
| R573    | 7410000950 | S.ARRAY EXB-V8V 102JV                             | T  |
| R574    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | T  |
| R575    | 7410000950 | S.ARRAY EXB-V8V 102JV                             | T  |
| R576    | 7410000950 | S.ARRAY EXB-V8V 102JV                             | T  |
| R577    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | T  |
| R578    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | T  |
| R579    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | T  |
| R580    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | T  |
| R581    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | T  |
| R583    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | B  |
| R584    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)                | B  |
| R585    | 7030003680 | S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)                | B  |
| R586    | 7030003540 | S.RESISTOR ERJ3GEYJ 682 V (6.8 kΩ)                | T  |
| R587    | 7030003540 | S.RESISTOR ERJ3GEYJ 682 V (6.8 kΩ)                | T  |
| R588    | 7030003460 | S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ)                | B  |
| R589    | 7030003610 | S.RESISTOR ERJ3GEYJ 273 V (27 kΩ)                 | B  |
| R590    | 7030003880 | S.RESISTOR ERJ3GEYJ 244 V (240 kΩ)                | B  |
| R591    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | B  |
| R592    | 7030003400 | S.RESISTOR ERJ3GEYJ 471 V (470 Ω)                 | B  |
| R593    | 7030003590 | S.RESISTOR ERJ3GEYJ 183 V (18 kΩ)                 | T  |
| R594    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | B  |
| R595    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)                 | T  |
| R596    | 7030003650 | S.RESISTOR ERJ3GEYJ 563 V (56 kΩ)                 | T  |
| R597    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | B  |
| R598    | 7030003560 | S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)                 | B  |
| R599    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | B  |
| R600    | 7030003200 | S.RESISTOR ERJ3GEYJ 100 V (10 Ω) [Other]          | B  |
| R601    | 7030003230 | S.RESISTOR ERJ3GEYJ 180 V (18 Ω)                  | B  |
| R601    | 7030003200 | S.RESISTOR ERJ3GEYJ 100 V (10 Ω) [Other]          | B  |
| R601    | 7030003230 | S.RESISTOR ERJ3GEYJ 180 V (18 Ω)                  | B  |
| R602    | 7030003300 | S.RESISTOR ERJ3GEYJ 680 V (68 Ω)                  | B  |
| R602    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω) [Other]         | T  |
| R603    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)                 | T  |
| R604    | 7030003500 | S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ)                | F  |
| R604    | 7030003510 | S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) [Other]        | T  |
| R605    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | D  |
| R605    | 7030003480 | S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) [Other]        | T  |
| R605    | 7030003490 | S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ)                | D  |
| R606    | 7030003840 | S.RESISTOR ERJ3GEYJ 225 V (2.2 MΩ)                | B  |
| R607    | 7030003760 | S.RESISTOR ERJ3GEYJ 474 V (470 kΩ)                | T  |
| R608    | 7030003610 | S.RESISTOR ERJ3GEYJ 273 V (27 kΩ)                 | L  |
| R608    | 7030003620 | S.RESISTOR ERJ3GEYJ 333 V (33 kΩ)                 | D  |
| R608    | 7030003630 | S.RESISTOR ERJ3GEYJ 393 V (39 kΩ)                 | H  |
| R608    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)                 | C  |
| R609    | 7030003640 | S.RESISTOR ERJ3GEYJ 473 V (47 kΩ)                 | C  |
| R610    | 7030003710 | S.RESISTOR ERJ3GEYJ 184 V (180 kΩ)                | B  |
| R611    | 7030003520 | S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ)                | T  |
| R613    | 7030003800 | S.RESISTOR ERJ3GEYJ 105 V (1 MΩ)                  | B  |
| R614    | 7030003700 | S.RESISTOR ERJ3GEYJ 154 V (150 kΩ)                | B  |
| R615    | 7030003400 | S.RESISTOR ERJ3GEYJ 471 V (470 Ω)                 | B  |
| R616    | 7030003420 | S.RESISTOR ERJ3GEYJ 681 V (680 Ω) [Other]         | B  |
| R617    | 7030003440 | S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)                  | E  |
| R617    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)                 | B  |
| R618    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)                 | T  |
| R619    | 7030003320 | S.RESISTOR ERJ3GEYJ 101 V (100 Ω)                 | T  |
| R620    | 7030003240 | S.RESISTOR ERJ3GEYJ 220 V (22 Ω) B only           | T  |
| C2      | 4030011050 | S.CERAMIC GRM31M3C2H3R0CY21L (GRM42-6 CJ)         | B  |
| C2      | 4030011060 | S.CERAMIC GRM31M2C2H4R0CY21L (GRM42-6 CH) [Other] | B  |
| C2      | 4030011080 | S.CERAMIC GRM31M2C2H6R0DV01L (GRM42-6 CH) H       | B  |

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                                       | M.      |
|---------|------------|---|---------|
| C3      | 4030011050 | S.CERAMIC GRM31M3C2H3R0CY21L (GRM42-6 CJ)         | T       |
| C3      | 4030011060 | S.CERAMIC GRM31M2C2H4R0CY21L (GRM42-6 CH) L, H    | T       |
| C4      | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                      | B       |
| C5      | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                      | B       |
| C6      | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                      | B       |
| C7      | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                      | B       |
| C8      | 4030011050 | S.CERAMIC GRM31M3C2H3R0CY21L (GRM42-6 CJ)         | T       |
| C8      | 4030011060 | S.CERAMIC GRM31M2C2H4R0CY21L (GRM42-6 CH) M       | T       |
| C8      | 4030011080 | S.CERAMIC GRM31M2C2H6R0DV01L (GRM42-6 CH) H       | T       |
| C8      | 4030011090 | S.CERAMIC GRM31M2C2H7R0DV01L (GRM42-6 CH) [Other] | T       |
| C9      | 4030011020 | S.CERAMIC GRM31M4C2H1R0CY21L (GRM42-6 CK)         | T       |
| C9      | 4030011030 | S.CERAMIC GRM31M4C2H1R5CY21L (GRM42-6 CK) H       | T       |
| C10     | 4030011020 | S.CERAMIC GRM31M4C2H1R0CY21L (GRM42-6 CK)         | T       |
| C10     | 4030011040 | S.CERAMIC GRM31M4C2H2R0CY21L (GRM42-6 CK) H       | T       |
| C11     | 4030011170 | S.CERAMIC GRM31M2C2H180JV01L (GRM42-6 CH)         | T       |
| C11     | 4030011240 | S.CERAMIC GRM31M2C2H470JV01L (GRM42-6 CH) H       | T       |
| C12     | 4030011040 | S.CERAMIC GRM31M4C2H2R0CY21L (GRM42-6 CK) [Other] | T       |
| C12     | 4030011050 | S.CERAMIC GRM31M3C2H3R0CY21L (GRM42-6 CJ) L       | B       |
| C12     | 4030011070 | S.CERAMIC GRM31M2C2H5R0CY21L (GRM42-6 CH) M       | B       |
| C13     | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T                      | T       |
| C14     | 4510004650 | S.ELECTROLYTIC ECEV1EA4R7SR                       | T       |
| C15     | 4030011050 | S.CERAMIC GRM31M3C2H3R0CY21L (GRM42-6 CJ)         | T       |
| C15     | 4030011060 | S.CERAMIC GRM31M2C2H4R0CY21L (GRM42-6 CH) L       | T       |
| C15     | 4030011070 | S.CERAMIC GRM31M2C2H5R0CY21L (GRM42-6 CH) M       | T       |
| C15     | 4030011080 | S.CERAMIC GRM31M2C2H6R0DV01L (GRM42-6 CH) [Other] | T       |
| C16     | 4030011040 | S.CERAMIC GRM31M4C2H2R0CY21L (GRM42-6 CK) H       | T       |
| C16     | 4030011050 | S.CERAMIC GRM31M3C2H3R0CY21L (GRM42-6 CJ)         | T       |
| C16     | 4030011080 | S.CERAMIC GRM31M2C2H6R0DV01L (GRM42-6 CH) M       | T       |
| C17     | 4030011090 | S.CERAMIC GRM31M2C2H7R0DV01L (GRM42-6 CH) L       | T       |
| C17     | 4030011110 | S.CERAMIC GRM31M2C2H9R0DV01L (GRM42-6 CH) D       | B       |
| C18     | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T                      | D       |
| C18     | 4030009530 | S.CERAMIC C1608 CH 1H 030B-T                      | [Other] |
| C19     | 4030009510 | S.CERAMIC C1608 CH 1H 010B-T                      | [Other] |
| C19     | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T                      | L       |
| C19     | 4030009540 | S.CERAMIC C1608 CH 1H 1R5B-T                      | D       |
| C20     | 4030009570 | S.CERAMIC C1608 CH 1H 0R3B-T                      | T       |
| C21     | 4030009500 | S.CERAMIC C1608 CH 1H 0R5B-T                      | C       |
| C21     | 4030009510 | S.CERAMIC C1608 CH 1H 010B-T                      | L       |
| C21     | 4030009560 | S.CERAMIC C1608 CH 1H R75B-T                      | D       |
| C22     | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T                      | H       |
| C22     | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T                      | M       |
| C22     | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T                      | L       |
| C23     | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T                      | L, M    |
| C23     | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T                      | H       |
| C24     | 4030009350 | S.CERAMIC C1608 CH 1H 3R5B-T                      | H       |
| C24     | 4030009540 | S.CERAMIC C1608 CH 1H 1R5B-T                      | L       |
| C24     | 4030009570 | S.CERAMIC C1608 CH 1H 0R3B-T                      | M       |
| C25     | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T                      | M       |
| C25     | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T                      | L, H    |
| C26     | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T                      | B       |
| C27     | 4030009510 | S.CERAMIC C1608 CH 1H 010B-T                      | L only  |
| C28     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                      | B       |
| C29     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T                      | T       |
| C30     | 4030009350 | S.CERAMIC C1608 CH 1H 3R5B-T                      | H       |
| C30     | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T                      | M       |
| C30     | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T                      | L       |

Ⓐ: [EUR-01], [EUR-02], [EUR-71], [EUR-72]

Ⓒ: [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

Ⓔ: [EUR-1], [EUR-5], [EUR-8]

Ⓛ: [EUR-8], [EUR-9], [EUR-10], [EUR-11]

Ⓛ: [400-430 MHz]

Ⓞ: [10 W version]

Ⓑ: [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

Ⓓ: [EUR-02], [EUR-13], [EUR-72]

Ⓖ: [EUR-5], [EUR-6], [EUR-7]

Ⓕ: [EUR-12], [EUR-13], [EUR-14]

Ⓜ: [440-490 MHz]

Ⓔ: [EUR-01], [EUR-12], [EUR-71]

Ⓜ: [490-520 MHz]

Ⓚ: [EUR-01], [EUR-02]

Ⓝ: [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                           | M. |
|---------|------------|---------------------------------------|----|
| C31     | 4030009510 | S.CERAMIC C1608 CH 1H 010B-T [Other]  | B  |
|         | 4030009560 | S.CERAMIC C1608 CH 1H R75B-T (D)      | B  |
| C32     | 4030009350 | S.CERAMIC C1608 CH 1H 3R5B-T (H)      | B  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (L, M)   | B  |
| C33     | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T (L) only | B  |
|         | 4030009540 | S.CERAMIC C1608 CH 1H 1R5B-T (H) only | B  |
| C34     | 4030009510 | S.CERAMIC C1608 CH 1H 010B-T [Other]  | B  |
|         | 4030009560 | S.CERAMIC C1608 CH 1H R75B-T (D)      | B  |
| C35     | 4030009530 | S.CERAMIC C1608 CH 1H 030B-T [Other]  | B  |
|         | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T (E)      | B  |
| C36     | 4030009950 | S.CERAMIC C1608 CH 1H 010B-T (L, H)   | B  |
| C37     | 4030006980 | S.CERAMIC C1608 CH 1H 070D-T (L)      | B  |
|         | 4030009350 | S.CERAMIC C1608 CH 1H 3R5B-T (H)      | B  |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (M)      | B  |
| C39     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | B  |
| C40     | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T (M)      | B  |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (L, H)   | B  |
| C41     | 4030007020 | S.CERAMIC C1608 CH 1H 120J-T          | B  |
| C42     | 4030009350 | S.CERAMIC C1608 CH 1H 3R5B-T (D)      | B  |
|         | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T [Other]  | B  |
|         | 4030009530 | S.CERAMIC C1608 CH 1H 030B-T (C)      | B  |
|         | 4030009550 | S.CERAMIC C1608 CH 1H 2R5B-T (E)      | B  |
| C43     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T [Other]  | B  |
|         | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T (B)      | B  |
| C44     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | T  |
| C45     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | T  |
| C47     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T [Other]  | B  |
|         | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T (E)      | B  |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (D)      | B  |
| C48     | 4550002890 | S.TANTALUM TEESVA 1A 225M8L           | T  |
| C49     | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T          | B  |
| C50     | 4030007140 | S.CERAMIC C1608 CH 1H 121J-T          | B  |
| C51     | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T          | B  |
| C52     | 4030007100 | S.CERAMIC C1608 CH 1H 560J-T          | B  |
| C53     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | T  |
| C54     | 4030009350 | S.CERAMIC C1608 CH 1H 3R5B-T          | T  |
| C55     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | B  |
| C56     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | B  |
| C57     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | B  |
| C58     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | B  |
| C59     | 4030007110 | S.CERAMIC C1608 CH 1H 680J-T          | B  |
| C60     | 4030012600 | S.CERAMIC C2012 JB 1A 105M-T          | B  |
| C61     | 4550002890 | S.TANTALUM TEESVA 1A 225M8L           | B  |
| C62     | 4030007150 | S.CERAMIC C1608 CH 1H 151J-T          | B  |
| C63     | 4030007150 | S.CERAMIC C1608 CH 1H 151J-T          | B  |
| C64     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | T  |
| C65     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | B  |
| C66     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | B  |
| C67     | 4030008920 | S.CERAMIC C1608 JB 1H 473K-T          | T  |
| C68     | 4030008920 | S.CERAMIC C1608 JB 1H 473K-T          | T  |
| C69     | 4030008920 | S.CERAMIC C1608 JB 1H 473K-T          | T  |
| C70     | 4030008920 | S.CERAMIC C1608 JB 1H 473K-T          | T  |
| C71     | 4030008920 | S.CERAMIC C1608 JB 1H 473K-T          | T  |
| C72     | 4550002890 | S.TANTALUM TEESVA 1A 225M8L           | T  |
| C73     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | B  |
| C74     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | B  |
| C75     | 4550003220 | S.TANTALUM TEESVA 1E 105M8L           | B  |
| C83     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | B  |
| C84     | 4550002890 | S.TANTALUM TEESVA 1A 225M8L           | B  |
| C85     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | T  |
| C86     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | T  |
| C87     | 4550002890 | S.TANTALUM TEESVA 1A 225M8L           | T  |
| C90     | 4550006250 | S.TANTALUM TEESVA 1A 106M8L           | B  |
| C91     | 4030006870 | S.CERAMIC C1608 JB 1H 222K-T          | B  |
| C92     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | B  |
| C93     | 4510005290 | S.ELECTROLYTIC ECEV1EA221P            | T  |
| C94     | 4510006260 | S.ELECTROLYTIC ECEV1AA471UP           | T  |
| C95     | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T          | B  |
| C97     | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | B  |
| C98     | 4550002890 | S.TANTALUM TEESVA 1A 225M8L           | B  |
| C100    | 4030010240 | S.CERAMIC C1608 JB 1H 391K-T          | B  |
| C101    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T          | B  |
| C102    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T          | T  |
| C103    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T          | T  |
| C104    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L           | T  |
| C105    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T          | T  |
| C106    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | B  |
| C107    | 4550003170 | S.TANTALUM TEESVA 1D 155M8L           | T  |
| C108    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T          | T  |
| C112    | 4510005630 | S.ELECTROLYTIC ECEV1EA330SP           | T  |
| C115    | 4510004510 | ELECTROLYTIC 25 MV 470 HC             | T  |

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                          | M. |
|---------|------------|--------------------------------------|----|
| C116    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C117    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T         | B  |
| C118    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C120    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | T  |
| C121    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | T  |
| C122    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | T  |
| C123    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T         | T  |
| C124    | 4510005750 | S.ELECTROLYTIC ECEV1EA220SP          | T  |
| C125    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | T  |
| C126    | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (L, M)  | B  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (H)     | B  |
| C127    | 4030007010 | S.CERAMIC C1608 CH 1H 100D-T         | B  |
| C128    | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (L, M)  | B  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (H)     | B  |
| C129    | 4030006980 | S.CERAMIC C1608 CH 1H 070D-T [Other] | B  |
|         | 4030007000 | S.CERAMIC C1608 CH 1H 090D-T (H)     | B  |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (E)     | B  |
| C130    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C131    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C132    | 4030009530 | S.CERAMIC C1608 CH 1H 030B-T (L, M)  | B  |
|         | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T (H)     | B  |
| C133    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T         | B  |
| C134    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C135    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C136    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C137    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C138    | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T (L, M)  | B  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (H)     | B  |
| C139    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C140    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C141    | 4030009530 | S.CERAMIC C1608 CH 1H 030B-T (L)     | B  |
|         | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T (M, H)  | B  |
| C142    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C143    | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T         | T  |
| C144    | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T         | T  |
| C145    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C146    | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (H)     | T  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (L, M)  | T  |
| C147    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | T  |
| C148    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C149    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C150    | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T         | T  |
| C151    | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T         | T  |
| C152    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C153    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | T  |
| C154    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L          | B  |
| C155    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C156    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | T  |
| C157    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | T  |
| C158    | 4030009500 | S.CERAMIC C1608 CH 1H 0R5B-T         | B  |
| C159    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C160    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | T  |
| C161    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | T  |
| C162    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | T  |
| C163    | 4030009500 | S.CERAMIC C1608 CH 1H 0R5B-T         | B  |
| C164    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T         | B  |
| C165    | 4030007000 | S.CERAMIC C1608 CH 1H 090D-T (L)     | T  |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (M, H)  | T  |
| C166    | 4030006980 | S.CERAMIC C1608 CH 1H 070D-T (D)     | T  |
|         | 4030007010 | S.CERAMIC C1608 CH 1H 100D-T (L, H)  | T  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (C)     | T  |
| C167    | 4030007030 | S.CERAMIC C1608 CH 1H 150J-T (L)     | T  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (M, H)  | T  |
| C168    | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T [Other] | B  |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T (C)     | B  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (L)     | B  |
| C169    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T         | B  |
| C170    | 4030006980 | S.CERAMIC C1608 CH 1H 070D-T (L)     | B  |
|         | 4030009350 | S.CERAMIC C1608 CH 1H 3R5B-T (H)     | B  |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T (M)     | B  |
| C171    | 4030006990 | S.CERAMIC C1608 CH 1H 080D-T (M)     | T  |
|         | 4030007030 | S.CERAMIC C1608 CH 1H 150J-T (L)     | T  |
|         | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T (H)     | T  |
| C172    | 4030006980 | S.CERAMIC C1608 CH 1H 070D-T (M)     | T  |
|         | 4030007020 | S.CERAMIC C1608 CH 1H 120J-T (L)     | T  |
|         | 4030009530 | S.CERAMIC C1608 CH 1H 030B-T (H)     | T  |
| C173    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T (L, M)  | T  |
|         | 4030009530 | S.CERAMIC C1608 CH 1H 030B-T (H)     | T  |
| C174    | 4030009500 | S.CERAMIC C1608 CH 1H 0R5B-T (M, H)  | B  |
|         | 4030009560 | S.CERAMIC C1608 CH 1H R75B-T (L)     | B  |
| C176    | 4030007070 | S.CERAMIC C1608 CH 1H 330J-T         | T  |

(A): [EUR-01], [EUR-02], [EUR-71], [EUR-72]

(C): [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

(E): [EUR-1], [EUR-5], [EUR-8]

(I): [EUR-8], [EUR-9], [EUR-10], [EUR-11]

(L): [400-430 MHz]

(O): [10 W version]

(B): [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

(D): [EUR-02], [EUR-13], [EUR-72]

(G): [EUR-5], [EUR-6], [EUR-7]

(J): [EUR-12], [EUR-13], [EUR-14]

(M): [440-490 MHz]

(E): [EUR-01], [EUR-12], [EUR-71]

(H): [490-520 MHz]

(K): [EUR-01], [EUR-02]

(N): [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                  | M. |
|---------|------------|------------------------------|----|
| C177    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T | B  |
| C178    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T  |
| C179    | 4550000550 | S.TANTALUM TEESVA 1V 224M8L  | B  |
| C181    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | B  |
| C182    | 4510005750 | S.ELECTROLYTIC ECEV1EA220SP  | T  |
| C183    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T  |
| C184    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B  |
| C185    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | B  |
| C186    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B  |
| C187    | 4510004630 | S.ELECTROLYTIC ECEV1CA100SR  | T  |
| C191    | 4030006880 | S.CERAMIC C1608 JB 1H 472K-T | T  |
| C197    | 4550006480 | S.TANTALUM TEESVA 1C 475M8L  | T  |
| C200    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | T  |
| C201    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C202    | 4030006870 | S.CERAMIC C1608 JB 1H 222K-T | T  |
| C203    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C204    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | T  |
| C205    | 4030004760 | S.CERAMIC C2012 JF 1H 104Z-T | T  |
| C206    | 4510005290 | S.ELECTROLYTIC ECEV1EA221P   | T  |
| C207    | 4510004630 | S.ELECTROLYTIC ECEV1CA100SR  | T  |
| C208    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | T  |
| C209    | 4550006480 | S.TANTALUM TEESVA 1C 475M8L  | B  |
| C210    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | B  |
| C211    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | B  |
| C212    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B  |
| C214    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L  | B  |
| C216    | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T | B  |
| C217    | 4030006980 | S.CERAMIC C1608 CH 1H 070D-T | B  |
| C218    | 4550006480 | S.TANTALUM TEESVA 1C 475M8L  | T  |
| C224    | 4030008920 | S.CERAMIC C1608 JB 1H 473K-T | T  |
| C225    | 4030011330 | S.CERAMIC C1608 CH 1H 391J-T | T  |
| C226    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | T  |
| C228    | 4030009880 | S.CERAMIC C1608 JB 1H 682K-T | T  |
| C229    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C230    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | B  |
| C231    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B  |
| C233    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C234    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C235    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L  | B  |
| C237    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L  | B  |
| C238    | 4030007130 | S.CERAMIC C1608 CH 1H 101J-T | B  |
| C239    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T | T  |
| C240    | 4030006870 | S.CERAMIC C1608 JB 1H 222K-T | T  |
| C242    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T  |
| C243    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | T  |
| C244    | 4030008920 | S.CERAMIC C1608 JB 1H 473K-T | T  |
| C245    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | T  |
| C246    | 4030008870 | S.CERAMIC C1608 JB 1H 183K-T | B  |
| C247    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B  |
| C250    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C251    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C252    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B  |
| C253    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L  | B  |
| C254    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L  | B  |
| C255    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | T  |
| C256    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C257    | 4030008680 | S.CERAMIC C2012 JF 1C 105Z-T | T  |
| C258    | 4030008680 | S.CERAMIC C2012 JF 1C 105Z-T | T  |
| C259    | 4550003260 | S.TANTALUM TEMSVA 1V 684M-8L | T  |
| C260    | 4030007130 | S.CERAMIC C1608 CH 1H 101J-T | T  |
| C261    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T  |
| C262    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | T  |
| C263    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | T  |
| C264    | 4030004760 | S.CERAMIC C2012 JF 1H 104Z-T | B  |
| C266    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B  |
| C267    | 4510004630 | S.ELECTROLYTIC ECEV1CA100SR  | T  |
| C268    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B  |
| C269    | 4030011810 | S.CERAMIC C1608 JB 1A 224K-T | B  |
| C270    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T | T  |
| C272    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B  |
| C273    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T  |
| C274    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T  |
| C275    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T | T  |
| C276    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T  |
| C277    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T  |
| C278    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B  |
| C279    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B  |
| C280    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L  | B  |
| C281    | 4510006650 | S.ELECTROLYTIC ECEV1EA100SR  | T  |
| C282    | 4030007170 | S.CERAMIC C1608 CH 1H 221J-T | B  |
| C283    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T  |

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                  | M.        |
|---------|------------|------------------------------|-----------|
| C284    | 4030007130 | S.CERAMIC C1608 CH 1H 101J-T | B         |
| C285    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C286    | 4030007170 | S.CERAMIC C1608 CH 1H 221J-T | B         |
| C287    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C288    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C289    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C290    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C291    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C292    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C293    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C294    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C295    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C296    | 4030007080 | S.CERAMIC C1608 CH 1H 390J-T | (E) T     |
|         | 4030007120 | S.CERAMIC C1608 CH 1H 820J-T | (Other) T |
|         | 4030008750 | S.CERAMIC C1608 CH 1H 360J-T | (D) T     |
| C297    | 4030007010 | S.CERAMIC C1608 CH 1H 100D-T | T         |
| C299    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T         |
| C300    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C301    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C302    | 4030004760 | S.CERAMIC C2012 JF 1H 104Z-T | T         |
| C303    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T | B         |
| C305    | 4030009510 | S.CERAMIC C1608 CH 1H 010B-T | B         |
| C306    | 4030009510 | S.CERAMIC C1608 CH 1H 010B-T | (Other) B |
| C306    | 4030009560 | S.CERAMIC C1608 CH 1H R75B-T | (D) B     |
| C306    | 4030009570 | S.CERAMIC C1608 CH 1H 0R3B-T | (H) B     |
| C307    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C310    | 4030006990 | S.CERAMIC C1608 CH 1H 080D-T | (L) B     |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T | (M, H) B  |
| C312    | 4030006990 | S.CERAMIC C1608 CH 1H 080D-T | (L) B     |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T | (M, H) B  |
| C314    | 4510005900 | S.ELECTROLYTIC ECEV0GA101SR  | T         |
| C315    | 4030007160 | S.CERAMIC C1608 CH 1H 181J-T | B         |
| C316    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C318    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T | B         |
| C319    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C320    | 4030008920 | S.CERAMIC C1608 JB 1H 473K-T | T         |
| C321    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |
| C322    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C323    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C324    | 4030009530 | S.CERAMIC C1608 CH 1H 030B-T | (H) B     |
|         | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T | (Other) B |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T | (D) B     |
| C325    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C326    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T | B         |
| C327    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C328    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |
| C329    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C330    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C331    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T | T         |
| C332    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | B         |
| C333    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | B         |
| C334    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | B         |
| C337    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C339    | 4550006480 | S.TANTALUM TEESVA 1C 475M8L  | B         |
| C340    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C341    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C342    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C343    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C344    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C348    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C351    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C352    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C353    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C354    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C355    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C356    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C357    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C358    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C359    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C360    | 4030010210 | S.CERAMIC C3216 JB 1C 105M-T | B         |
| C361    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C362    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T         |
| C363    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C364    | 4550006480 | S.TANTALUM TEESVA 1C 475M8L  | T         |
| C368    | 4550006220 | S.TANTALUM TEESVA 0J 156M8L  | T         |
| C369    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C371    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C374    | 4550006480 | S.TANTALUM TEESVA 1C 475M8L  | B         |
| C376    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T | T         |
| C377    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C378    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |

Ⓐ: [EUR-01], [EUR-02], [EUR-71], [EUR-72]

Ⓑ: [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

Ⓒ: [EUR-1], [EUR-5], [EUR-8]

Ⓓ: [EUR-8], [EUR-9], [EUR-10], [EUR-11]

Ⓔ: [400-430 MHz]

Ⓢ: [10 W version]

Ⓣ: [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

Ⓤ: [EUR-02], [EUR-13], [EUR-72]

Ⓥ: [EUR-5], [EUR-6], [EUR-7]

Ⓦ: [EUR-12], [EUR-13], [EUR-14]

Ⓧ: [440-490 MHz]

Ⓨ: [EUR-01], [EUR-12], [EUR-71]

Ⓩ: [490-520 MHz]

ⓐ: [EUR-01], [EUR-02]

ⓑ: [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                               | M.      |
|---------|------------|---|---------|
| C379    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C380    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C381    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C382    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C383    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C384    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C385    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C386    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C387    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C388    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C389    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C390    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C391    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C392    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C393    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C394    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C395    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C396    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C397    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C398    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C400    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C402    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C403    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C404    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C405    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C406    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C407    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C408    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | B       |
| C409    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C410    | 4510005630 | S.ELECTROLYTIC ECEV1EA330SP               | T       |
| C412    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C413    | 4030006880 | S.CERAMIC C1608 JB 1H 472K-T              | B       |
| C414    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | B       |
| C415    | 4030011040 | S.CERAMIC GRM31M4C2H2R0CY21L (GRM42-6 CK) | T       |
|         | 4030011050 | S.CERAMIC GRM31M3C2H3R0CY21L (GRM42-6 CJ) | T       |
|         | 4030011060 | S.CERAMIC GRM31M2C2H4R0CY21L (GRM42-6 CH) | T       |
| C416    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C417    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C421    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L               | B       |
| C422    | 4030006870 | S.CERAMIC C1608 JB 1H 222K-T              | B       |
| C423    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | B       |
| C424    | 4030006980 | S.CERAMIC C1608 CH 1H 070D-T              | L, M, H |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T              | L, M, H |
| C425    | 4030006980 | S.CERAMIC C1608 CH 1H 070D-T              | L, M, H |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T              | L, M, H |
| C426    | 4030008560 | S.CERAMIC C1608 CH 1H 300J-T              | T       |
| C428    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C429    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C430    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | B       |
| C441    | 4030006850 | S.CERAMIC C1608 JB 1H 471K-T              | T       |
| C443    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C444    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C449    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C451    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T              | T       |
| C452    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C456    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C469    | 4030007170 | S.CERAMIC C1608 CH 1H 221J-T              | B       |
| C478    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | T       |
| C486    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | B       |
| C487    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T              | B       |
| C502    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T              | B       |
| C503    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T              | B       |
| C504    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T              | B       |
| C506    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T              | T       |
| C507    | 4030008880 | S.CERAMIC C1608 JB 1H 223K-T              | T       |
| C508    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L               | T       |
| C509    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T              | T       |
| C510    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T              | T       |
| C511    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T              | B       |
| C512    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T              | B       |
| C513    | 4030007070 | S.CERAMIC C1608 CH 1H 330J-T              | B       |
| C514    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T              | T       |
| C515    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T              | T       |
| C516    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L               | T       |
| C517    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T              | T       |
| C518    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L               | B       |
| C519    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L               | B       |
| C520    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T              | B       |

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION                  | M.        |
|---------|------------|------------------------------|-----------|
| C521    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L  | B         |
| C522    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C524    | 4030006880 | S.CERAMIC C1608 JB 1H 472K-T | B         |
| C525    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C526    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C527    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C528    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C529    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C530    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C531    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C532    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C533    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C534    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C535    | 4030004760 | S.CERAMIC C2012 JF 1H 104Z-T | B         |
| C536    | 4030004760 | S.CERAMIC C2012 JF 1H 104Z-T | B         |
| C537    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C538    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C539    | 4550003260 | S.TANTALUM TEMSVA 1V 684M-8L | T         |
| C540    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T         |
| C541    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T         |
| C542    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C543    | 4550006250 | S.TANTALUM TEESVA 1A 106M8L  | B         |
| C544    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C545    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T | T         |
| C546    | 4030009580 | S.CERAMIC C1608 JB 1H 681K-T | T         |
| C547    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C549    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T | T         |
| C550    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C551    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C552    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C553    | 4030007070 | S.CERAMIC C1608 CH 1H 330J-T | B         |
| C554    | 4030007070 | S.CERAMIC C1608 CH 1H 330J-T | B         |
| C555    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C556    | 4550003220 | S.TANTALUM TEESVA 1E 105M8L  | T         |
| C557    | 4510006090 | S.ELECTROLYTIC ECEV0GA470SR  | T         |
| C558    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | T         |
| C559    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C560    | 4550002890 | S.TANTALUM TEESVA 1A 225M8L  | B         |
| C562    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C563    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C564    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C565    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C567    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C568    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C569    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | T         |
| C570    | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T | B         |
| C571    | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T | B         |
| C572    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |
| C573    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C574    | 4030011600 | S.CERAMIC C1608 JB 1E 104K-T | B         |
| C575    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C576    | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T | H only    |
| C577    | 4030009520 | S.CERAMIC C1608 CH 1H 020B-T | B         |
| C578    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |
| C579    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |
| C580    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |
| C581    | 4030009350 | S.CERAMIC C1608 CH 1H 3R5B-T | [Other] B |
|         | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T | D         |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T | L         |
| C582    | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T | M, H      |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T | L         |
| C583    | 4030009920 | S.CERAMIC C1608 CH 1H 050B-T | M, H      |
|         | 4030011770 | S.CERAMIC C1608 CH 1H 060B-T | L         |
| C584    | 4030009910 | S.CERAMIC C1608 CH 1H 040B-T | B         |
| C585    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T | B         |
|         | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | [Other] T |
| C586    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |
| C587    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | T         |
| C588    | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T | B         |
|         | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | [Other] B |
| C589    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C590    | 4030007010 | S.CERAMIC C1608 CH 1H 100D-T | except B  |
| C591    | 4030006860 | S.CERAMIC C1608 JB 1H 102K-T | B         |
| C592    | 4030007090 | S.CERAMIC C1608 CH 1H 470J-T | B         |
| C600    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T | B only    |
| C601    | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T | B only    |
| C602    | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T | B only    |
| C603    | 4030006900 | S.CERAMIC C1608 JB 1H 103K-T | B only    |
| C604    | 4030007020 | S.CERAMIC C1608 CH 1H 120J-T | B only    |
| C605    | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T | B only    |
| C606    | 4030007050 | S.CERAMIC C1608 CH 1H 220J-T | B only    |

Ⓐ: [EUR-01], [EUR-02], [EUR-71], [EUR-72]

Ⓒ: [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

Ⓔ: [EUR-1], [EUR-5], [EUR-8]

Ⓛ: [EUR-8], [EUR-9], [EUR-10], [EUR-11]

Ⓛ: [400-430 MHz]

Ⓛ: [10 W version]

Ⓑ: [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

Ⓓ: [EUR-02], [EUR-13], [EUR-72]

Ⓖ: [EUR-5], [EUR-6], [EUR-7]

Ⓙ: [EUR-12], [EUR-13], [EUR-14]

Ⓜ: [440-490 MHz]

Ⓔ: [EUR-01], [EUR-12], [EUR-71]

Ⓜ: [490-520 MHz]

Ⓚ: [EUR-01], [EUR-02]

Ⓝ: [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

[MAIN UNIT]

| REF NO. | ORDER NO.  | DESCRIPTION |                    | M.                |
|---------|------------|-------------|--------------------|-------------------|
| C608    | 4030009530 | S.CERAMIC   | C1608 CH 1H 030B-T | Ⓑ only T          |
| C609    | 4030009530 | S.CERAMIC   | C1608 CH 1H 030B-T | Ⓑ only B          |
| C610    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C611    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C612    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C613    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only T          |
| C614    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C615    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only T          |
| C616    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C617    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C618    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C619    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C620    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C621    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C622    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C623    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only T          |
| C624    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only T          |
| C625    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C626    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C627    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only B          |
| C628    | 4030007050 | S.CERAMIC   | C1608 CH 1H 220J-T | Ⓑ only T          |
| C629    | 4030009500 | S.CERAMIC   | C1608 CH 1H 0R5B-T | Ⓓ only B          |
| C630    | 4030007110 | S.CERAMIC   | C1608 CH 1H 680J-T | Ⓑ only B          |
| J2      | 6450000140 | CONNECTOR   | HSJ0807-01-010     | B                 |
| J4      | 6510019250 | S.CONNECTOR | B11B-ZR-SM3-TF     | T                 |
| J5      | 6510018040 | CONNECTOR   | 52330-1217         | T                 |
| J6      | 6510018430 | S.CONNECTOR | AXN330C038P        | T                 |
| J7      | 6510019270 | S.CONNECTOR | 52365-0691         | T                 |
| J501    | 6510021300 | S.CONNECTOR | 52365-1091         | T                 |
| W3      | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | B                 |
| W4      | 8900004540 | CABLE       | OPC-453            | T                 |
| W6      | 7120000470 | JUMPER      | ERDS2T0            | T                 |
| W11     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | Ⓛ only T          |
| W12     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | Ⓜ only T          |
| W13     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | Ⓢ only T          |
| W14     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | ⓐ only T          |
| W21     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | ⓐ only T          |
| W25     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | ⓐ only T          |
| W26     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | ⓐ only T          |
| W27     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | ⓐ only T          |
| W28     | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | ⓐ only T          |
| W505    | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | B                 |
| W506    | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | B                 |
| W507    | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | ⓐ, ⓐ, ⓐ, ⓐ only T |
| W508    | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | B                 |
| W509    | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | T                 |
| W510    | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | B                 |
| W511    | 7030003860 | S.RESISTOR  | ERJ3GE JPW V       | ⓐ only T          |
| EP1     | 0910051253 | PCB         | B 5204C            | [Other]           |
|         | 0910054832 | PCB         | B 5791B            | Ⓑ                 |
| EP2     | 6910010220 | BEAD        | HF70BB3.5X5X1.3    | T                 |
| EP3     | 6910010280 | BEAD        | HF70BB9.5X10.4X4.9 | T                 |
| EP4     | 0880000270 | UNIT BOARD  | EX-1804 #02        | Ⓝ only T          |
| EP5     | 0880001240 | UNIT BOARD  | EX-1761 #02        | Ⓝ only T          |

[TONE UNIT] (UT-96 pre-installed version ONLY)

| REF NO. | ORDER NO.  | DESCRIPTION |             | M. |
|---------|------------|-------------|-------------|----|
| EP1     | 0880000150 | UNIT BOARD  | EX-1643 #02 | T  |

Ⓐ: [EUR-01], [EUR-02], [EUR-71], [EUR-72]

Ⓑ: [EUR-2], [EUR-4], [EUR-6], [EUR-7], [EUR-9], [EUR-11], [EUR-14]

Ⓒ: [EUR-1], [EUR-5], [EUR-8]

Ⓓ: [EUR-8], [EUR-9], [EUR-10], [EUR-11]

Ⓛ: [400-430 MHz]

Ⓜ: [10 W version]

Ⓝ: [EUR-01], [EUR-02], [EUR-12], [EUR-13], [EUR-71], [EUR-72]

Ⓔ: [EUR-02], [EUR-13], [EUR-72]

Ⓕ: [EUR-5], [EUR-6], [EUR-7]

Ⓖ: [EUR-12], [EUR-13], [EUR-14]

Ⓜ: [440-490 MHz]

Ⓔ: [EUR-01], [EUR-12], [EUR-71]

Ⓕ: [490-520 MHz]

Ⓖ: [EUR-01], [EUR-02]

Ⓝ: [EUR-71], [EUR-72]

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)

S.=Surface mount

## SECTION 7 MECHANICAL PARTS AND DISASSEMBLY

### [CHASSIS PARTS]

| REF. NO. | ORDER NO.  | DESCRIPTION                  | QTY. |
|----------|------------|------------------------------|------|
| J1       | 6510004880 | Connector MR-DS-E 01         | 1    |
| MP1      | 8010019000 | 1705 chassis (B)-1           | 1    |
| MP2      | 8810008660 | Screw PH BT M3 × 8 NI-ZU     | 4    |
| MP3      | 8810008660 | Screw PH BT M3 × 8 NI-ZU     | 2    |
| MP4      | 8810008660 | Screw PH BT M3 × 8 NI-ZU     | 2    |
| MP5      | 8810009370 | Screw PH BT M3 × 12 ZK       | 4    |
| MP6      | 8930027480 | 1126 TR-A clip               | 1    |
| MP7      | 8820000870 | 1705 cap screw               | 3    |
| MP8      | 8110006941 | 1705 cover (B)-1             | 1    |
| MP11     | 8930039611 | Thermally sheet (C)-1        | 1    |
| MP15     | 8930039630 | 1706 jack sheet              | 1    |
| MP16     | 8930036771 | 1705 main seal-1             | 1    |
| MP17     | 8930056200 | Shield tape (K) [R&TTE] only | 1    |
| MP18     | 8930056000 | Shield tape (I) [R&TTE] only | 1    |
| MP20     | 8930037760 | Insulation plate             | 1    |

### [FRONT UNIT]

| REF. NO. | ORDER NO.  | DESCRIPTION                   | QTY. |
|----------|------------|-------------------------------|------|
| R26      | 7210002830 | EVU-F2JFK4 B14                | 1    |
| J1       | 6450001470 | Connector 95003-2881          | 1    |
| DS1      | 5030002180 | LCD TSC0712-UFTDHW            | 1    |
| EP2      | 8930048320 | LCD contact SRCN-2140-SP-N-W  | 2    |
| MP1      | 8210015740 | 2140 front panel assembly     | 1    |
| MP2      | 8930047980 | 2140 LCD holder               | 1    |
| MP3      | 8930048290 | 2140 LCD filter               | 1    |
| MP4      | 8210015770 | 2140 reflector                | 1    |
| MP5      | 8930059320 | 2140 front key (B) [BIIS]only | 1    |
|          | 8930047860 | 2140 front key [OTHER]        | 1    |
| MP7      | 8610009840 | Knob N234                     | 1    |
| MP9      | 8810008760 | Screw PH BT M2 × 8 NI-ZU      | 5    |
| MP10     | 8930048910 | 2140 earth plate              | 1    |
| MP11     | 8930049640 | 2141 plate                    | 1    |

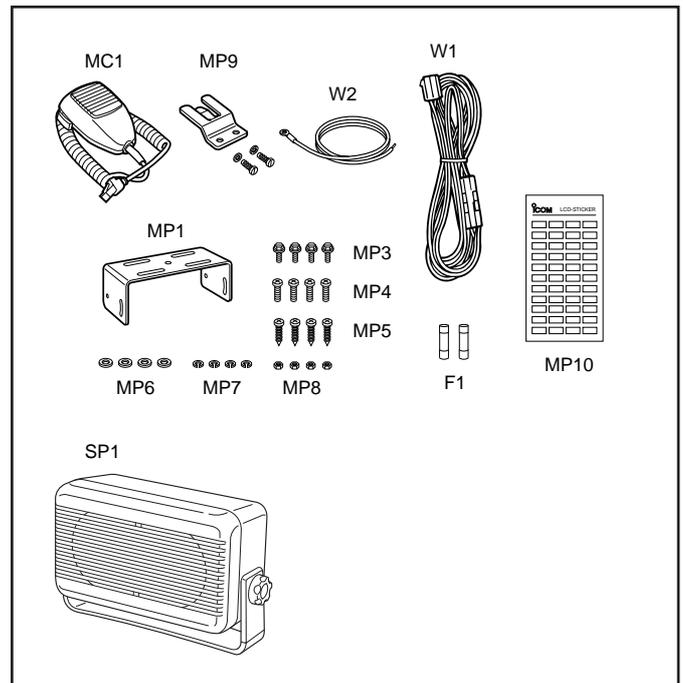
### [MAIN UNIT]

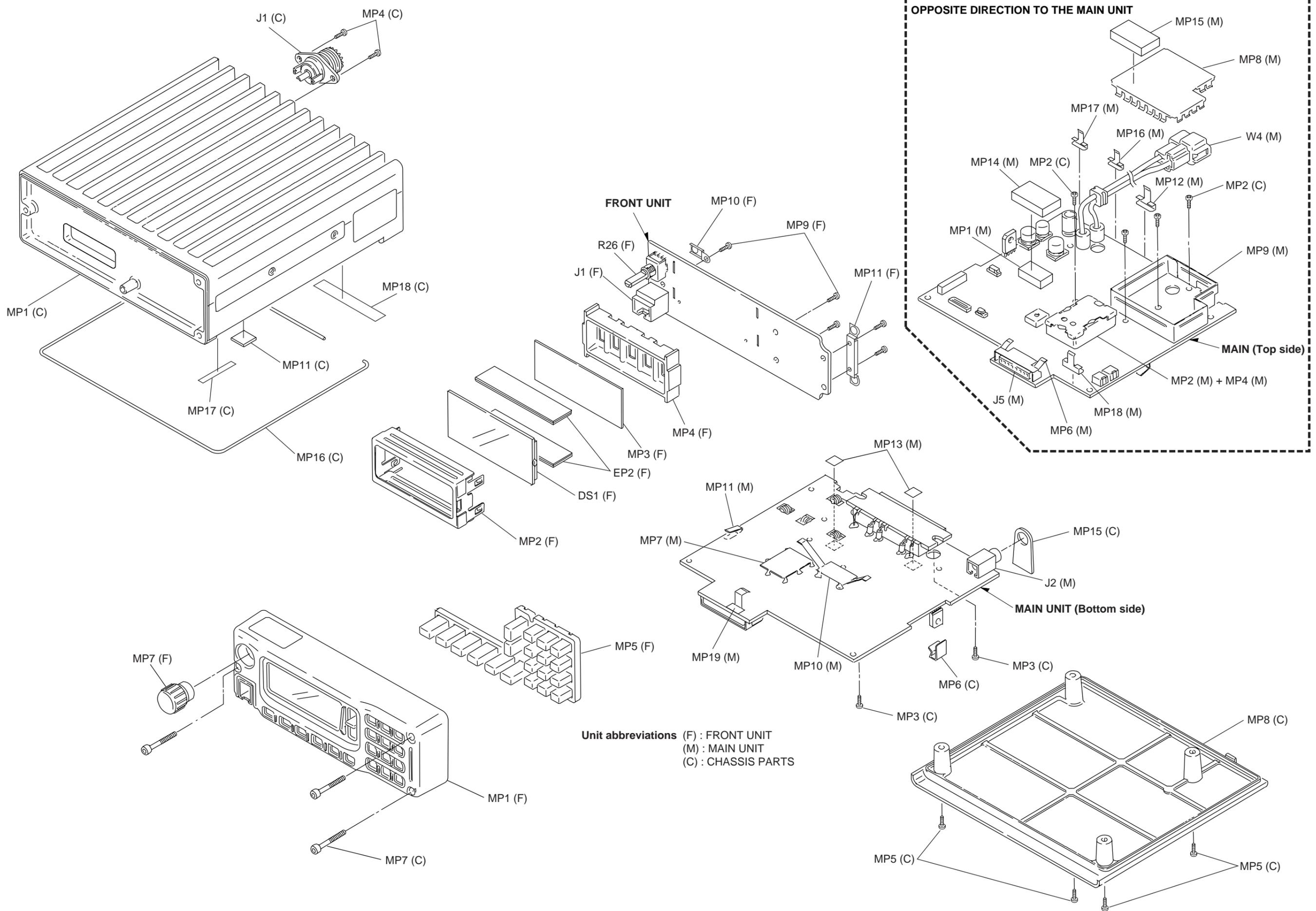
| REF. NO. | ORDER NO.  | DESCRIPTION                             | QTY. |
|----------|------------|---|------|
| J2       | 6450000140 | Connector HJSJ0807-01-010               | 1    |
| J5       | 6510018040 | Connector 52330-1217                    | 1    |
| W4       | 8900004540 | Cable OPC-453                           | 1    |
| MP1      | 8510006810 | DC-DC case                              | 1    |
| MP2      | 8510009980 | 1705 VCO case                           | 1    |
| MP4      | 8510010080 | 1705 VCO cover                          | 1    |
| MP6      | 8930037840 | 1705 connector spring                   | 1    |
| MP7      | 8510005070 | 599 shield plate                        | 1    |
| MP8      | 8510010240 | 1705 LPF cover                          | 1    |
| MP9      | 8510010230 | 1705 LPF case                           | 1    |
| MP10     | 8510010250 | 1705 shield plate                       | 1    |
| MP11     | 8930029511 | 1327 ANT plate-1                        | 1    |
| MP12     | 8930038790 | 1706 spring                             | 1    |
| MP13     | 8930049590 | Sheet (G)                               | 2    |
| MP14     | 8930057730 | Shield sponge (J) [R&TTE] only          | 1    |
| MP15     | 8930057730 | Shield sponge (J) [R&TTE] only          | 1    |
| MP16     | 8930056180 | 1706 rear spring [R&TTE] only           | 1    |
| MP17     | 8930056180 | 1706 rear spring [R&TTE] only           | 1    |
| MP18     | 8930056180 | 1706 rear spring [R&TTE] only           | 1    |
| MP19     | 8930001160 | Earth spring [R&TTE (Middle-band)] only | 1    |
| MP20     | 8930005320 | Filter spacer                           | 2    |

### [ACCESSORIES]

| REF. NO. | ORDER NO.  | DESCRIPTION           | QTY. |
|----------|------------|-----------------------|------|
| F1       | 5210000120 | Fuse FGB 15A          | 2    |
| MC1      | 0800005780 | Microphone HM-100N    | 1    |
| SP1      | 0800005120 | Speaker SP-22         | 1    |
| W1       | 8900003751 | Cable OPC-345         | 1    |
| W2       | 8900000730 | Cable OPC-049         | 1    |
| MP1      | 8010016730 | 150 mounting bracket  | 1    |
| MP3      | 8820000530 | Flange bolt M4 × 8 NI | 4    |
| MP4      | 8810000470 | Screw PH M5 × 12 (+-) | 4    |
| MP5      | 8810005840 | Screw PH A M5 × 20    | 4    |
| MP6      | 8850000150 | Flat washer M5 NI BS  | 4    |
| MP7      | 8850000390 | Spring washer M5      | 4    |
| MP8      | 8830000120 | Nut M5                | 4    |
| MP9      | 6910004210 | 731 MIC hanger set    | 1    |
| MP10     | 8310054790 | 1705 LCD seal (G)     | 1    |

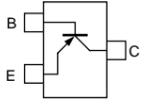
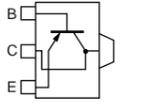
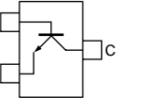
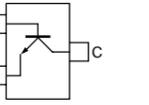
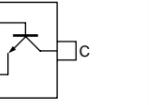
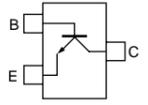
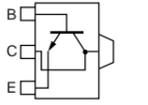
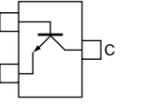
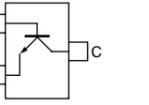
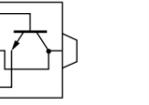
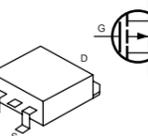
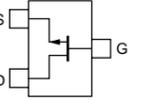
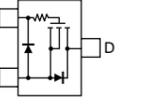
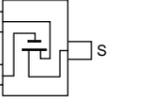
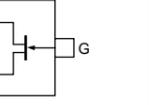
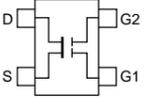
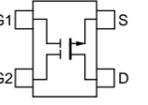
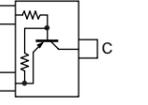
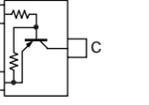
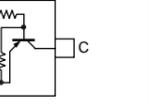
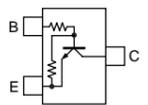
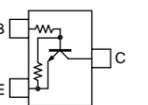
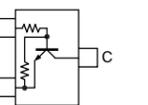
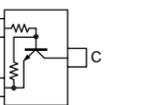
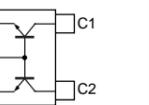
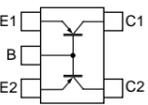
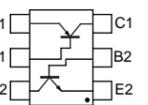
**Screw abbreviations** A, BT: Self-tapping  
 PH: Pan head ZK: Black  
 BS: Brass NI: Nickel  
 NI-ZU: Nickel-Zinc



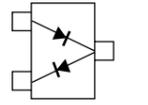
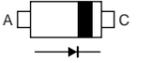
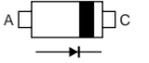
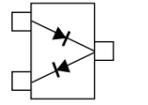
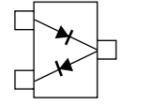
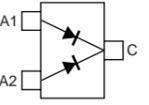
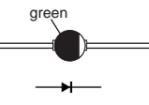
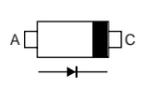
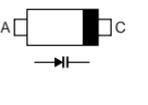
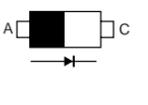
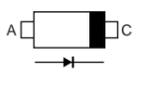
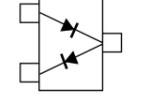
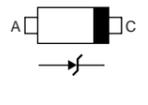
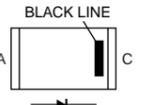


## SECTION 8 SEMI-CONDUCTOR INFORMATION

• TRANSISTORS AND FET'S

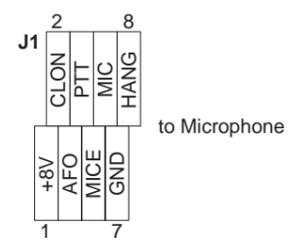
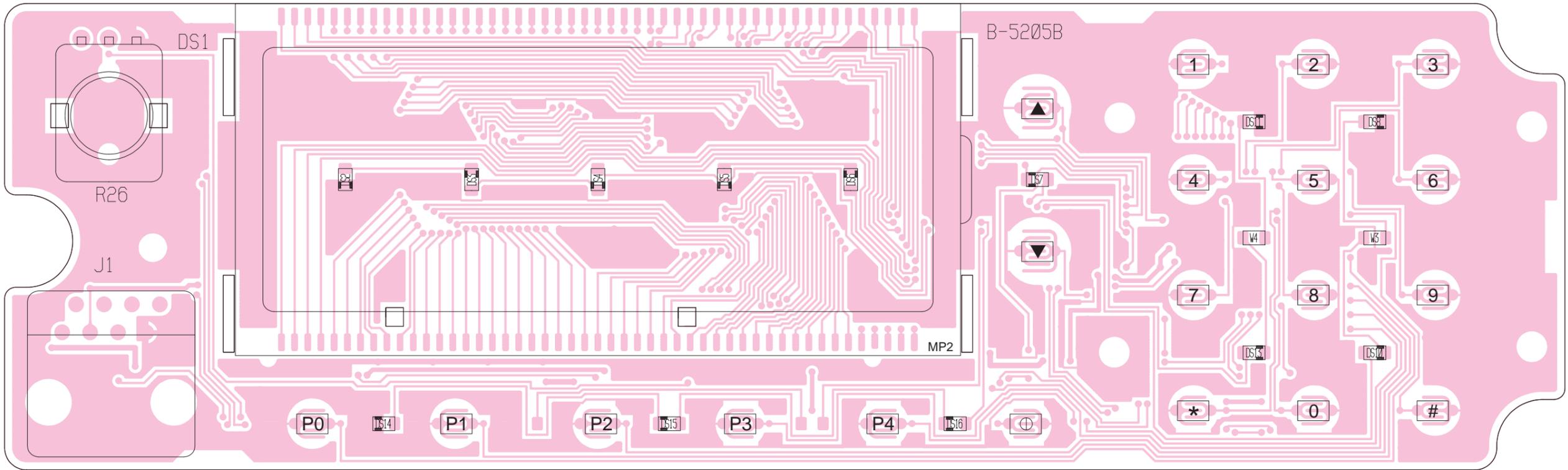
|  |  |   |  |  |
|--|--|---|--|--|
| <b>2SA1576A T106 R</b><br>(Symbol: FR)<br>  | <b>2SB1123 T TD</b><br>(Symbol: BF)<br>     | <b>2SC3356 T1B R25</b><br>(Symbol: R25)<br>  | <b>2SC4081 T106 R</b><br>(Symbol: BR)<br>    | <b>2SC4116 BL</b><br>(Symbol: LL)<br>       |
| <b>2SC4226 T1 R25</b><br>(Symbol: R25)<br>  | <b>2SC4703-T1 SE</b><br>(Symbol: SE)<br>    | <b>2SC5107 O</b><br>(Symbol: MFO)<br>        | <b>2SC5110 O</b><br>(Symbol: MGO)<br>        | <b>2SD1664 T100Q</b><br>(Symbol: DAQ)<br>   |
| <b>2SJ377</b><br>(Symbol: 4L)<br>          | <b>2SK1069 4 TL</b><br>(Symbol: FJ)<br>    | <b>2SK1829</b><br>(Symbol: K1)<br>          | <b>2SK302 GR</b><br>(Symbol: TG)<br>        | <b>2SK880 GR</b><br>(Symbol: XG)<br>       |
| <b>3SK166A-2-T7</b><br>(Symbol: K)<br>    | <b>3SK206 T1 U78</b><br>(Symbol: U78)<br> | <b>DTA114EUA T106</b><br>(Symbol: 14)<br>  | <b>DTA143ZUA T106</b><br>(Symbol: 113)<br> | <b>DTA144EUA T106</b><br>(Symbol: 16)<br> |
| <b>DTC114EUA T106</b><br>(Symbol: 24)<br> | <b>DTC114YUA</b><br>(Symbol: 64)<br>      | <b>DTC144EUA T106</b><br>(Symbol: 26_)<br> | <b>DTC363 EK</b><br>(Symbol: H27)<br>      | <b>FMS2A T148</b><br>(Symbol: S2)<br>     |
| <b>FMW2 T148</b><br>(Symbol: W2)<br>      | <b>XP4601</b><br>(Symbol: 5C)<br>         |   |  |  |

• DIODES

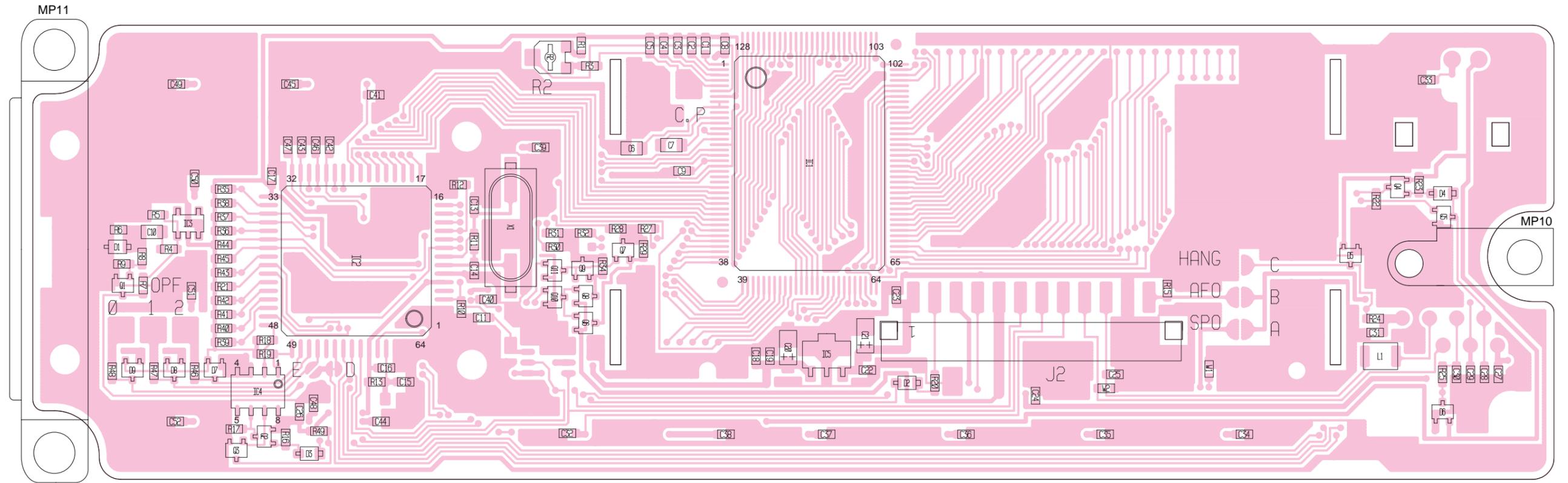
|  |   |  |  |  |
|--|---|--|--|--|
| <b>1SS302</b><br>(Symbol: C3)<br>       | <b>1SS352</b><br>(Symbol: C1)<br>  | <b>1SS355</b><br>(Symbol: A)<br>        | <b>1SV217</b><br>(Symbol: T6)<br>   | <b>1SV245</b><br>(Symbol: T3)<br>     |
| <b>DA204 U T106</b><br>(Symbol: K)<br>  | <b>DA221 TL</b><br>(Symbol: K)<br> | <b>DAN202 U T106</b><br>(Symbol: N)<br> | <b>DSA3A1</b><br>(Color: Green)<br> | <b>HSU88TRF</b><br>(Symbol: 9)<br>    |
| <b>HVU350B TRF</b><br>(Symbol: B0)<br> | <b>MA77</b><br>(Symbol: 4B)<br>   | <b>MA111</b><br>(Symbol: 1B)<br>       | <b>MA742</b><br>(Symbol: M1U)<br>  | <b>MA8160 H</b><br>(Symbol: 16^)<br> |
| <b>UM9401F</b><br>(Symbol: none)<br>  |   |  |  |  |

# SECTION 9 BOARD LAYOUTS

## 9-1 FRONT UNIT • TOP VIEW



• BOTTOM VIEW (FRONT UNIT)

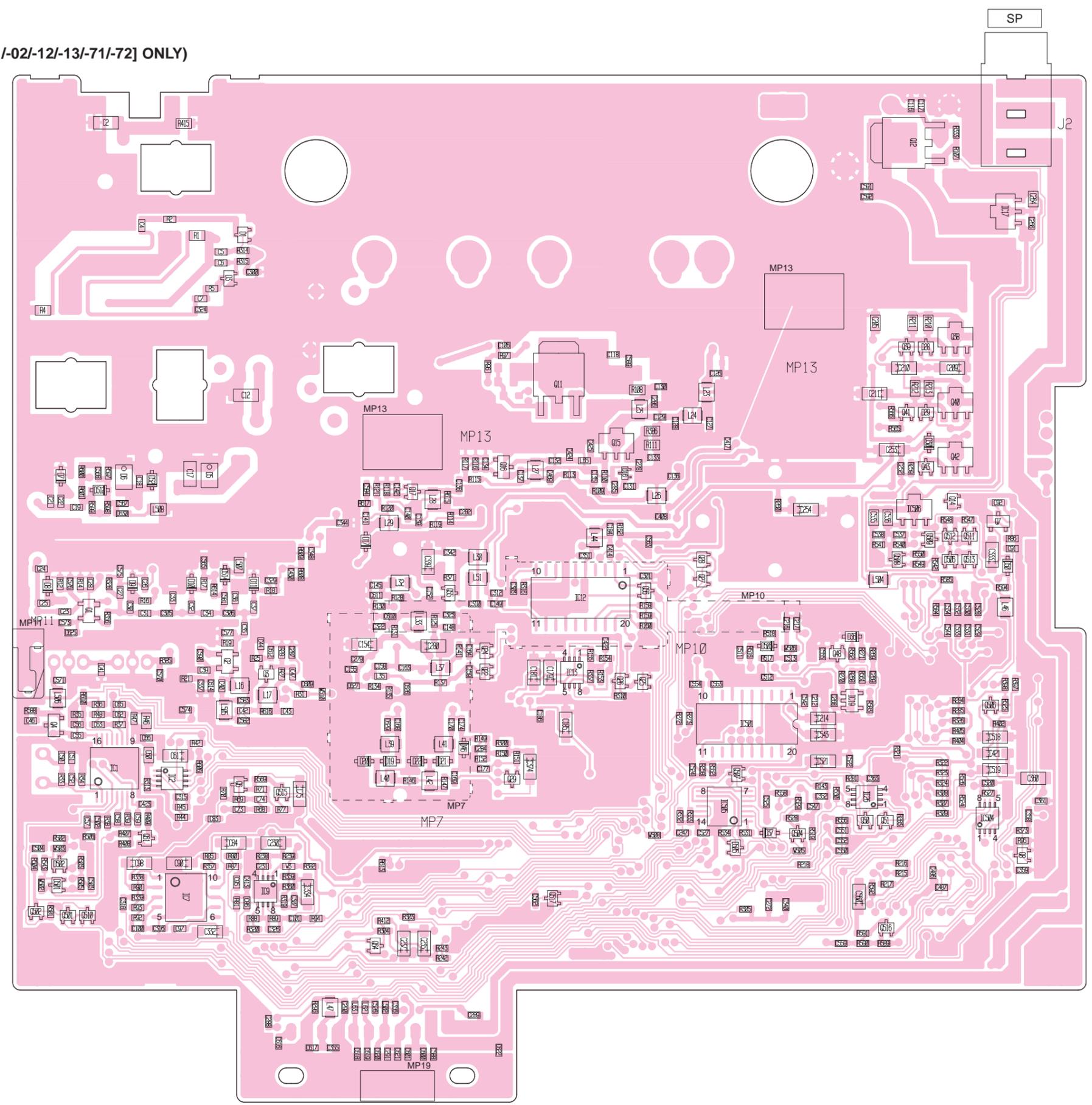


|      |      |
|------|------|
| 1    | 12   |
| VCC  | AFO  |
| SOL  | GND  |
| SP   | MIC  |
| SPE  | MICE |
| +8V  | POSW |
| FTXO | FRXO |
| FRXO | FRXO |
| POSW | POSW |
| MICE | MICE |
| MIC  | MIC  |
| GND  | GND  |
| AFO  | AFO  |

to MAIN unit J5



• BOTTOM VIEW (MAIN UNIT [EUR-01-02-12-13-71-72] ONLY)



9-3 MAIN UNIT ([OTHER])  
• TOP VIEW

**J501**

|    |     |      |     |     |     |
|----|-----|------|-----|-----|-----|
| 10 | GND | GND  | RES | RTS | TXD |
| 9  | VCC | FVPX | CTS | RXD | +5V |

to optional cables  
OPC-821, OPC-822

**J4**

|    |      |
|----|------|
| 11 | PTT  |
|    | GND  |
|    | IN   |
|    | GND  |
|    | DISC |
|    | GND  |
|    | PAAF |
|    | GND  |
|    | HORN |
|    | DIM  |
| 1  | VCC  |

to optional cable  
OPC-617

to optional units  
UT-96, UT-103,  
UT-105, UT-109,  
UT-110

**J6**

|    |          |    |         |
|----|----------|----|---------|
| 1  | PTT IN   | 15 | OPV1    |
| 2  | PTT OUT  | 14 | OPV2    |
| 3  | MIC OUT  | 13 | OPV3    |
| 4  | MIC IN   | 12 | GND     |
| 5  | MIC IN   | 11 | OPT3    |
| 6  | AUX      | 10 | OPT2    |
| 7  | BUSY     | 9  | OPT1    |
| 8  | NC       | 8  | SIG OUT |
| 9  | NC       | 7  | DISC    |
| 10 | RMUT     | 6  | AF OUT  |
| 11 | BEEP OUT | 5  | NC      |
| 12 | AFON     | 4  | CCS     |
| 13 | MMUT     | 3  | CIRQ    |
| 14 | VCC      | 2  | SO      |
| 15 | +5V      | 1  | SI      |
| 16 | GND      |    | SCK     |

**J7**

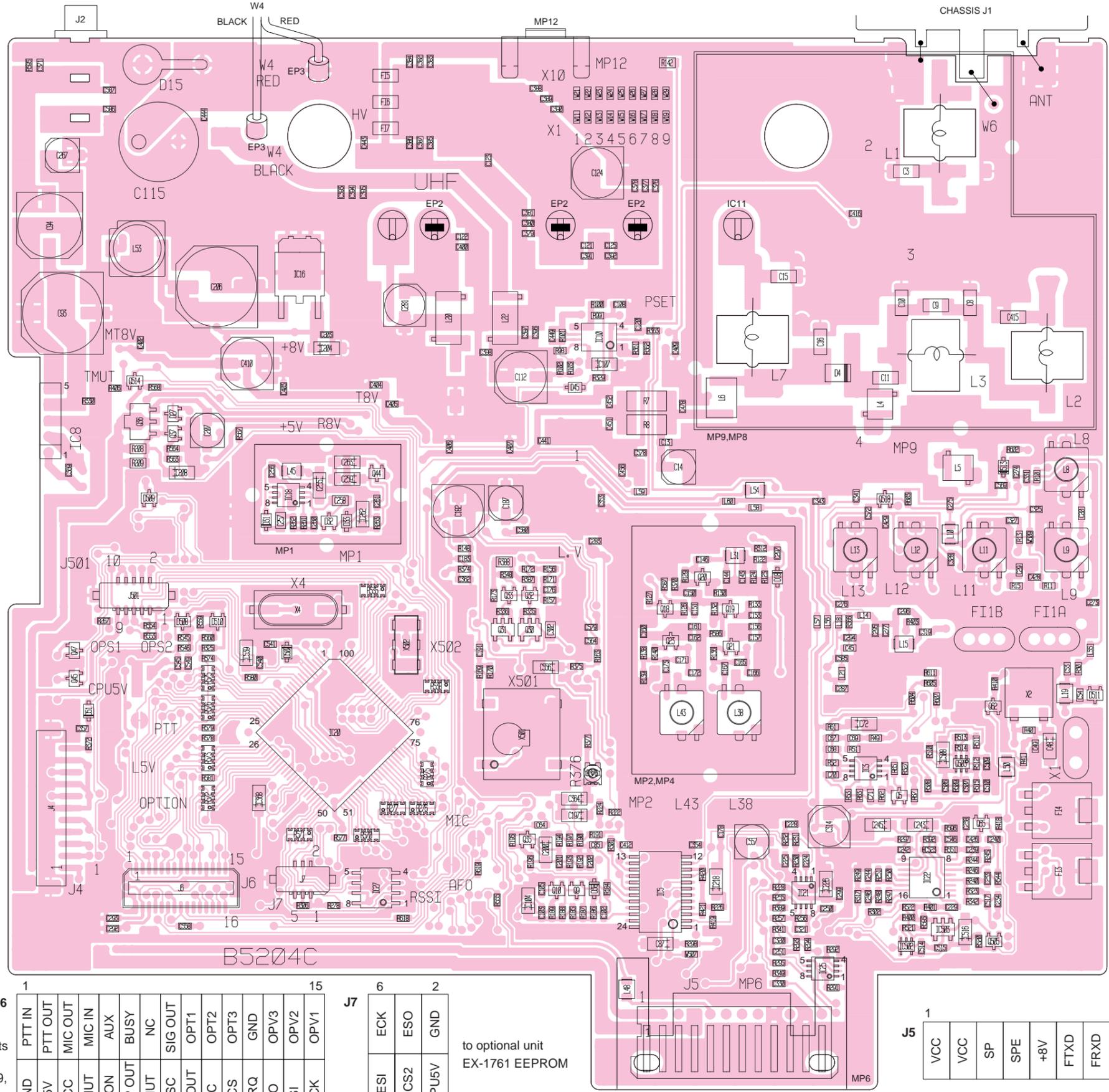
|   |      |   |     |
|---|------|---|-----|
| 6 | ECK  | 2 | GND |
| 5 | ESI  | 1 | ESO |
|   | ES2  |   | ES1 |
|   | ES3  |   | ES0 |
|   | ES4  |   | ES3 |
|   | ES5  |   | ES2 |
|   | ES6  |   | ES1 |
|   | ES7  |   | ES0 |
|   | ES8  |   | ES7 |
|   | ES9  |   | ES6 |
|   | ES10 |   | ES5 |
|   | ES11 |   | ES4 |
|   | ES12 |   | ES3 |
|   | ES13 |   | ES2 |
|   | ES14 |   | ES1 |
|   | ES15 |   | ES0 |

to optional unit  
EX-1761 EEPROM

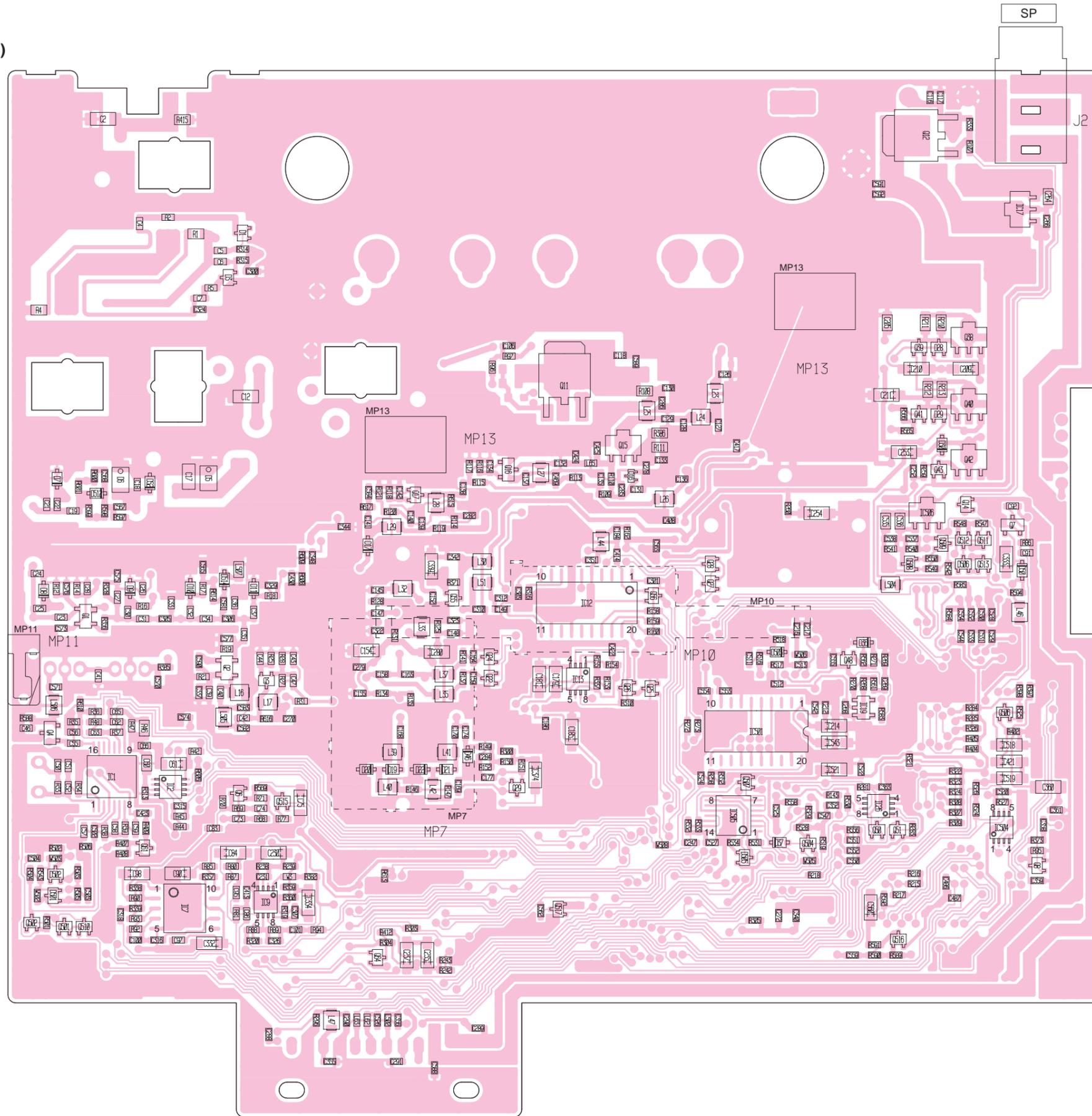
**J5**

|    |      |    |      |
|----|------|----|------|
| 1  | VCC  | 12 | AFO  |
| 2  | VCC  | 11 | GND  |
| 3  | SP   | 10 | MIC  |
| 4  | SPE  | 9  | MICE |
| 5  | +8V  | 8  | POSW |
| 6  | FTXD | 7  | FRXD |
| 7  | FRXD | 6  | FTXD |
| 8  | POSW | 5  | +8V  |
| 9  | MICE | 4  | SPE  |
| 10 | MIC  | 3  | SP   |
| 11 | GND  | 2  | VCC  |
| 12 | AFO  | 1  | VCC  |

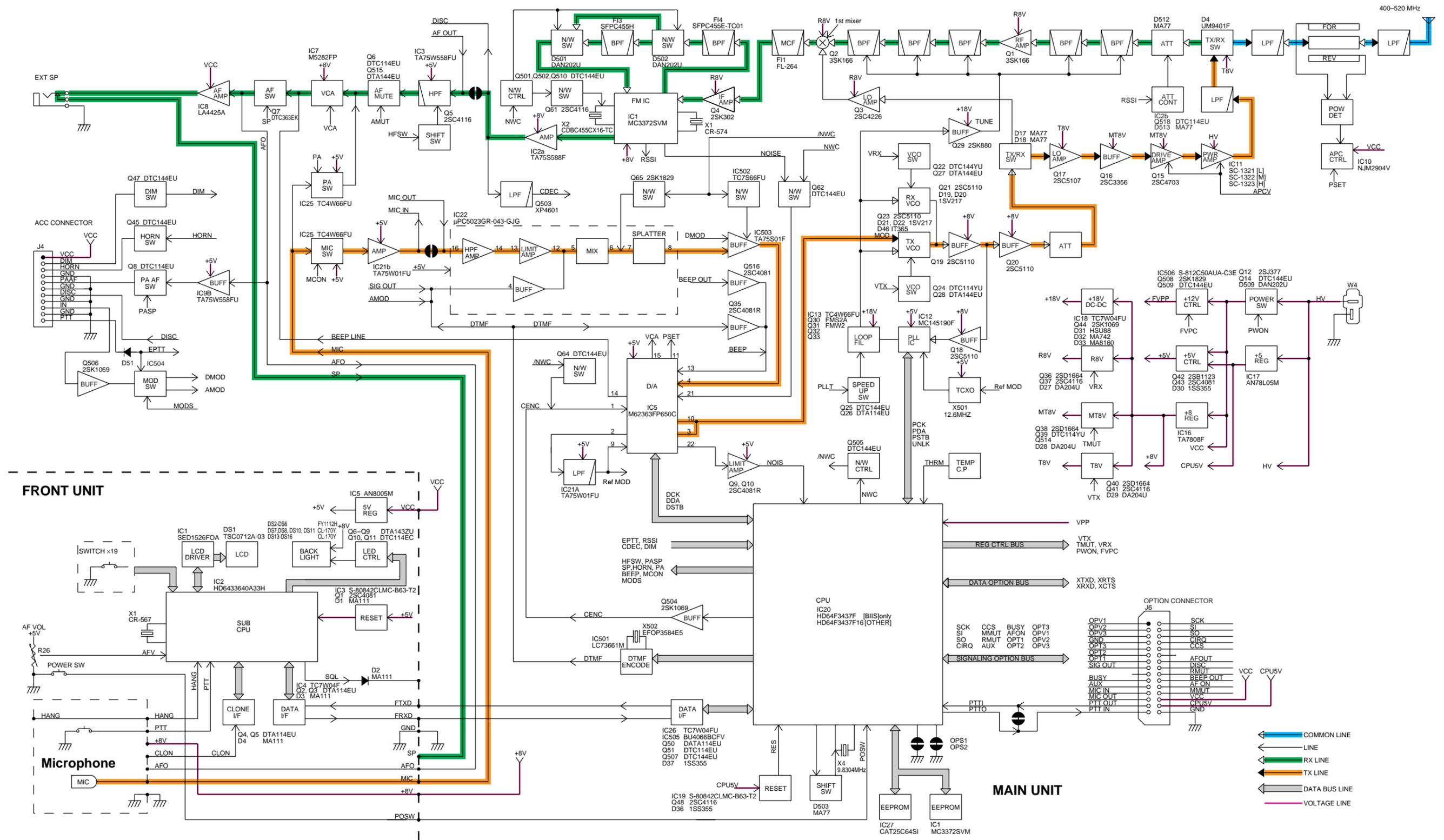
to FRONT unit J2



• BOTTOM VIEW (MAIN UNIT [OTHER])

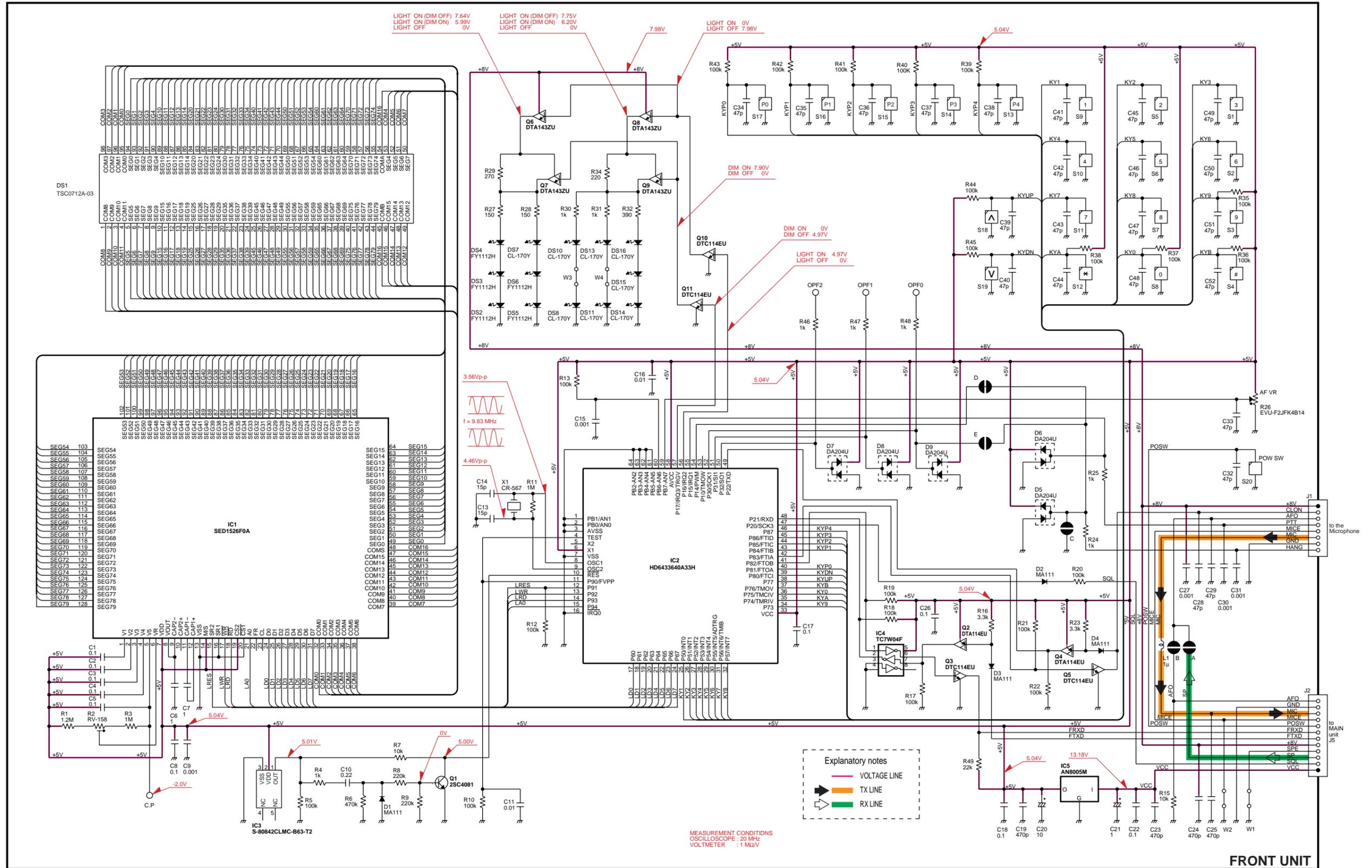


SECTION 10 BLOCK DIAGRAM



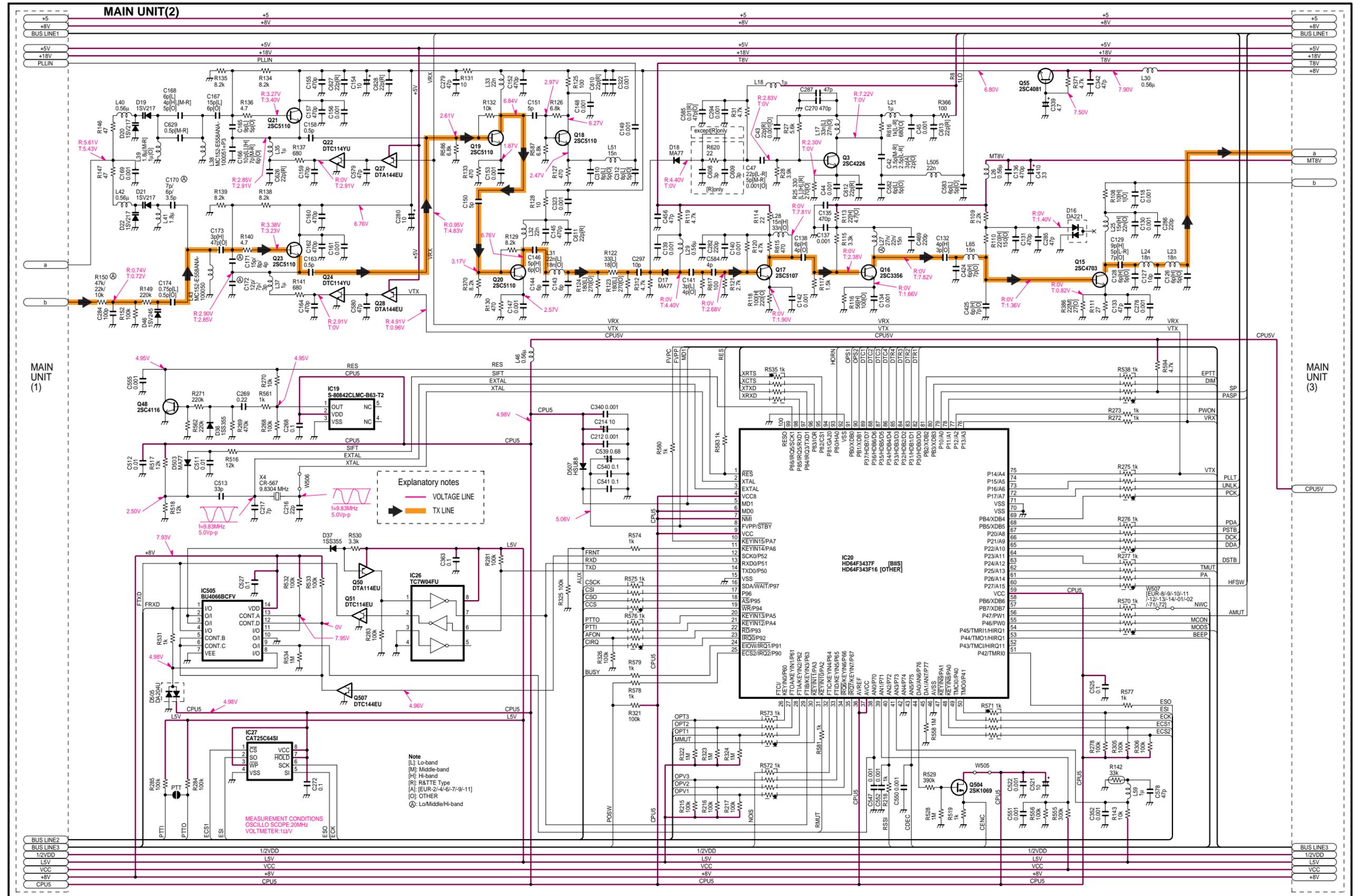
# SECTION 11 VOLTAGE DIAGRAMS

## 11-1 FRONT UNIT

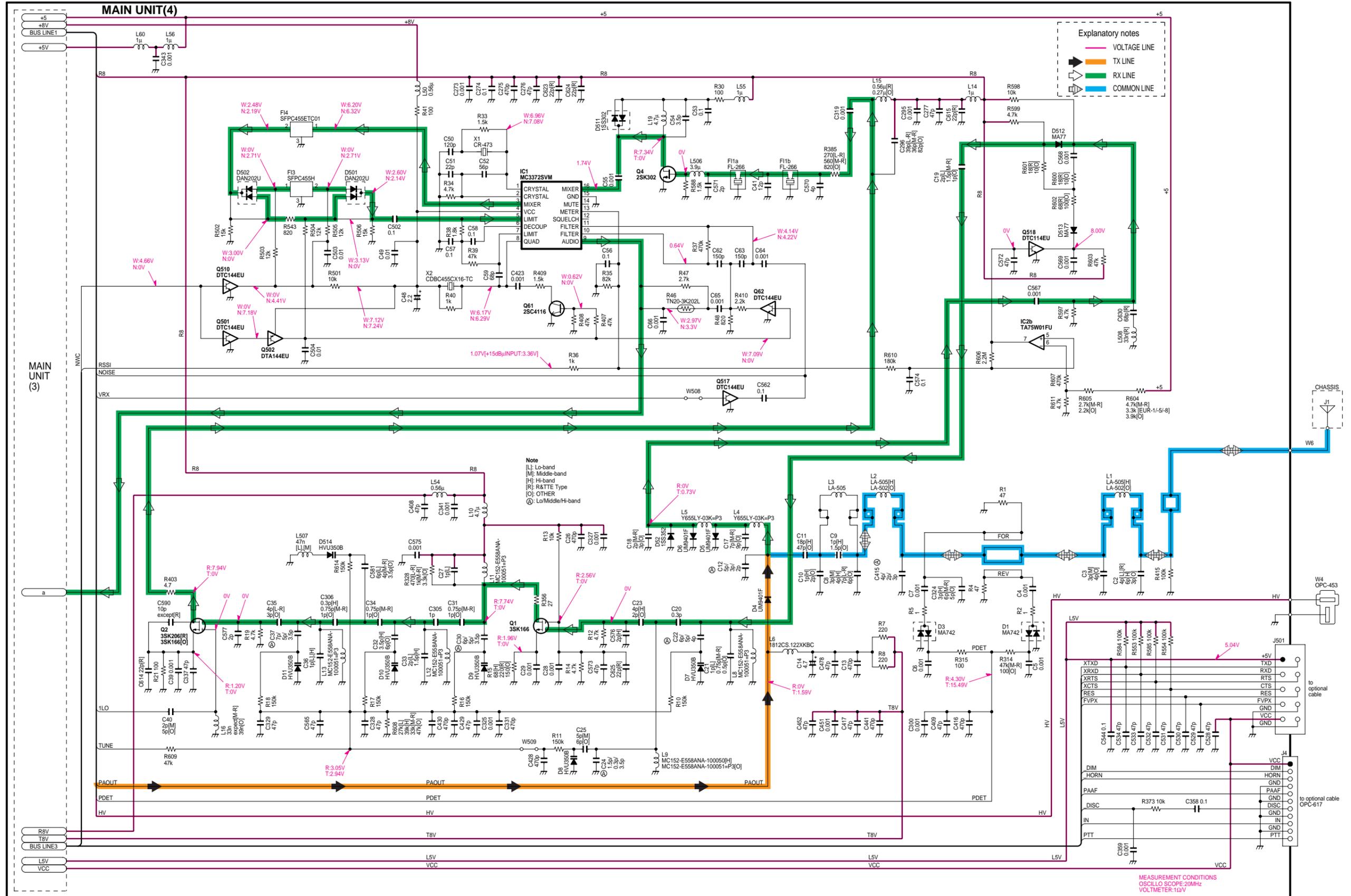


FRONT UNIT



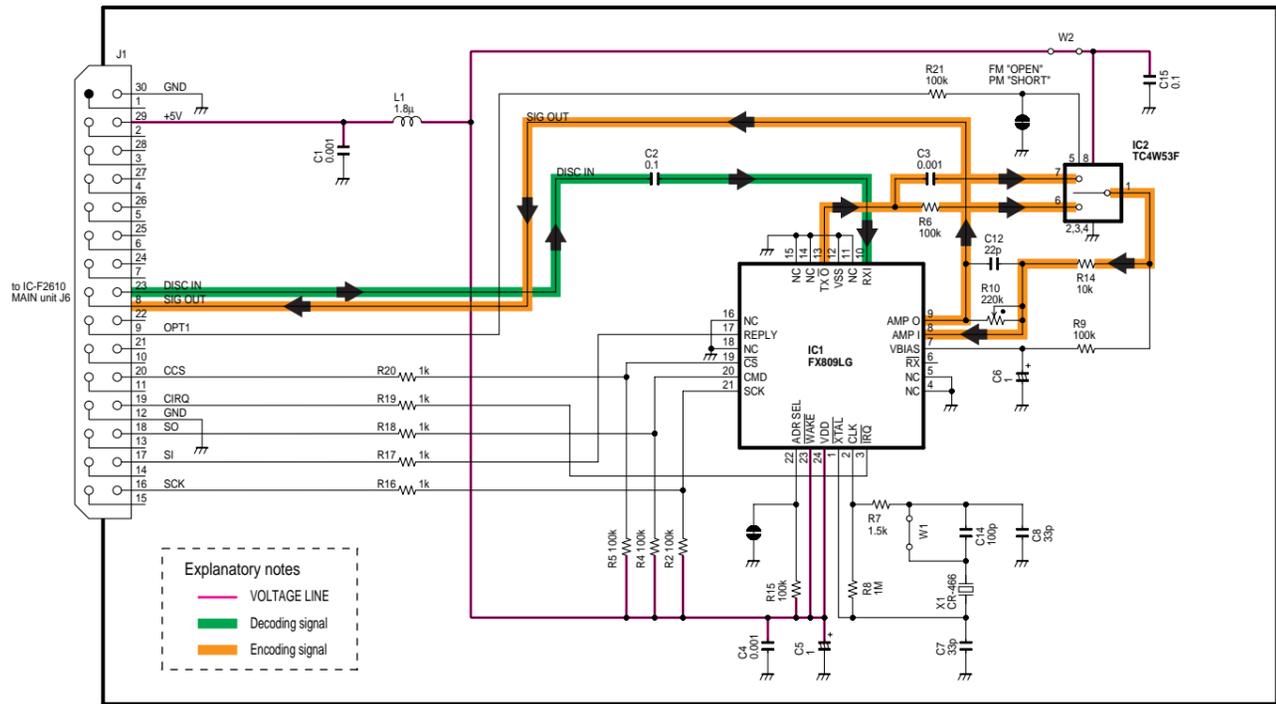




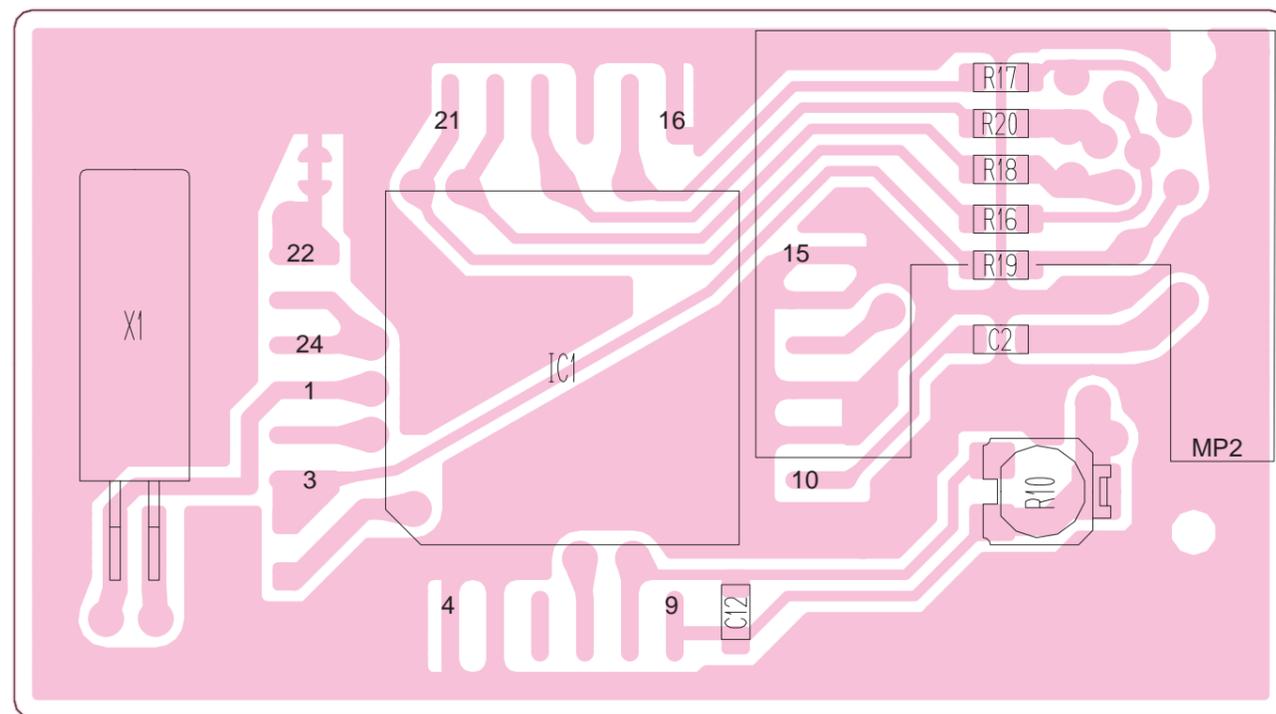


## SECTION 12 OPTIONAL UNIT UT-103

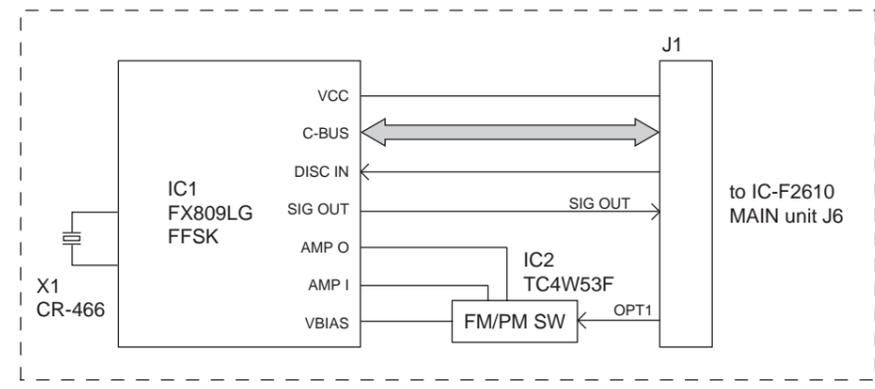
### • SCHEMATIC DIAGRAM



### • BOARD LAOUT (TOP VEIW)



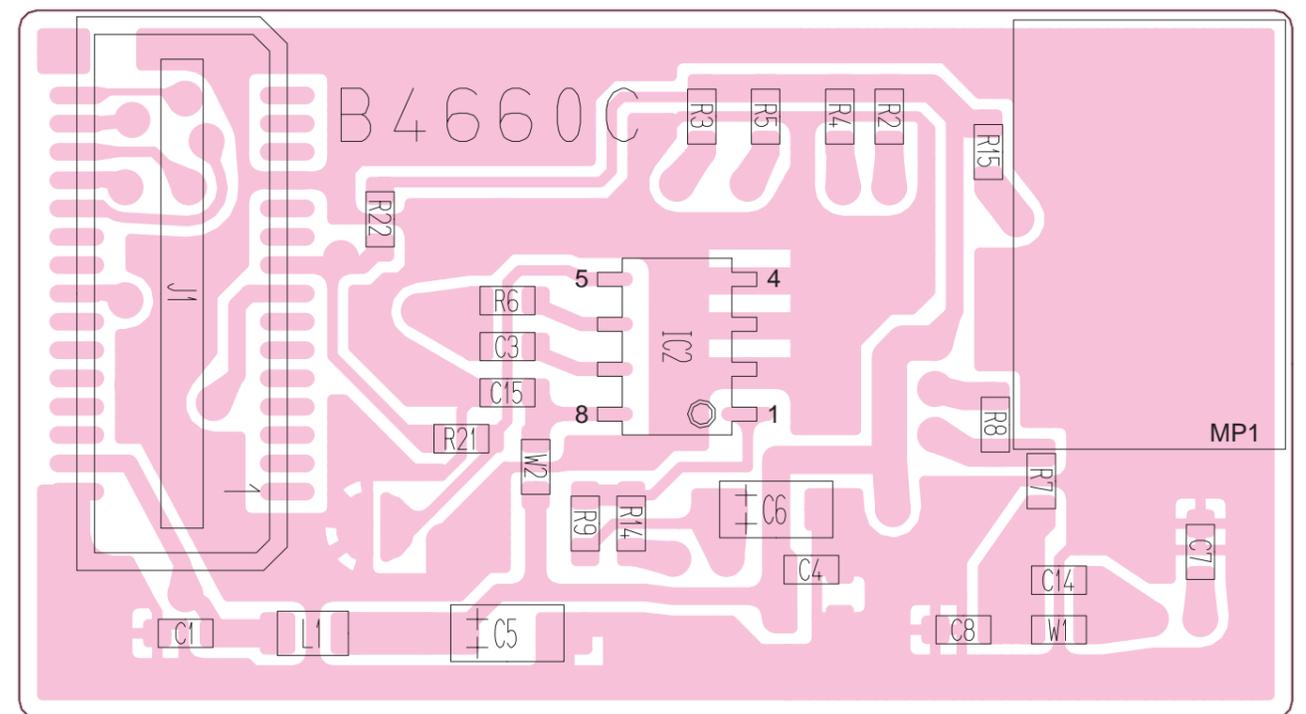
### • BLOCK DIAGRAM



### • BOARD LAYOUT (BOTTOM VIEW)

|    |         |         |    |
|----|---------|---------|----|
| 16 | SCK     | NC      | 15 |
|    | SI      | NC      |    |
|    | SO      | NC      |    |
|    | CIRQ    | GND     |    |
|    | CCS     | NC      |    |
|    | NC      | NC      |    |
|    | NC      | OPT1    |    |
|    | DISC IN | SIG OUT |    |
|    | NC      | NC      |    |
|    | +5V     | NC      |    |
| 30 | GND     | NC      | 1  |

to IC-F2610 MAIN unit J6



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