



SERVICE MANUAL

DIGITAL VOICE REPEATER

ID-RP4000V

S-14309XZ-C1
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INTRODUCTION

This service manual describes the latest service information for the **ID-RP4000V** DIGITAL VOICE REPEATER at the time of publication.

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

CAUTION

NEVER connect the transceiver to an AC outlet or to a DC power supply that uses more than 15 V. This will ruin the transceiver.

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.



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>

1110003491 S.IC TA31136FNG ID-RP4000V MAIN UNIT 5 pieces
8820001210 Screw 2438 screw ID-RP4000V Top 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 50 dB to 60 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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SECTION 1 SPECIFICATIONS

GENERAL

- Operating frequency range : Transmit 440–450 MHz
Receive 440–450 MHz
- Type of emission : F1D* (GMSK)
*F7W for system operation
- Transfer rate : 4.8 kbps
- Frequency resolutions : 5, 6.25 kHz
- Frequency stability : ± 0.8 kHz (based on 25°C)
- Usable temperature range : -10°C to $+50^{\circ}\text{C}$; $+14^{\circ}\text{F}$ to $+122^{\circ}\text{F}$
- Antenna connectors : Type-N ($50\ \Omega$) $\times 2$
- Power supply requirement : 13.8 V DC $\pm 15\%$ (Negative ground)
- Current drain : Transmit (High) Less than 7.0 A
(Low) Less than 3.0 A
Receive (Stand-by) Less than 0.7 A
- Dimensions (proj. not included) : 483(W) \times 88(H) \times 428(D) mm; 19(W) \times 3¹⁵/₃₂(H) \times 16²⁷/₃₂(D) in
- Weight (Approx.) : 7.5 kg; 16 lb 9 oz

TRANSMITTER

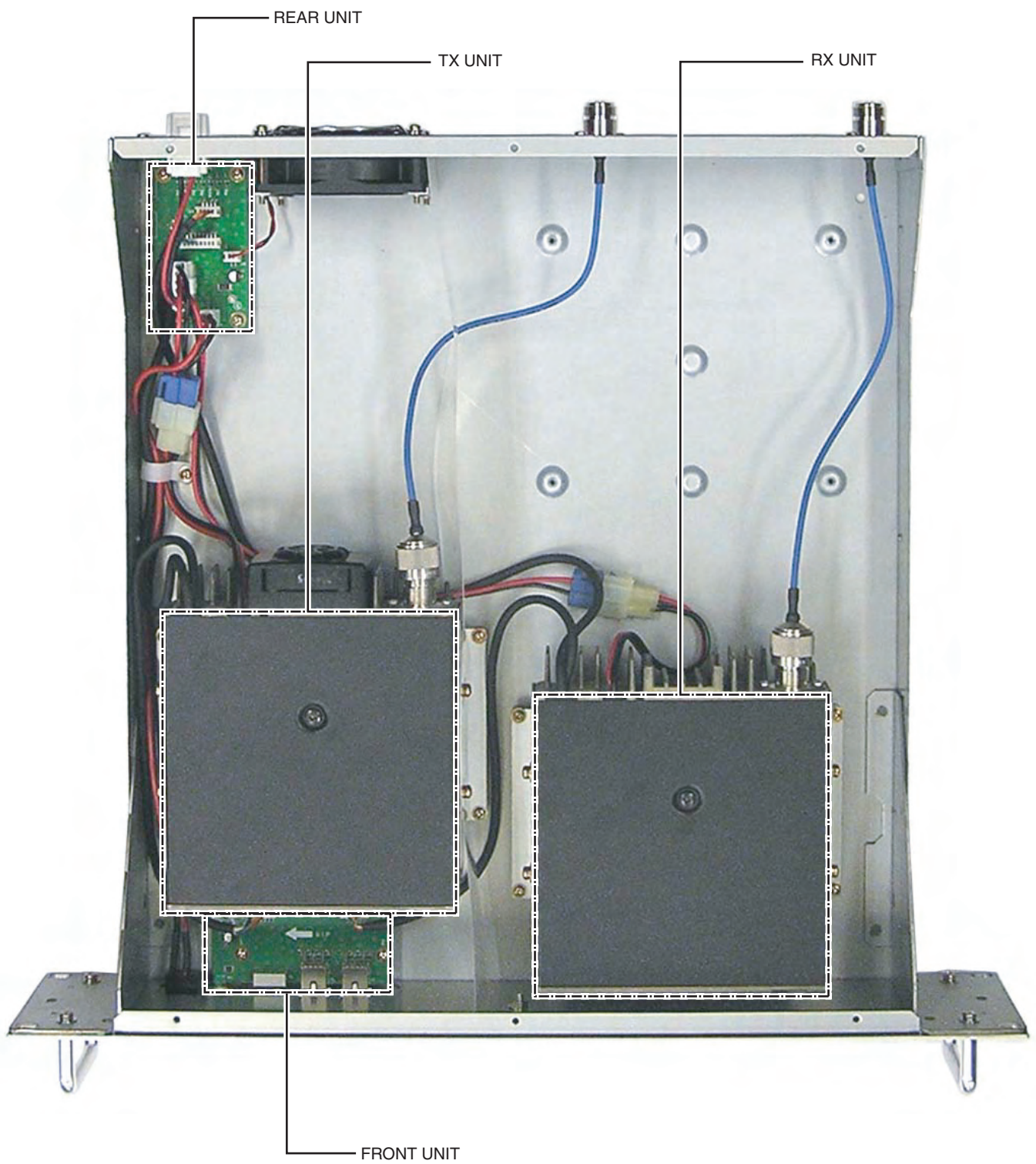
- Output power (at 13.8 V DC) : High 23–30 W
Low 2.0–3.0 W
- Modulation : GMSK
- Modulation system : Quadrature modulation (244.8 MHz)
- Occupied bandwidth : Less than 5.5 kHz
- Spurious emissions : Less than -60 dB

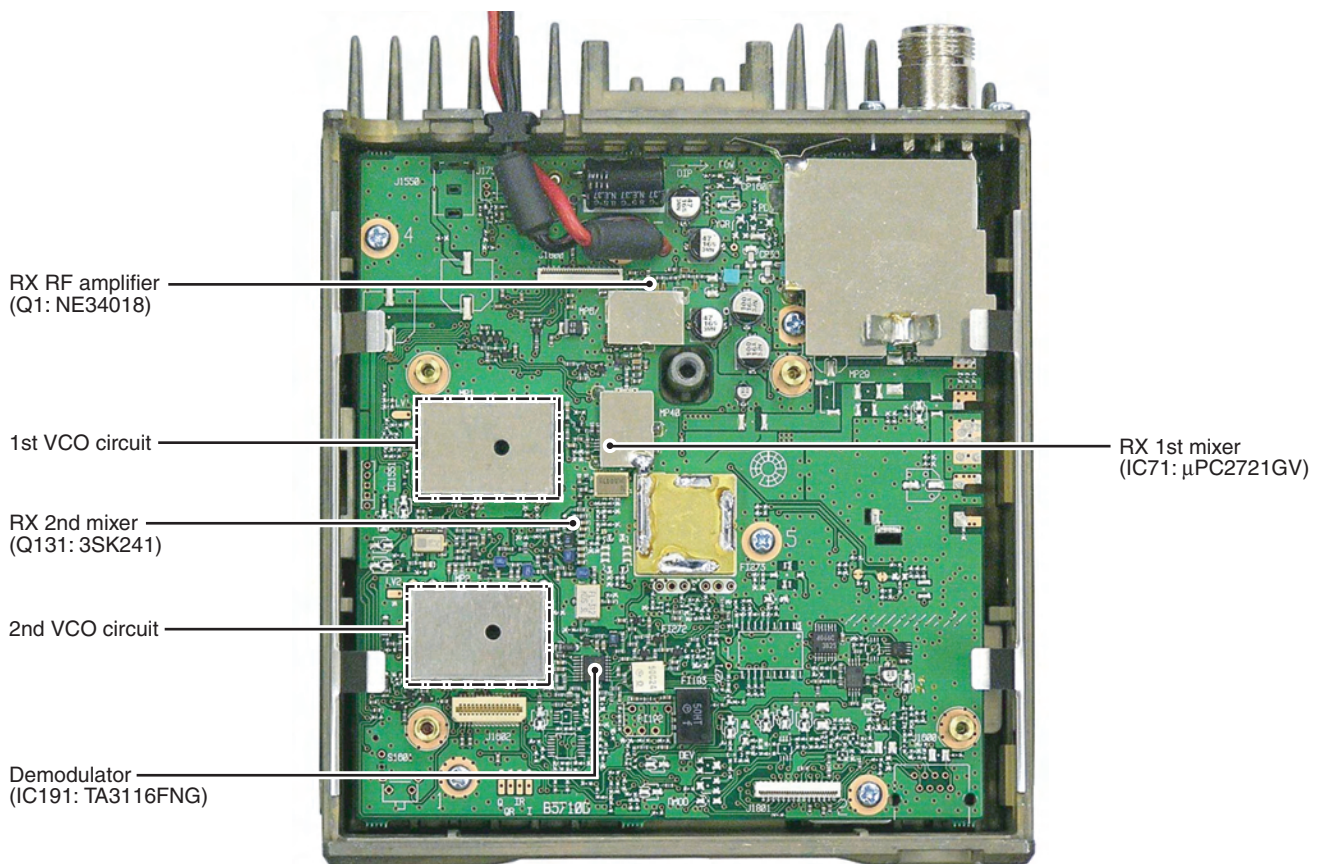
RECEIVER

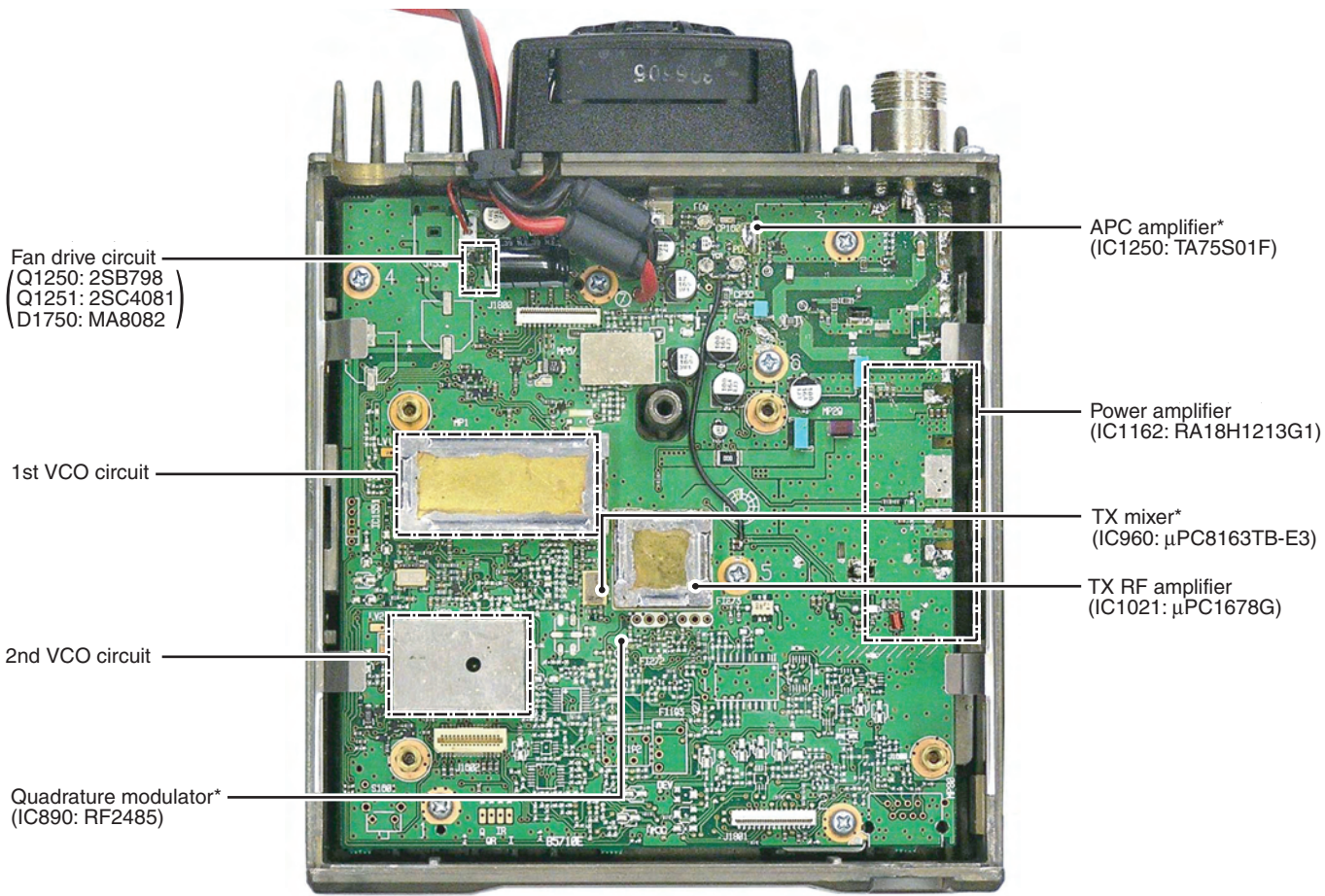
- Receive system : Double-conversion superheterodyne system
- Intermediate frequencies : 1st 70.0 MHz
2nd 450 kHz
- Sensitivity (BER 1×10^{-2}) : Less than -7 dB μ (0.45 μV)
- Selectivity (20 kHz offset) : More than 65 dB
- Spurious and image rejection : More than 70 dB
- Receive spurious : Less than 2 nW (-57 dBm)

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

SECTION 2 INSIDE VIEWS



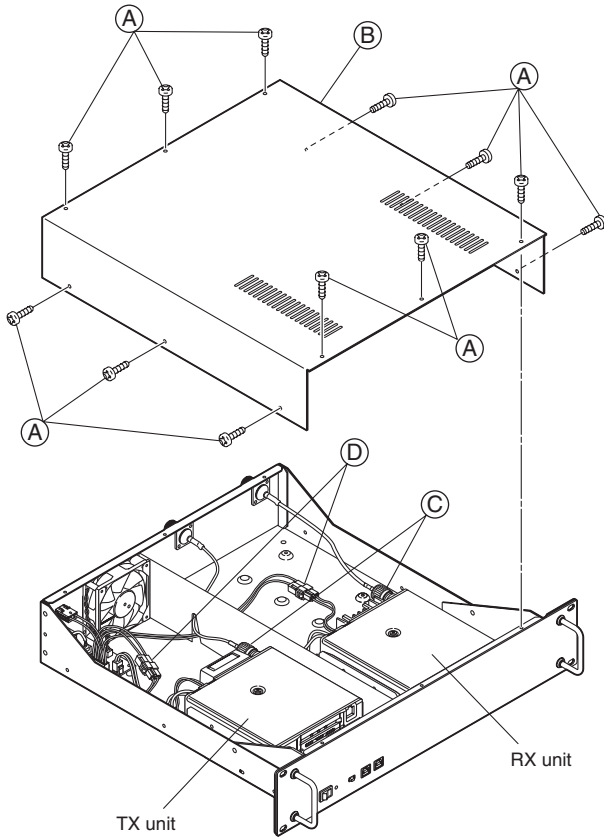




SECTION 3 DISASSEMBLY INSTRUCTION

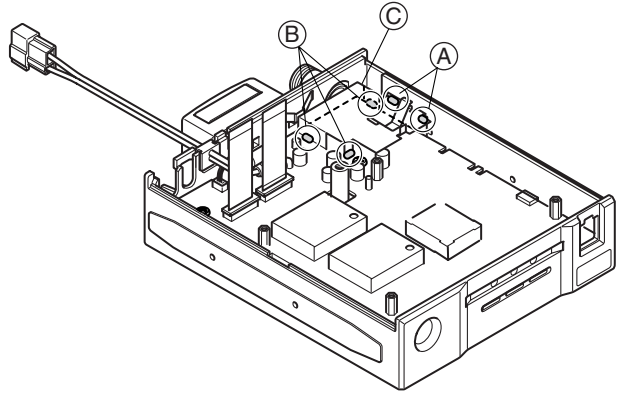
• REMOVING THE COVER

- ① Unscrew 12 screws (A), and remove the cover (B).
- ② Disconnect 2 cables (C), and disconnect 2 cables (D).

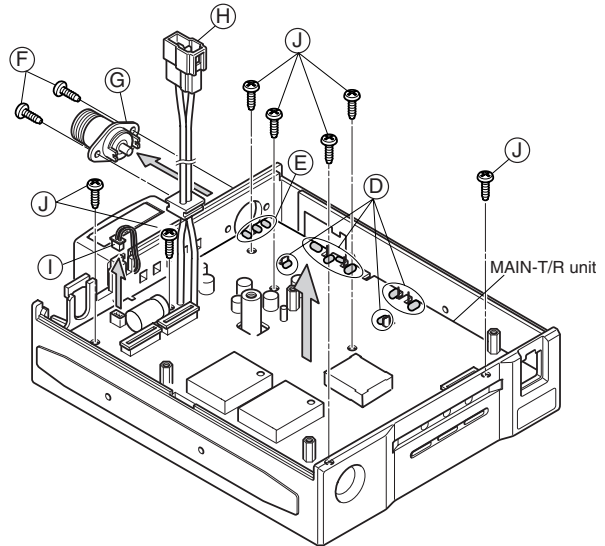


• REMOVING THE MAIN-T/R UNIT

- ① Unsolder 2 points (A). (MAIN-T unit only)
- ② Unsolder 3 points (B), and remove the ANT plate (C).

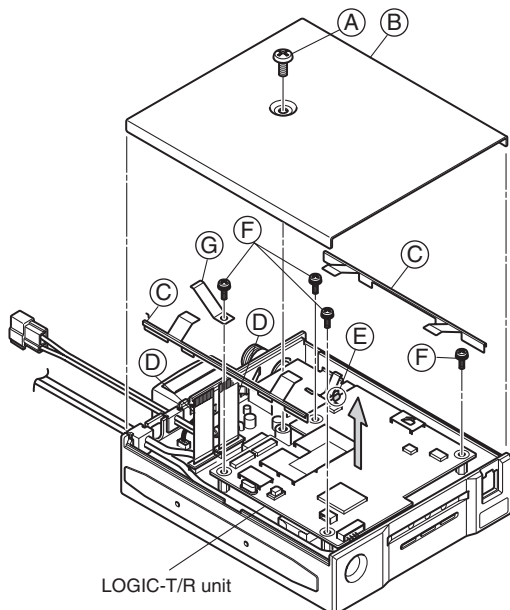


- ③ Unsolder 8 points (D). (MAIN-T unit only)
- ④ Unsolder 3 points (E).
- ⑤ Unscrew 2 screws (F), and remove the ANT connector (G).
- ⑥ Take off the cable (H) from the chassis.
- ⑦ Disconnect the cable (I). (MAIN-T unit only)
- ⑧ Unscrew 7 screws (J), and take off the MAIN-T/R unit.



• REMOVING THE LOGIC-T/R UNIT

- ① Unscrew 1 screw (A), and remove the cover (B).
- ② Remove 2 main shield plates (C).
- ③ Disconnect 2 cables (D), and unsolder 1 point (E).
- ④ Unscrew 4 screws (F), and remove the earth spring (G).
- ⑤ Take off the LOGIC-T/R unit.



SECTION 4 PARTS LIST

[LOGIC-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|-----------------------------|----|--------------|
| IC5 | 1180002391 | S.REG S-812C33AMC-C2N-G | T | 49.9/4.1 |
| IC6 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 27.5/9.8 |
| IC7 | 1110005440 | S.IC NJM2374AM-TE1 | T | 4.7/13.3 |
| IC9 | 1130010630 | S.IC SN74AHC1541PWR | T | 96.4/30.8 |
| IC10 | 1130007301 | S.IC TC4W66FU (TE12L,F) | B | 19.2/1.5 |
| IC11 | 1180002391 | S.REG S-812C33AMC-C2N-G | T | 19.1/18 |
| IC12 | 1190001340 | S.IC M62334FP 600C | T | 49.2/57 |
| IC13 | 1130006891 | S.IC TC7S04FU (TE85R,F) | T | 29.7/26 |
| IC14 | 1110005430 | S.IC CMX589AD5 | T | 19.4/29.5 |
| IC15 | 1110002861 | S.IC TA75S393F (TE85R,F) | B | 08.5/40.1 |
| IC16 | 1130007111 | S.IC TC7W04FU (TE12L,F) | B | 68.8/29 |
| IC17 | 1140008650 | S.IC HN58X2464TI | T | 4.6/25.5 |
| IC18 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | T | 7.2/45.6 |
| IC19 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | B | 10.4/47.3 |
| IC20 | 1190001340 | S.IC M62334FP 600C | T | 49.2/44.2 |
| IC21 | 1120002870 | S.IC XCS20XL-4TQ144I | T | 27.3/51.6 |
| IC22 | 1130007281 | S.IC TC7S32FU (TE85R,F) | B | 68.9/41.2 |
| IC23 | 1110005731 | S.IC S-80928CNMC-G8Y-G | B | 90/51.6 |
| IC24 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | T | 7/58.3 |
| IC25 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | B | 8.2/60.2 |
| IC26 | 1140010091 | S.IC PD70F3102AGJ-33-8EU-A | T | 73.5/48.6 |
| IC27 | 1130007281 | S.IC TC7S32FU (TE85R,F) | B | 54.1/27.3 |
| IC28 | 1130012051 | S.IC FT232BL | T | 53.8/24.4 |
| IC29 | 1130009570 | S.IC BR93LC46F-WE2 | T | 66.8/23 |
| IC33 | 1120002960 | S.IC TC74AC541FT (EL) | T | 76.8/73 |
| IC36 | 1120002830 | S.IC NJM2125F-TE1 | T | 65.5/73.2 |
| Q1 | 1590000430 | S.TR DTC144EUA T106 | T | 39.1/16.4 |
| Q2 | 1520000201 | S.TR 2SB798-T2-AZ DK | T | 34.5/20.2 |
| Q4 | 1590001400 | S.TR XP1214 (TX) | B | 20.7/24.6 |
| Q5 | 1590001400 | S.TR XP1214 (TX) | B | 27.2/23 |
| Q6 | 1590003500 | S.TR DTC114YE TL | B | 45.2/9.2 |
| Q7 | 1590000430 | S.TR DTC144EUA T106 | B | 20.9/34 |
| Q8 | 1530002280 | S.TR 2SC4081 T106 S | T | 46/7.5 |
| Q9 | 1520000201 | S.TR 2SB798-T2-AZ DK | B | 71.3/14.5 |
| Q10 | 1590000430 | S.TR DTC144EUA T106 | T | 34/32 |
| Q11 | 1590000430 | S.TR DTC144EUA T106 | B | 11.2/35.7 |
| Q12 | 1590000440 | S.TR DTA143ZUA T106 | B | 93.7/38.5 |
| Q13 | 1590003500 | S.TR DTC114YE TL | B | 06.2/35.5 |
| Q14 | 1590000430 | S.TR DTC144EUA T106 | B | 58/22.5 |
| D2 | 1790000671 | S.DIO SB07-03C-TB-E | T | 10.8/6.9 |
| D3 | 1750000550 | S.DIO 1SS355 TE-17 | T | 43.4/9.4 |
| D4 | 1790000671 | S.DIO SB07-03C-TB-E | T | 15.7/17.6 |
| D5 | 1790000671 | S.DIO SB07-03C-TB-E | T | 41.9/13.3 |
| D6 | 1750000550 | S.DIO 1SS355 TE-17 | B | 11.4/40.1 |
| D7 | 1730002280 | S.ZEN MA8091-M (TX) | B | 110.1/47 |
| D8 | 1730002280 | S.ZEN MA8091-M (TX) | T | 110.8/36.1 |
| D9 | 1750000841 | S.VCP 1SV324 (TPH3,F) | T | 8.9/42 |
| D11 | 1750000550 | S.DIO 1SS355 TE-17 | B | 01.8/40.6 |
| D12 | 1750000550 | S.DIO 1SS355 TE-17 | B | 97.9/42.4 |
| D13 | 1750000550 | S.DIO 1SS355 TE-17 | B | 97.9/40.6 |
| D15 | 1750000841 | S.VCP 1SV324 (TPH3,F) | T | 9.1/61.6 |
| D16 | 1790001240 | S.DIO MA2S728-TX | T | 59.1/44.3 |
| D17 | 1790001240 | S.DIO MA2S728-TX | T | 58.9/46.8 |
| X1 | 6050011240 | S.XTL CR-708 (16.384 MHz) | T | 3.7/45.9 |
| X2 | 6050011290 | S.XTL CR-715 (6 MHz) | T | 79.8/30.1 |
| X3 | 6050011700 | S.XTL CR-760 (9.8304 MHz) | T | 3.7/58.4 |
| X4 | 6050011290 | S.XTL CR-715 (6 MHz) | T | 43.5/25.1 |
| L1 | 6200003590 | S.COL EXCCL3225U1 | B | 92.1/13 |
| L2 | 6200003590 | S.COL EXCCL3225U1 | B | 05.7/10.3 |
| L3 | 6200003590 | S.COL EXCCL3225U1 | T | 3.7/22.4 |
| L4 | 6190001561 | S.COL CDRH5D18NP-101NC | T | 10.7/18.5 |
| L5 | 6190001561 | S.COL CDRH5D18NP-101NC | T | 10.7/11.5 |
| L6 | 6200002041 | S.COL NLV25T-101J | B | 16.6/34.4 |
| L7 | 6200005741 | S.COL ELJRE 47NGFA | B | 3.6/31.7 |
| L8 | 6200005741 | S.COL ELJRE 47NGFA | B | 69.7/34.8 |
| L9 | 6200005741 | S.COL ELJRE 47NGFA | B | 105.5/44 |
| L10 | 6200005741 | S.COL ELJRE 47NGFA | B | 69.7/36.9 |
| L11 | 6200005741 | S.COL ELJRE 47NGFA | B | 55.7/37.5 |
| L12 | 6200006991 | S.COL ELJRE 56NGFA | B | 52.6/23.2 |
| L15 | 6200002041 | S.COL NLV25T-101J | T | 61.4/25.4 |
| L16 | 6200005741 | S.COL ELJRE 47NGFA | T | 61.5/23.5 |
| R1 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 91.2/16.2 |
| R3 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 96.8/13.7 |
| R4 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 98.3/13.7 |
| R5 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 99.8/13.7 |

[LOGIC-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|------------------------------|----|--------------|
| R7 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 02.8/13.7 |
| R8 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 04.3/13.7 |
| R10 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 07.3/13.7 |
| R13 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 09.1/13.7 |
| R14 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 80/13.7 |
| R15 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 81.3/13.7 |
| R16 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 82.6/13.7 |
| R17 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 84/13.7 |
| R21 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 86.2/17.5 |
| R22 | 7030003590 | S.RES ERJ3GEYJ 183 V (18 k) | T | 87.9/21 |
| R23 | 7030003590 | S.RES ERJ3GEYJ 183 V (18 k) | T | 86.2/21 |
| R29 | 7030000420 | S.RES MCR10EZJH 2.2 k | T | 36.6/13.8 |
| R30 | 7030000420 | S.RES MCR10EZJH 2.2 k | T | 36.6/11.9 |
| R31 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 34.5/16.3 |
| R32 | 7030000180 | S.RES MCR10EZJH 22 (220) | T | 33.2/13.8 |
| R33 | 7030000180 | S.RES MCR10EZJH 22 (220) | T | 33.2/11.9 |
| R34 | 7030003480 | S.RES ERJ3GEYJ 222 V (2.2 k) | B | 94.3/18.4 |
| R38 | 7030003510 | S.RES ERJ3GEYJ 392 V (3.9 k) | B | 108/17.2 |
| R40 | 7030003470 | S.RES ERJ3GEYJ 182 V (1.8 k) | T | 83.4/15.9 |
| R41 | 7030003590 | S.RES ERJ3GEYJ 183 V (18 k) | B | 86.5/14.5 |
| R51 | 7030003600 | S.RES ERJ3GEYJ 223 V (22 k) | T | 5.3/18.9 |
| R52 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | T | 4/18.9 |
| R53 | 7030000020 | S.RES MCR10EZJH 1 (010) | B | 4.3/10 |
| R60 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | T | 6.6/18.9 |
| R61 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 48/9.7 |
| R62 | 7030003470 | S.RES ERJ3GEYJ 182 V (1.8 k) | B | 43.2/8.2 |
| R63 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 29.7/23.8 |
| R64 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 19.1/31.7 |
| R65 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 19.1/30.5 |
| R66 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 19.1/29.3 |
| R67 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 19.1/28.1 |
| R68 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 19.1/26.9 |
| R69 | 7030003800 | S.RES ERJ3GEYJ 105 V (1 M) | T | 25.4/25.1 |
| R70 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | T | 32/27.2 |
| R71 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 31.4/29.6 |
| R72 | 7030003750 | S.RES ERJ3GEYJ 394 V (390 k) | B | 17.1/25.6 |
| R73 | 7030009340 | S.RES ERJ3GEYJ 275V (2.7 M) | B | 13.8/22.7 |
| R90 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 45.2/10.7 |
| R91 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 109.8/44 |
| R94 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 14.2/23.3 |
| R115 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 04.6/37.6 |
| R116 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 104.6/39 |
| R117 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | B | 08.1/37.5 |
| R126 | 7030003600 | S.RES ERJ3GEYJ 223 V (22 k) | B | 09.2/34.5 |
| R127 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | B | 94.5/36.2 |
| R128 | 7030003490 | S.RES ERJ3GEYJ 272 V (2.7 k) | B | 04.5/34.2 |
| R129 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 05.5/45.5 |
| R130 | 7030003370 | S.RES ERJ3GEYJ 271 V (270) | T | 7.2/50.1 |
| R131 | 7030003800 | S.RES ERJ3GEYJ 105 V (1 M) | T | 7.2/48.7 |
| R132 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 10.5/50.8 |
| R133 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 22.3/37.6 |
| R134 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 66.3/41.2 |
| R135 | 7030003570 | S.RES ERJ3GEYJ 123 V (12 k) | B | 02.4/38.3 |
| R136 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 00.9/38.3 |
| R137 | 7030003570 | S.RES ERJ3GEYJ 123 V (12 k) | T | 9.5/25.9 |
| R138 | 7030003570 | S.RES ERJ3GEYJ 123 V (12 k) | T | 5.2/28.9 |
| R139 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | B | 90.7/48.2 |
| R140 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 9.1/49.4 |
| R141 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 9.1/45.4 |
| R142 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | B | 13.2/44 |
| R143 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | B | 10.4/42.5 |
| R145 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 66.2/35.5 |
| R146 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 66.2/34 |
| R148 | 7030003860 | S.RES ERJ3GE JPW V | T | 68.5/30.1 |
| R149 | 7030003340 | S.RES ERJ3GEYJ 151 V (150) | B | 72.8/36.9 |
| R150 | 7030003360 | S.RES ERJ3GEYJ 221 V (220) | T | 92.2/48.2 |
| R151 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 9.1/54.4 |
| R152 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 9.1/58.4 |
| R153 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 40.5/51.2 |
| R154 | 7030003860 | S.RES ERJ3GE JPW V | T | 57/40.9 |
| R155 | 7030003800 | S.RES ERJ3GEYJ 105 V (1 M) | T | 7/60.7 |
| R156 | 7030003400 | S.RES ERJ3GEYJ 471 V (470) | T | 7/62.2 |
| R157 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 8.4/63.9 |
| R158 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 40.8/59.3 |
| R159 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | B | 62.3/47 |
| R160 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 62.5/49.3 |
| R161 | 7030003510 | S.RES ERJ3GEYJ 392 V (3.9 k) | B | 90/43.8 |
| R162 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | B | 8.2/56.5 |
| R163 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | B | 11.7/61.2 |
| R164 | 7030003860 | S.RES ERJ3GE JPW V | T | 37.7/63.5 |
| R165 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 39.3/62.6 |
| R167 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 58.8/57.3 |
| R168 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 54.5/57.8 |
| R169 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 54.5/56.4 |
| R170 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 54.5/44.7 |

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

for free by
RadioAmateur.eu

[LOGIC-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|------------------------------|----|--------------|
| R171 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 54.5/43.5 |
| R172 | 7030003340 | S.RES ERJ3GEYJ 151 V (150) | B | 56.5/25.9 |
| R173 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 54/25.3 |
| R174 | 7030003580 | S.RES ERJ3GEYJ 153 V (15 k) | B | 51/26.5 |
| R175 | 7030003550 | S.RES ERJ3GEYJ 822 V (8.2 k) | B | 51/28 |
| R176 | 7030003460 | S.RES ERJ3GEYJ 152 V (1.5 k) | T | 53.3/18 |
| R177 | 7030003400 | S.RES ERJ3GEYJ 471 V (470) | B | 55.5/23.2 |
| R178 | 7030003860 | S.RES ERJ3GE JPW V | B | 52/21 |
| R179 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 66.3/23.5 |
| R180 | 7030003480 | S.RES ERJ3GEYJ 222 V (2.2 k) | B | 69/23.5 |
| R183 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | B | 55.8/31.5 |
| R184 | 7030003460 | S.RES ERJ3GEYJ 152 V (1.5 k) | T | 57.5/16.1 |
| R185 | 7030003200 | S.RES ERJ3GEYJ 100 V (10) | T | 57.5/18.6 |
| R186 | 7030003200 | S.RES ERJ3GEYJ 100 V (10) | T | 57.5/17.4 |
| R187 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 68.2/73 |
| R188 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 28.5/35.7 |
| R190 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 64.5/76 |
| R192 | 7030003860 | S.RES ERJ3GE JPW V | T | 65.8/30.1 |
| R194 | 7030003860 | S.RES ERJ3GE JPW V | T | 68.5/32.9 |
| R195 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | B | 51/32.2 |
| R196 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 52.4/32.9 |
| C1 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 91.2/17.5 |
| C3 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 99.1/18.4 |
| C4 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 99.1/20.2 |
| C5 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 90.9/14.3 |
| C6 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 109.1/17.5 |
| C13 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 94.3/19.7 |
| C15 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 06.6/12.5 |
| C16 | 4030007130 | S.CER C1608 CH 1H 101J-T | B | 06.6/13.8 |
| C19 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 07.3/17.5 |
| C21 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 04.3/17.5 |
| C22 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 02.8/17.5 |
| C24 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 98.3/17.4 |
| C25 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 96.8/17.4 |
| C26 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 86.5/15.9 |
| C27 | 4030011810 | S.CER C1608 JB 1A 224K-T | B | 86.5/17.3 |
| C28 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 62.5/73.5 |
| C29 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 34/26.5 |
| C30 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 26.7/32.8 |
| C41 | 4510008490 | S.ELE EEE1CS1005R | B | 24.2/5.6 |
| C42 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 47.5/3.4 |
| C43 | 4510008520 | S.ELE EEE1CA4705P | B | 29.7/5.2 |
| C44 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 30.3/16.9 |
| C45 | 4510008850 | S.ELE EEE1CA101P | B | 10.5/5.9 |
| C47 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 95.4/35.7 |
| C48 | 4030008890 | S.CER C1608 JB 1H 273K-T | B | 29.5/24 |
| C49 | 4030008890 | S.CER C1608 JB 1H 273K-T | B | 25.1/20.8 |
| C56 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 49.7/7 |
| C57 | 4550006250 | S.TAN TEESVA 1A 106M8R | T | 48.6/10.7 |
| C58 | 4510007130 | S.ELE EEFCO QJ 470R | T | 16.9/10.6 |
| C59 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 27.2/16.4 |
| C60 | 4510008520 | S.ELE EEE1CA4705P | B | 18.7/5.1 |
| C61 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 27.2/17.6 |
| C62 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 21.4/15.2 |
| C63 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 6.1/7.7 |
| C64 | 4550006250 | S.TAN TEESVA 1A 106M8R | T | 28.5/19.4 |
| C65 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 27.7/21.8 |
| C66 | 4030007000 | S.CER C1608 CH 1H 090D-T | T | 31.4/30.9 |
| C67 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 27.2/24.5 |
| C68 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 26.2/27 |
| C69 | 4030007130 | S.CER C1608 CH 1H 101J-T | B | 25/23 |
| C70 | 4030012600 | S.CER C2012 JB 1A 105M-T | B | 27/31.2 |
| C71 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 26.8/29.6 |
| C72 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 12.5/35 |
| C73 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 12.5/33.8 |
| C74 | 4550006050 | S.TAN TEESVA 0J 106M8R | T | 45.7/15.4 |
| C75 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 21.5/19.7 |
| C76 | 4550006730 | S.TAN TEESVB2 0J 226M8R | T | 18.1/22.5 |
| C77 | 4550006250 | S.TAN TEESVA 1A 106M8R | T | 23.1/16 |
| C78 | 4550006050 | S.TAN TEESVA 0J 106M8R | B | 68.8/32.3 |
| C80 | 4550006250 | S.TAN TEESVA 1A 106M8R | B | 13.9/31.8 |
| C81 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 14.7/29.9 |
| C82 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 14.8/28.4 |
| C84 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 09.8/45.3 |
| C85 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 12.5/36.4 |
| C86 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 58.7/58.9 |
| C87 | 4030006850 | S.CER C1608 JB 1H 471K-T | B | 63.8/29.9 |
| C88 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 7.2/51.4 |
| C89 | 4030009520 | S.CER C1608 CH 1H 020B-T | T | 6.5/42 |
| C90 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 10.3/45.4 |
| C91 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 63.8/28.6 |
| C92 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 3.6/29.9 |
| C93 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 72.8/35.3 |
| C94 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 9.8/47.4 |
| C95 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 50.1/48 |
| C96 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 10.5/45.2 |
| C97 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 28.2/41.7 |
| C98 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 70.6/43.1 |
| C99 | 4030008560 | S.CER C1608 CH 1H 300J-T | T | 78.5/34.7 |

[LOGIC-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|--------------------------------|----|--------------|
| C100 | 4030008560 | S.CER C1608 CH 1H 300J-T | T | 78.5/33.5 |
| C101 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 90.3/54.2 |
| C102 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 9.8/56.4 |
| C103 | 4030007080 | S.CER C1608 CH 1H 390J-T | T | 10.4/58.4 |
| C105 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 39/41.2 |
| C106 | 4550006780 | S.TAN TEESVB2 0J 476M8R | B | 40/38.7 |
| C107 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 59.6/40.9 |
| C108 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 58.7/41.5 |
| C109 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 5.5/63.4 |
| C110 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 8.2/58 |
| C111 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 15.1/63.2 |
| C112 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 14.6/53.6 |
| C113 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 27.6/65.1 |
| C115 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 87.2/49.4 |
| C116 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 88.6/53.6 |
| C117 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 14.1/41.1 |
| C118 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 93.1/65.9 |
| C119 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 57.2/27.7 |
| C120 | 4030008560 | S.CER C1608 CH 1H 300J-T | T | 48.1/24.8 |
| C121 | 4030008560 | S.CER C1608 CH 1H 300J-T | T | 46.9/24.8 |
| C122 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 63.6/64.2 |
| C123 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 86.6/55.3 |
| C124 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 93.2/64.4 |
| C125 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 50.9/25.1 |
| C126 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 55.5/22 |
| C127 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 63.5/23.5 |
| C131 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 53.9/32.9 |
| C132 | 4550006250 | S.TAN TEESVA 1A 106M8R | B | 58/33.8 |
| C133 | 4030008900 | S.CER C1608 JB 1H 333K-T | T | 54.3/16.7 |
| C136 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 67.4/76 |
| C137 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 60.5/22.2 |
| C138 | 4030007050 | S.CER C1608 CH 1H 220J-T | B | 99.5/12.2 |
| C139 | 4030007050 | S.CER C1608 CH 1H 220J-T | B | 98/12.2 |
| C140 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 55.8/34.3 |
| C141 | 4550000460 | S.TAN TEESVA 1C 105M8R | B | 95.1/21.5 |
| C142 | 4550000460 | S.TAN TEESVA 1C 105M8R | B | 102.8/17 |
| C143 | 4550000460 | S.TAN TEESVA 1C 105M8R | B | 81.4/13 |
| C144 | 4550000460 | S.TAN TEESVA 1C 105M8R | T | 84.1/21.8 |
| C145 | 4510007400 | S.ELE EEFCO 1C 8R2R | T | 11.6/2.8 |
| J1 | 6510022710 | S.CNR 30FLZ-SM1-TB | T | 100.6/5.5 |
| J2 | 6510022710 | S.CNR 30FLZ-SM1-TB | T | 78.8/5.5 |
| J4 | 6510019271 | S.CNR 52365-0671 | T | 08.4/40.2 |
| J5 | 6510021431 | S.CNR S8B-ZR-SM4A-TF (LF) (SN) | T | 95.6/75.4 |
| J6 | 6510023861 | S.CNR S9B-ZR-SM4A-TF (LF) (SN) | B | 95/5.7 |
| W1 | 8900013161 | CBL OPC-1313A | | |

[LOGIC-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|----------------------------|----|--------------|
| IC1 | 1110005290 | S.IC NJM2115V-TE1 | B | 28.3/49.1 |
| IC2 | 1110005290 | S.IC NJM2115V-TE1 | B | 28.1/61.1 |
| IC3 | 1130007301 | S.IC TC4W66FU (TE12L,F) | B | 103.5/20 |
| IC4 | 1110005290 | S.IC NJM2115V-TE1 | B | 28.1/71.3 |
| IC5 | 1180002391 | S.REG S-812C33AMC-C2N-G | T | 49.9/4.1 |
| IC6 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 27.5/9.8 |
| IC7 | 1110005440 | S.IC NJM2374AM-TE1 | T | 4.7/13.3 |
| IC9 | 1130010630 | S.IC SN74AHC541PWR | T | 96.4/30.8 |
| IC11 | 1180002391 | S.REG S-812C33AMC-C2N-G | T | 18.9/18 |
| IC12 | 1190001340 | S.IC M62334FP 600C | T | 49.2/57 |
| IC15 | 1110002861 | S.IC TA75S393F (TE85R,F) | B | 68.5/40.1 |
| IC16 | 1130007111 | S.IC TC7W04FU (TE12L,F) | B | 8.8/8.29 |
| IC17 | 1140008650 | S.IC HN58X2464TI | T | 10.3/31.6 |
| IC18 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | T | 7.2/45.6 |
| IC19 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | B | 10.4/47.3 |
| IC20 | 1190001340 | S.IC M62334FP 600C | T | 49.2/44.1 |
| IC21 | 1120002870 | S.IC XCS20XL-4TQ144I | T | 27.3/51.6 |
| IC22 | 1130007281 | S.IC TC7S32FU (TE85R,F) | B | 68.9/41.2 |
| IC23 | 1110005731 | S.IC S-80928CNMC-G8Y-G | B | 90/51.6 |
| IC24 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | T | 7/58.4 |
| IC25 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | B | 8.2/60.2 |
| IC26 | 1140010091 | S.IC PD70F3102AGJ-33-8EU-A | T | 73.5/48.6 |
| IC27 | 1130007281 | S.IC TC7S32FU (TE85R,F) | B | 54.1/27.3 |
| IC28 | 1130012051 | S.IC FT232BL | T | 53.8/24.3 |
| IC29 | 1130009570 | S.IC BR93LC46F-WE2 | T | 66.8/2.4 |
| IC33 | 1120002960 | S.IC TC74AC541FT (EL) | T | 76.8/73 |
| Q1 | 1590000430 | S.TR DTC144EUA T106 | T | 39.1/16.4 |
| Q2 | 1520000201 | S.TR 2SB798-T2-AZ DK | T | 34.5/20.2 |
| Q3 | 1590000430 | S.TR DTC144EUA T106 | B | 104.2/23.1 |
| Q6 | 1590003500 | S.TR DTC114YE TL | B | 46.1/15.2 |
| Q8 | 1530002280 | S.TR 2SC4081 T106 S | T | 46.3/7.5 |

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

[MAIN-R UNIT]

Table with columns: REF NO., ORDER NO., DESCRIPTION, M., H/V LOCATION. Contains parts list for the main-R unit.

[MAIN-R UNIT]

Table with columns: REF NO., ORDER NO., DESCRIPTION, M., H/V LOCATION. Contains parts list for the main-R unit.

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

[MAIN-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|--------------------------|----|--------------|
| C74 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 45.7/60.7 |
| C75 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 49.2/60.7 |
| C77 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 52.7/64.7 |
| C78 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 52.7/60.7 |
| C79 | 4550000550 | S.TAN TEESVA 1V 224M8R | T | 37.4/65.5 |
| C80 | 4550005980 | S.TAN TEESVA 1A 475M8R | T | 35.2/65.4 |
| C81 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 50/72.5 |
| C82 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 41.4/66.8 |
| C83 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 42.5/77.5 |
| C84 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 57.2/69.6 |
| C85 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 50/71 |
| C86 | 4030009920 | S.CER C1608 CH 1H 050B-T | T | 82.6/64.9 |
| C87 | 4030009910 | S.CER C1608 CH 1H 040B-T | T | 65.6/62.3 |
| C88 | 4610001590 | S.TRI TZC3R100A110R00 | T | 72/63.2 |
| C89 | 4030009520 | S.CER C1608 CH 1H 020B-T | T | 65.6/61 |
| C90 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 45.7/77 |
| C91 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 82.7/69.6 |
| C92 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 45.7/67.7 |
| C93 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 87.6/74.6 |
| C95 | 4030009540 | S.CER C1608 CH 1H 1R5B-T | T | 66.2/63.6 |
| C96 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 65/65.7 |
| C97 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 67.6/68.4 |
| C98 | 4030009570 | S.CER C1608 CH 1H 0R3B-T | T | 64.7/68.4 |
| C99 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 59/60 |
| C100 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 86.8/72.5 |
| C101 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 90.9/68.9 |
| C102 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 58.4/71.7 |
| C103 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 61.8/67.3 |
| C104 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 61.4/72.8 |
| C106 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 63.5/75 |
| C107 | 4030006970 | S.CER C1608 CH 1H 060D-T | T | 48.7/77 |
| C108 | 4030006930 | S.CER C1608 CH 1H 020C-T | T | 49.5/80.2 |
| C109 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 70.7/70.7 |
| C110 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 51.7/77 |
| C111 | 4030009520 | S.CER C1608 CH 1H 020B-T | T | 52.5/80.2 |
| C112 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 72.2/74.7 |
| C113 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 67/75.5 |
| C114 | 4030006970 | S.CER C1608 CH 1H 060D-T | T | 53.2/77 |
| C115 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 8.5/29.6 |
| C117 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 10.7/27.2 |
| C118 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 13/31 |
| C119 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 20.2/35.2 |
| C120 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 7.7/27.2 |
| C121 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 17.2/42.4 |
| C150 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 88.2/64.7 |
| C151 | 4030009520 | S.CER C1608 CH 1H 020B-T | T | 93.8/68.9 |
| C152 | 4030006930 | S.CER C1608 CH 1H 020C-T | T | 96.8/68.9 |
| C153 | 4030006970 | S.CER C1608 CH 1H 060D-T | T | 93/65.2 |
| C154 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 96.1/65.2 |
| C155 | 4030006970 | S.CER C1608 CH 1H 060D-T | T | 97.6/65.3 |
| C500 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 42.7/112 |
| C501 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 40.7/112 |
| C504 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 77.7/28.7 |
| C505 | 4030011810 | S.CER C1608 JB 1A 224K-T | T | 83.8/18.6 |
| C506 | 4510008520 | S.ELE EEE1CA4705P | T | 54/89.5 |
| C507 | 4510008520 | S.ELE EEE1CA4705P | T | 42.1/92.3 |
| C508 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 94.2/16.5 |
| C509 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 94.2/18 |
| C511 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 99/21.5 |
| C512 | 4030007010 | S.CER C1608 CH 1H 100D-T | B | 108.1/23.8 |
| C513 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 101/21.5 |
| C515 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 106/23 |
| C516 | 4550007520 | S.TAN F931A106MAABMA | T | 105.5/14.5 |
| C518 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 95.2/9.7 |
| C520 | 4030007120 | S.CER C1608 CH 1H 820J-T | T | 99/11 |
| C521 | 4030008920 | S.CER C1608 JB 1H 473K-T | B | 101.7/12.7 |
| C523 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 100.2/12.7 |
| C524 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 111.7/14 |
| C525 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 109.2/19.7 |
| C526 | 4030007020 | S.CER C1608 CH 1H 120J-T | B | 104/19.7 |
| C527 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 114.5/33.7 |
| C528 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 105.7/33 |
| C529 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 110.3/36.6 |
| C530 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 107.7/30.7 |
| C531 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 104.5/33 |
| C533 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 106.2/47.5 |
| C540 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 111.7/54.4 |
| C541 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 111.7/57.3 |
| C554 | 4030006950 | S.CER C1608 CH 1H 040C-T | B | 115.9/88.7 |
| C555 | 4030006850 | S.CER C1608 JB 1H 471K-T | B | 119.4/98.1 |
| C556 | 4030006850 | S.CER C1608 JB 1H 471K-T | B | 119.5/90.8 |
| C557 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 121.5/98.1 |
| C558 | 4030007010 | S.CER C1608 CH 1H 100D-T | B | 118.2/107.9 |
| C559 | 4030006950 | S.CER C1608 CH 1H 040C-T | B | 113.5/96.9 |
| C560 | 4030006960 | S.CER C1608 CH 1H 050C-T | B | 121.3/107.7 |
| C566 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 116.3/98.2 |
| C567 | 4030007010 | S.CER C1608 CH 1H 100D-T | B | 114.6/116.1 |
| C568 | 4030006970 | S.CER C1608 CH 1H 060D-T | B | 119.5/121.1 |
| C570 | 4550002890 | S.TAN TEESVA 1A 225M8R | T | 39.5/65.6 |
| C575 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 76.1/14.6 |
| C578 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 117.1/77.1 |

[MAIN-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|--------------------------|----|--------------|
| C579 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 115.5/77.1 |
| C580 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 116.5/65.2 |
| C581 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 116.6/62.8 |
| C582 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 108.7/63.5 |
| C583 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 108.5/78.1 |
| C584 | 4030009540 | S.CER C1608 CH 1H 1R5B-T | B | 121.8/116.8 |
| C585 | 4030009540 | S.CER C1608 CH 1H 1R5B-T | B | 118.5/114.5 |
| C586 | 4030006960 | S.CER C1608 CH 1H 050C-T | B | 114.1/110 |
| C587 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 116.7/68.9 |
| C588 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 81.2/12.3 |
| C590 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 32/59.6 |
| C591 | 4030007000 | S.CER C1608 CH 1H 090D-T | T | 89.6/71.2 |
| C592 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 111.7/14.6 |
| C593 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 108.4/76.4 |
| C594 | 4030006970 | S.CER C1608 CH 1H 060D-T | T | 118.5/75.6 |
| C595 | 4030007130 | S.CER C1608 CH 1H 101J-T | B | 119.5/122.6 |
| J1 | 6510021720 | S.CNR 30FLT-SM1-TB | T | 23/107.2 |
| J2 | 6510021720 | S.CNR 30FLT-SM1-TB | T | 45/107.2 |
| J3 | 6510018450 | CNR TMP-S01X-B1 | | |
| W1 | 8900004880 | CBL OPC-465 | | |
| EP2 | 6910013310 | S.BEA MMZ1608D121B | T | 52.7/66.2 |

[MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|-----------------------------|----|--------------|
| IC2 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 77.7/113.2 |
| IC3 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 77.7/106 |
| IC4 | 1180002020 | S.REG BA033FP-E2 | T | 15.7/95.5 |
| IC5 | 1130006551 | S.IC TC7S08FU (TE85R,F) | B | 25.2/62 |
| IC6 | 1110006670 | S.IC NJM2730F-TE1-#ZZZB | B | 43/23.7 |
| IC7 | 1140005991 | S.IC MB15A02PFV1-G-BND-ERE1 | B | 35.2/28.7 |
| IC8 | 1110006670 | S.IC NJM2730F-TE1-#ZZZB | B | 43.5/46.5 |
| IC9 | 1140005991 | S.IC MB15A02PFV1-G-BND-ERE1 | B | 34.7/52.5 |
| IC200 | 1110002751 | S.IC TA75S01F (TE85R,F) | B | 87.7/26.5 |
| IC201 | 1110005410 | S.IC RF2485 <1A> | T | 68.2/25.2 |
| IC202 | 1110004050 | S.IC NJM3404AV-TE1-#FMZB | B | 82.5/26.2 |
| IC203 | 1110006610 | S.IC PC8106TB-E3 | T | 66.7/42.2 |
| IC205 | 1110002751 | S.IC TA75S01F (TE85R,F) | T | 105.5/78 |
| Q1 | 1520000201 | S.TR 2SB798-T2-AZ DK | T | 8/126.5 |
| Q2 | 1530002280 | S.TR 2SC4081 T106 S | T | 7.2/120.7 |
| Q4 | 1530002691 | S.TR 2SC4116-GR (TE85R,F) | T | 30.7/16.2 |
| Q5 | 1560000491 | S.FET 2SK508-T2B-A K52 | T | 39.2/26.7 |
| Q6 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 53.7/28.8 |
| Q7 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 32.3/31.6 |
| Q8 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 40.7/34.7 |
| Q9 | 1530002691 | S.TR 2SC4116-GR (TE85R,F) | T | 20.5/49.7 |
| Q10 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 52.1/48.3 |
| Q12 | 1560000491 | S.FET 2SK508-T2B-A K52 | T | 37.1/50.2 |
| Q13 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 32.3/55.6 |
| Q14 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 40.4/57.8 |
| Q15 | 1560000531 | S.FET 2SK880-GR (TE85R,F) | T | 7.7/27.2 |
| Q200 | 1590000430 | S.TR DTC144EUA T106 | T | 61.2/14 |
| Q201 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 66/15.7 |
| Q202 | 1590000430 | S.TR DTC144EUA T106 | T | 40.2/92 |
| Q203 | 1590000430 | S.TR DTC144EUA T106 | T | 50.7/92 |
| Q204 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 45/93.5 |
| Q205 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 55.2/93.5 |
| Q206 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 65.5/33.6 |
| Q207 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 78.7/60 |
| Q208 | 1530003431 | S.TR 2SC5226-4-TL-E | T | 91.2/61 |
| Q209 | 1590000680 | S.TR DTC114EUA T106 | T | 90.2/74.7 |
| Q210 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 92.7/79.5 |
| Q211 | 1560001161 | S.FET 2SK3475 (TE12L,F) | T | 104.7/60 |
| Q212 | 1590000680 | S.TR DTC114EUA T106 | T | 109/72.5 |
| D1 | 1790000700 | DIO DSA3A1 | | |
| D2 | 1730002300 | S.ZEN MA8082-M (TX) | T | 4.2/125.5 |

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

[MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|--------------------------|----|--------------|
| C223 | 4510008520 | S.ELE EEE1CA470SP | T | 42.7/99.7 |
| C224 | 4510008520 | S.ELE EEE1CA470SP | T | 52.7/100 |
| C225 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 74.7/29 |
| C226 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 60.5/41.5 |
| C227 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 75.1/33.6 |
| C228 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 73.5/21.5 |
| C229 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 63.7/39.8 |
| C230 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 74.7/36.2 |
| C231 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 76.5/22.5 |
| C232 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 73/33.1 |
| C233 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 72/22.9 |
| C234 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 63.7/43.5 |
| C236 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 73.5/36.2 |
| C237 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 68/26.2 |
| C238 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 67.6/44.8 |
| C239 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 72.5/42 |
| C240 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 71/42 |
| C241 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 69.7/32.5 |
| C242 | 4030009570 | S.CER C1608 CH 1H 0R3B-T | T | 73.2/44.2 |
| C243 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 70.5/34.7 |
| C244 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 68.2/37 |
| C245 | 4030006940 | S.CER C1608 CH 1H 030C-T | T | 73.2/45.7 |
| C246 | 4030006940 | S.CER C1608 CH 1H 030C-T | T | 69.5/46.5 |
| C247 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 62.4/32.9 |
| C248 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 73.2/47.2 |
| C249 | 4030010780 | S.CER C1608 CH 1H 1R5C-T | T | 69.5/49.2 |
| C250 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 73.2/49.2 |
| C251 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 67.7/49.2 |
| C252 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 61.7/36.2 |
| C253 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 63.7/48.5 |
| C254 | 4030006980 | S.CER C1608 CH 1H 070D-T | T | 66.2/49.2 |
| C255 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 63.7/50 |
| C256 | 4030007070 | S.CER C1608 CH 1H 330J-T | T | 63.7/51.7 |
| C257 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 73.5/63 |
| C258 | 4030006970 | S.CER C1608 CH 1H 060D-T | T | 75/64.5 |
| C259 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 75.7/59.2 |
| C260 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 80.7/65.2 |
| C261 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 77.7/66.5 |
| C262 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 79.2/66.5 |
| C263 | 4030009910 | S.CER C1608 CH 1H 040B-T | T | 83/62.5 |
| C264 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 83/59.7 |
| C265 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 87.5/59.7 |
| C266 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 86.7/63.2 |
| C267 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 93/54 |
| C268 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 93/52.5 |
| C269 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 93.5/60.5 |
| C270 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 94.5/56.7 |
| C271 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 95/76 |
| C272 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 98/57.7 |
| C273 | 4030007030 | S.CER C1608 CH 1H 150J-T | T | 98/60.5 |
| C274 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 99.5/60.5 |
| C275 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 99.5/64 |
| C276 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 112/54.2 |
| C277 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 112/55.5 |
| C279 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 112/49.2 |
| C280 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 101/66.7 |
| C281 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 112/47.7 |
| C282 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 111.2/58.5 |
| C283 | 4030006980 | S.CER C1608 CH 1H 070D-T | T | 110.7/61.2 |
| C284 | 4550006250 | S.TAN TEESVA 1A 106M8R | T | 111.5/71.5 |
| C285 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 114.7/81.2 |
| C286 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 115.5/72.7 |
| C287 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 91.2/88.1 |
| C288 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 117/72.7 |
| C289 | 4030008630 | S.CER C1608 JF 1H 104Z-T | T | 92.5/88.1 |
| C290 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 98.5/90.1 |
| C291 | 4030008630 | S.CER C1608 JF 1H 104Z-T | T | 100/90.1 |
| C292 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 120/72.7 |
| C293 | 4030011070 | S.CER GRM31M2C2H5R0CY21L | T | 115.6/97.5 |
| C294 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 106.8/90.1 |
| C295 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 102.2/96 |
| C296 | 4030008920 | S.CER C1608 JB 1H 473K-T | T | 105.5/75.5 |
| C297 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 105.2/95 |
| C298 | 4030008630 | S.CER C1608 JF 1H 104Z-T | T | 108.2/90.1 |
| C299 | 4030011020 | S.CER GRM31M4C2H1R0CY21L | T | 107.5/98.7 |
| C300 | 4030006940 | S.CER C1608 CH 1H 030C-T | T | 108.2/95 |
| C301 | 4030011090 | S.CER GRM31M2C2H7R0DV01L | T | 110.6/98.7 |
| C302 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 107.2/80.5 |
| C303 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 117.4/90 |
| C304 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 103/79.2 |
| C305 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 100.2/96 |
| C306 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 99.7/102.2 |
| C307 | 4030008630 | S.CER C1608 JF 1H 104Z-T | T | 116.1/90 |
| C308 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 101.7/79.2 |
| C309 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 100.7/76.2 |
| C310 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 114.8/90 |
| C311 | 4030011020 | S.CER GRM31M4C2H1R0CY21L | T | 103.1/103.7 |
| C312 | 4030006940 | S.CER C1608 CH 1H 030C-T | T | 99.7/105.2 |
| C313 | 4030011080 | S.CER GRM31M2C2H6R0DV01L | T | 103.1/106.2 |
| C314 | 4030017190 | S.CER GRM31AR32J471KW01D | T | 112.5/109.3 |
| C315 | 4030011060 | S.CER GRM31M2C2H4R0CY21L | T | 112.5/113.1 |

[MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|--------------------------|----|--------------|
| C316 | 4030011150 | S.CER GRM31M2C2H130JV01L | T | 112.5/118.1 |
| C317 | 4030011110 | S.CER GRM31M2C2H9R0DV01L | T | 112.5/122.5 |
| C318 | 4030011060 | S.CER GRM31M2C2H4R0CY21L | T | 112.5/125 |
| C319 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 64.5/45.5 |
| C320 | 4030009910 | S.CER C1608 CH 1H 040B-T | T | 63.7/41 |
| C322 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 37.5/45.3 |
| C323 | 4550000460 | S.TAN TEESVA 1C 105M8R | B | 45.2/49.5 |
| C324 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 41.2/20.2 |
| C325 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 42.2/43.2 |
| C326 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 55.2/31 |
| C327 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 48.7/34.5 |
| C328 | 4030007000 | S.CER C1608 CH 1H 090D-T | T | 49/53 |
| C329 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 54.7/46.6 |
| C330 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 39/21.8 |
| C331 | 4030009910 | S.CER C1608 CH 1H 040B-T | T | 99.3/54.2 |
| C333 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 85.8/38.3 |
| J1 | 6510009351 | CNR B2B-ZR (LF) (SN) | | |
| J2 | 6510021720 | S.CNR 30FLT-SM1-TB | T | 23/107.2 |
| J3 | 6510021720 | S.CNR 30FLT-SM1-TB | T | 45/107.2 |
| J4 | 6510018450 | CNR TMP-S01X-B1 | | |
| W1 | 8900004880 | CBL OPC-465 | | |
| EP1 | 6910013310 | S.BEA MMZ1608D121B | T | 33.7/16.7 |
| EP2 | 6910013310 | S.BEA MMZ1608D121B | T | 23.2/50.5 |
| EP200 | 6910013310 | S.BEA MMZ1608D121B | T | 83.5/39 |
| EP201 | 6910013310 | S.BEA MMZ1608D121B | T | 82.2/65.7 |
| EP202 | 6910013310 | S.BEA MMZ1608D121B | T | 90.2/80.7 |
| EP203 | 6910013310 | S.BEA MMZ1608D121B | T | 111.2/45.7 |
| EP204 | 6910013310 | S.BEA MMZ1608D121B | T | 118.5/72.7 |

[FRONT UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|-----------------------------|----|--------------|
| D1 | 1790001711 | S.DIO NNCD5.6C-T1-A | T | 36.9/71.8 |
| D2 | 1790001711 | S.DIO NNCD5.6C-T1-A | T | 32.9/71.8 |
| D3 | 1790001711 | S.DIO NNCD5.6C-T1-A | T | 24.9/71.8 |
| D4 | 1790001711 | S.DIO NNCD5.6C-T1-A | T | 20.9/71.8 |
| D5 | 1790001711 | S.DIO NNCD5.6C-T1-A | T | 16.9/71.7 |
| D6 | 1790001711 | S.DIO NNCD5.6C-T1-A | T | 12.9/71.8 |
| D7 | 1790000700 | DIO DSA3A1 | | |
| D8 | 1790001711 | S.DIO NNCD5.6C-T1-A | T | 28.9/71.8 |
| R1 | 7030003300 | S.RES ERJ3GEYJ 680 V (68) | T | 36/76.4 |
| R2 | 7030003300 | S.RES ERJ3GEYJ 680 V (68) | T | 32/76.4 |
| R3 | 7030003300 | S.RES ERJ3GEYJ 680 V (68) | T | 24/76.4 |
| R4 | 7030003300 | S.RES ERJ3GEYJ 101 V (100) | T | 20/76.4 |
| R5 | 7030003320 | S.RES ERJ3GEYJ 101 V (100) | T | 16/76.4 |
| R6 | 7030003300 | S.RES ERJ3GEYJ 680 V (68) | T | 12/76.4 |
| R7 | 7030011030 | S.RES ERJ1TYJ 270U (27) | T | 35.3/21.3 |
| R8 | 7030003340 | S.RES ERJ3GEYJ 151 V (150) | T | 28/76.4 |

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

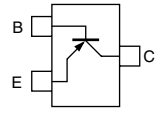
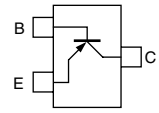
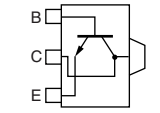
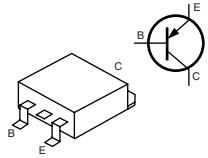
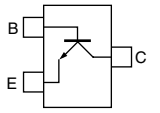
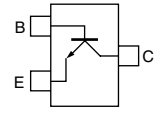
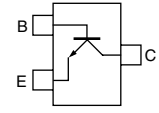
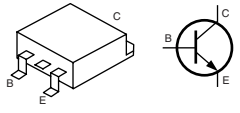
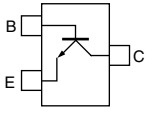
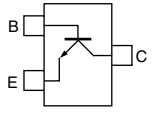
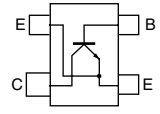
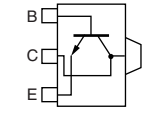
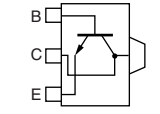
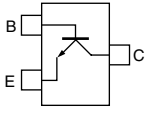
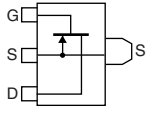
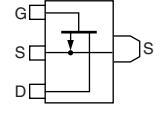
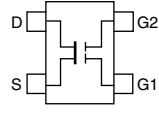
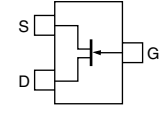
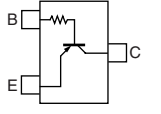
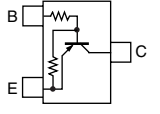
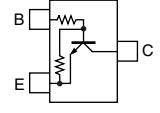
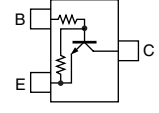
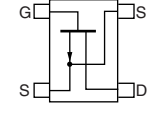
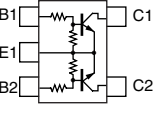
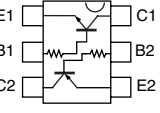
[REAR UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---------|------------|-------------------------------|----|--------------|
| C7 | 4510008800 | S.ELE EEE1EA100SR | T | 40.8/26.6 |
| J1 | 6510018921 | S.CNR B8B-PH-SM4-TB (LF) (SN) | T | 23.9/43 |
| J2 | 6510016171 | CNR 52018-8836 | T | |
| J3 | 6510023261 | S.CNR B6B-PH-SM4-TB (LF) (SN) | T | 25.9/58.5 |
| J4 | 6510011591 | CNR B2P-VH (LF) (SN) | T | |
| J5 | 6510011461 | CNR B6P-VH (LF) (SN) | T | |
| J6 | 6510018961 | S.CNR B2B-PH-SM4-TB (LF) (SN) | T | 39.8/36.3 |

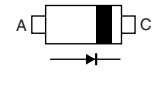
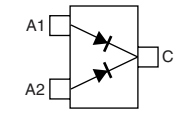
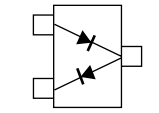
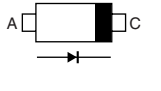
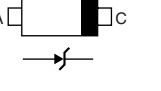
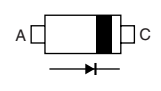
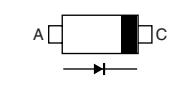
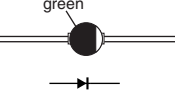
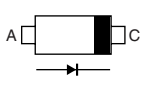
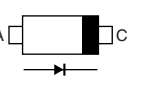
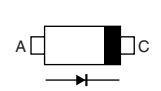
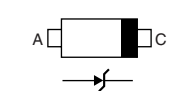
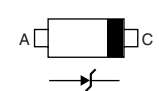
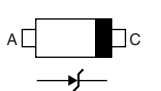
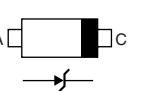
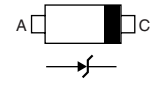
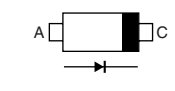
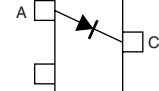
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

SECTION 5 SEMICONDUCTOR INFORMATION

• TRANSISTORS AND FET'S

| | | | | |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 2SA1362 GR (Symbol: AEG)  | 2SA1586 GR (Symbol: SG)  | 2SB798 T2 DK (Symbol: DK)  | 2SB934 P (Symbol: None)  | 2SC4081 T106 S (Symbol: BS)  |
| 2SC4215 O (Symbol: QO)  | 2SC4226 T1 R25 (Symbol: R25)  | 2SC4684 (Symbol: 2SC4684)  | 2SC5107 O (Symbol: MFO)  | 2SC5195 (Symbol: 88)  |
| 2SC5454 R54 (Symbol: R54)  | 2SD1619 T TD (Symbol: DB)  | 2SD1801 S TL (Symbol: CE)  | 2SD2216J (Symbol: Y)  | 2SK2854 (Symbol: UP)  |
| 2SK2855 (Symbol: UT)  | 3SK241 (Symbol: DU)  | DTA114EUA T106 (Symbol: 14)  | DTA143TUA (Symbol: 93)  | DTA144EUA T106 (Symbol: 16)  |
| DTC143ZUA (Symbol: 123)  | DTC144EUA T106 (Symbol: 26)  | NE34018-T1 64 (Symbol: V64)  | XP1214 (Symbol: 9H)  | XP4315 (Symbol: CB)  |

• DIODES

| | | | | |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1SS355 (Symbol: A)  | 1SS364 (Symbol: BF)  | 1SS372 (Symbol: N9)  | 1SV239 (Symbol: TC)  | 1SV282 (Symbol: TD)  |
| 1SV307 (Symbol: TX)  | 1SV308 (Symbol: TX)  | DSA3A1 (Color: Green)  | HSU88TRF (Symbol: 9)  | MA2S077 (Symbol: S)  |
| MA2S728 (Symbol: B)  | MA8030 H (Symbol: 3^0)  | MA8033 L (Symbol: 3_3)  | MA8062 M (Symbol: 6-2)  | MA8082 M (Symbol: 8-2)  |
| MA8091 M (Symbol: 9-1)  | NNCD5.6C-T1 (Symbol: NNCD5.6)  | SB07-03C (Symbol: J)  | | |

SECTION 6 MECHANICAL PARTS

[CASE]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|--------------------------------|------|
| MF1 | 2710000750 | FBA08A12LZ (RIB) | 1 |
| W1 | 8900013140 | OPC-1323 (2731 POWER-SW CABLE) | 1 |
| W2 | 8900013210 | OPC-1307 (2731 DC CABLE) | 1 |
| W3 | 8900013240 | OPC-1373 (2731 FAN CABLE) | 1 |
| W4 | 8900013170 | OPC-1306 (2731 TRX-ANT CABLE) | 1 |
| W5 | 8900013170 | OPC-1306 (2731 TRX-ANT CABLE) | 1 |
| EP1 | 6910008330 | G80-18 | 1 |
| MP1 | 8010019581 | 2732 CHASSIS-1 | 1 |
| MP2 | 8930062871 | 2731 R-PLATE-1 | 1 |
| MP3 | 8930062861 | 2731 L-PLATE-1 | 1 |
| MP4 | 8110008171 | 2731 COVER-1 | 1 |
| MP5 | 8210023000 | 2732 PANEL (B) | 1 |
| MP6 | 8930062851 | 2731 M-PLATE-1 | 2 |
| MP7 | 8930062851 | 2731 M-PLATE-1 | 2 |
| MP8 | 8930062841 | 2731 FAN HOLDER-1 | 2 |
| MP9 | 8930063090 | BH-60S | 1 |
| MP10 | 8850002040 | Z-8S | 4 |
| MP12 | 8930048350 | 2146 LENS | 1 |
| MP13 | 8950003170 | Nylon clip SL-8N | 1 |
| MP14 | 8810006470 | setscrew (C) 4x12 SUS | 4 |
| MP15 | 8810003361 | setscrew (C) 3x6 ZC3 | 4 |
| MP16 | 8810003361 | setscrew (C) 3x6 ZC3 | 4 |
| MP17 | 8810003361 | setscrew (C) 3x6 ZC3 | 4 |
| MP18 | 8810003361 | setscrew (C) 3x6 ZC3 | 4 |
| MP20 | 8810003361 | setscrew (C) 3x6 ZC3 | 1 |
| MP21 | 8810002950 | binding screw M3x6 SUS | 12 |
| MP22 | 8810002950 | binding screw M3x6 SUS | 2 |
| MP23 | 8810002950 | binding screw M3x6 SUS | 1 |
| MP24 | 8810010131 | setscrew (C) 3x35 ZC3 | 4 |
| MP25 | 8810003391 | setscrew (C) 4x8 ZC3 | 4 |
| MP26 | 8810003391 | setscrew (C) 4x8 ZC3 | 4 |
| MP27 | 8830000111 | Nut M4 ZC3 | 1 |
| MP28 | 8850000140 | flat washer M4 BS NI | 1 |
| MP29 | 8850000130 | flat washer M3 BS NI 3x8x0.5 | 1 |
| MP30 | 8810002950 | binding screw M3x6 SUS | 2 |

[FRONT UNIT]

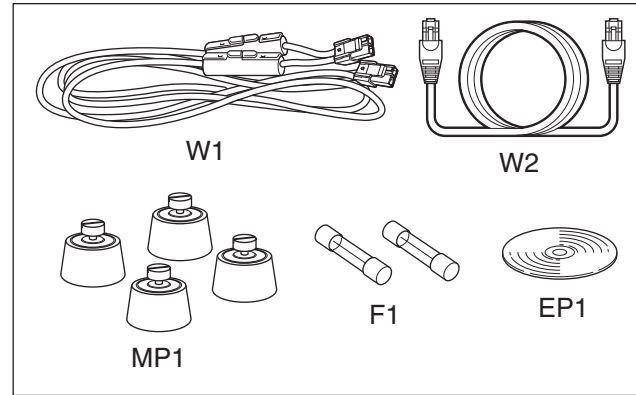
| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|-------------------------|------|
| J1 | 6450002101 | CMS1410-016010 | 1 |
| J2 | 6450002101 | CMS1410-016010 | 1 |
| J3 | 6510020251 | B9B-PH-SM4-TB (LF) (SN) | 1 |
| J4 | 6510022311 | B5B-PH-SM4-TB (LF) (SN) | 1 |
| DS1 | 5040003070 | MPG4371F | 1 |
| S1 | 2220000631 | MFS201N-16-Z | 1 |

[REAR UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|-------------|------|
| J2 | 6510016171 | 52018-8836 | 1 |

[ACCESSORIES]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|-----------------------------|------|
| F1 | 5210000071 | FGB 10A PBF | 2 |
| W1 | 8900013190 | OPC-1309 (2731 DC-IN CABLE) | 1 |
| W2 | 8900010551 | OPC-1069A | 1 |
| EP1 | 7800000330 | Utility CD | 1 |
| MP1 | 8930057680 | Rubber leg (O) | 4 |



Screw abbreviations BiH: Binding head
SUS: Stainless NI: Nickel
BS: Brass

[CHASSIS-T PARTS]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|-----------------------------|------|
| IC204 | 1150002042 | RA30H1317M-121 | 1 |
| J1 | 6510004910 | NR-DSE-01 | 1 |
| P1 | 5610000380 | TMP-K01X-A1 | 1 |
| P2 | 5610000380 | TMP-K01X-A1 | 1 |
| MF1 | 2710000590 | MF40D-12H-001 * | 1 |
| W1 | 8900010890 | OPC-1115 | 1 |
| W2 | 8900010890 | OPC-1115 | 1 |
| W3 | 9025900540 | 62/99/270/C31/C31 | 1 |
| W4 | 9086700300 | 08 | 1 |
| MP1 | 8010019621 | 2506 CHASSIS (A)-2 | 1 |
| MP2 | 8810008661 | Screw BT B0 3x8 NI-ZC3 (BT) | 2 |
| MP3 | 8810008661 | Screw BT B0 3x8 NI-ZC3 (BT) | 2 |
| MP4 | 8810008661 | Screw BT B0 3x8 NI-ZC3 (BT) | 7 |
| MP5 | 8110006640 | 2047 COVER | 1 |
| MP6 | 8810008451 | binding screw M4x8 ZK3 | 1 |
| MP7 | 8810008661 | Screw BT B0 3x8 NI-ZC3 (BT) | 1 |
| MP9 | 8110005751 | 1729 FAN COVER-1 | 1 |
| MP10 | 8810009111 | Screw M2.6x16 ZK3 | 4 |
| MP11 | 8510012210 | 2047 MAIN SHIELD | 2 |
| MP12 | 8810007131 | setscrew (H) 3x6 ZC3 | 4 |
| MP13 | 8930001170 | earth spring (A) (FX-294) | 1 |

[MAIN-T UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|------------------------|------|
| J1 | 6510009351 | B2B-ZR (LF) (SN) | 1 |
| J2 | 6510021721 | 30FLT-SM2-TB (LF) (SN) | 1 |
| J3 | 6510021721 | 30FLT-SM2-TB (LF) (SN) | 1 |
| J4 | 6510018450 | TMP-S01X-B1 | 1 |
| W1 | 8900004880 | OPC-465 | 1 |
| MP1 | 8510011111 | 1922 VCO CASE-1 | 1 |
| MP2 | 8510011111 | 1922 VCO CASE-1 | 1 |
| MP3 | 8510014760 | 2493 PLL CASE | 1 |
| MP4 | 8510017220 | 2850 VCO COVER | 1 |
| MP5 | 8510017220 | 2850 VCO COVER | 1 |
| MP6 | 8510014750 | 2493 PLL COVER | 1 |
| MP7 | 8930056580 | Spacer (AD) | 4 |
| MP8 | 8810007131 | setscrew (H) 3x6 ZC3 | 4 |
| MP9 | 8930059770 | 2633 M-HOLDER | 1 |
| MP10 | 8930014140 | earth spring (D) | 1 |

[LOGIC-T UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|-------------------------------|------|
| J1 | 6510022711 | 30FLZ-SM2-TB (LF) (SN) | 1 |
| J2 | 6510022711 | 30FLZ-SM2-TB (LF) (SN) | 1 |
| J4 | 6510019271 | 52365-0671 | 1 |
| J5 | 6510021431 | S8B-ZR-SM4A-TF (LF) (SN) | 1 |
| J6 | 6510023861 | S9B-ZR-SM4A-TF (LF) (SN) | 1 |
| W1 | 8900013180 | OPC-1312 (2732 TX-CTRL CABLE) | 1 |
| MP1 | 8510014481 | 2506 CPU SHIELD-1 | 1 |
| MP3 | 8510002280 | VCO shield plate (A) (FX-15) | 1 |

[CHASSIS-R PARTS]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|-----------------------------|------|
| J1 | 6510004910 | NR-DSE-01 | 1 |
| W1 | 8900010890 | OPC-1115 | 1 |
| W2 | 8900010890 | OPC-1115 | 1 |
| MP1 | 8010019621 | 2506 CHASSIS (A)-2 | 1 |
| MP2 | 8810008661 | screw BT B0 3x8 NI-ZC3 (BT) | 2 |
| MP3 | 8810008661 | screw BT B0 3x8 NI-ZC3 (BT) | 1 |
| MP4 | 8810008661 | screw BT B0 3x8 NI-ZC3 (BT) | 7 |
| MP5 | 8110006640 | 2047 COVER | 1 |
| MP6 | 8810008451 | binding screw M4x8 ZK3 | 1 |
| MP7 | 8510012210 | 2047 MAIN SHIELD | 2 |
| MP8 | 8810007131 | setscrew (H) 3x6 ZC3 | 4 |

[MAIN-R UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|------------------------------|------|
| J1 | 6510021721 | 30FLT-SM2-TB (LF) (SN) | 1 |
| J2 | 6510021721 | 30FLT-SM2-TB (LF) (SN) | 1 |
| J3 | 6510018450 | TMP-S01X-B1 | 1 |
| W1 | 8900004880 | OPC-465 | 1 |
| EP2 | 6910013310 | MMZ1608D121B | 1 |
| MP1 | 8510011111 | 1922 VCO CASE-1 | 1 |
| MP2 | 8510017220 | 2850 VCO COVER | 1 |
| MP3 | 8930056580 | Spacer (AD) | 4 |
| MP4 | 8810007131 | setscrew (H) 3x6 ZC3 | 4 |
| MP5 | 8510002280 | VCO shield plate (A) (FX-15) | 1 |
| MP6 | 8930014140 | earth spring (D) | 1 |
| MP7 | 8510016420 | 2506 VCO CASE | 1 |
| MP8 | 8510016430 | 2506 VCO COVER | 1 |

[LOGIC-R UNIT]

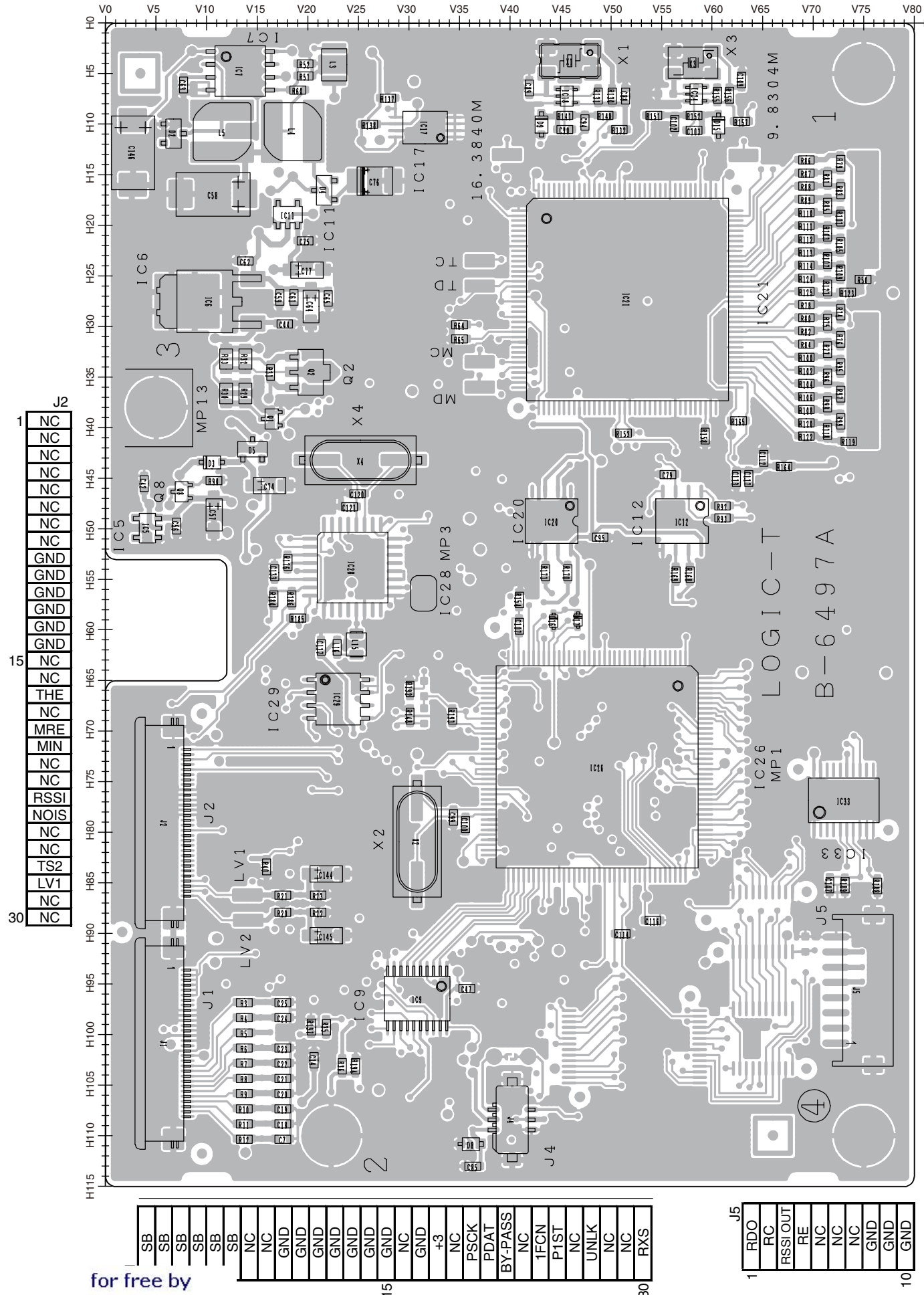
| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|----------|------------|--------------------------------|------|
| J1 | 6510022711 | 30FLZ-SM2-TB (LF) (SN) | 1 |
| J2 | 6510022711 | 30FLZ-SM2-TB (LF) (SN) | 1 |
| J4 | 6510019271 | 52365-0671 | 1 |
| J5 | 6510021431 | S8B-ZR-SM4A-TF (LF) (SN) | 1 |
| J6 | 6510023861 | S9B-ZR-SM4A-TF (LF) (SN) | 1 |
| W1 | 8900013161 | OPC-1313A (2732 RX-CTRL CABLE) | 1 |
| MP1 | 8510014481 | 2506 CPU SHIELD-1 | 1 |
| MP3 | 8510002280 | VCO shield plate (A) (FX-15) | 1 |
| MP4 | 8510010460 | 1691 MAIN SHIELD PLATE | 1 |
| MP5 | 8510010460 | 1691 MAIN SHIELD PLATE | 1 |

*Note: Refer to SECTION 9 BOARD LAYOUTS.

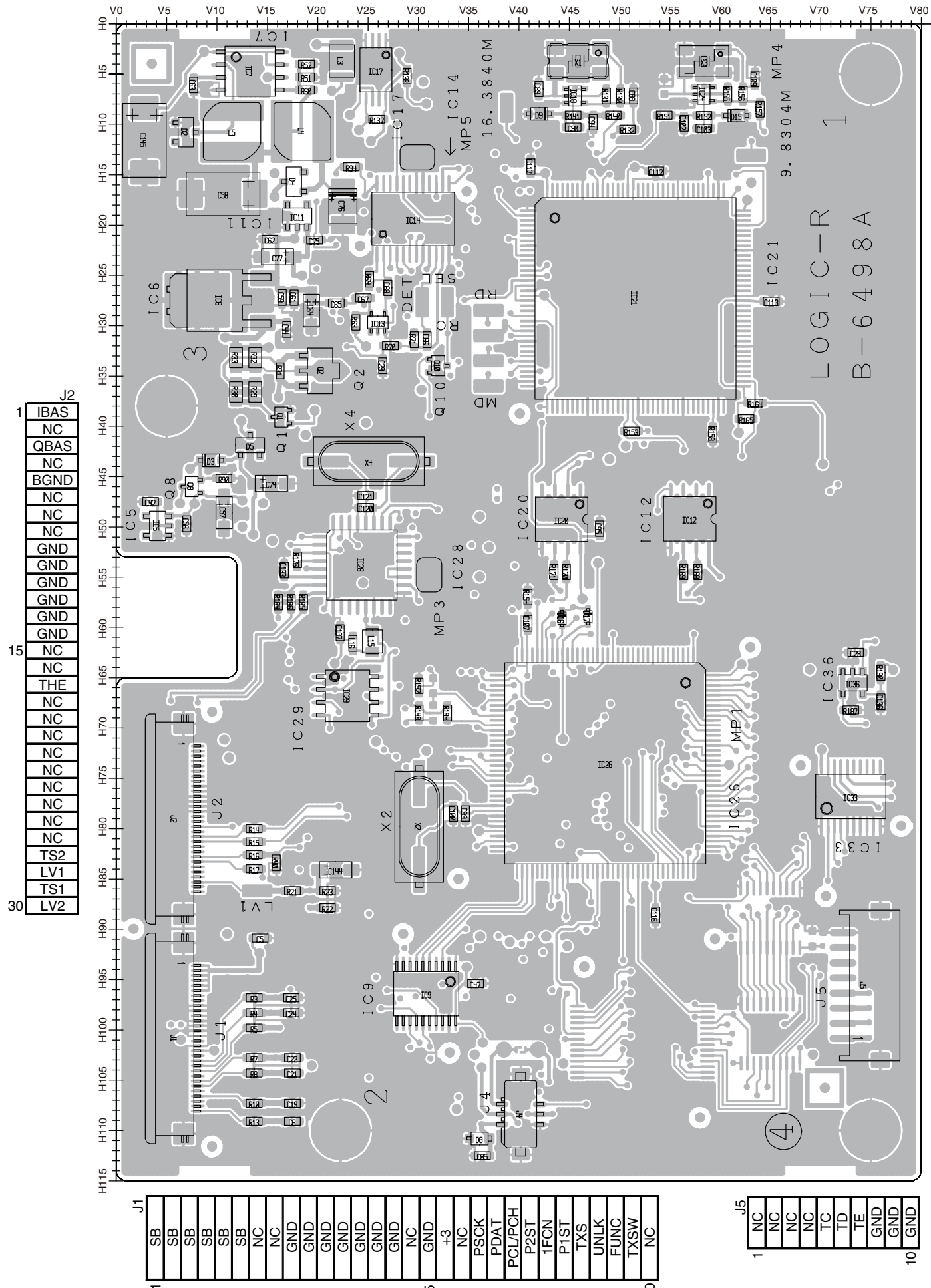
Screw abbreviations BT: Self-tapping PH: Pan head
BiH: Binding head
ZK, ZK3: Black ZC, ZC3: Black
NI-ZU: Nickel-Zinc

SECTION 7 BOARD LAYOUTS

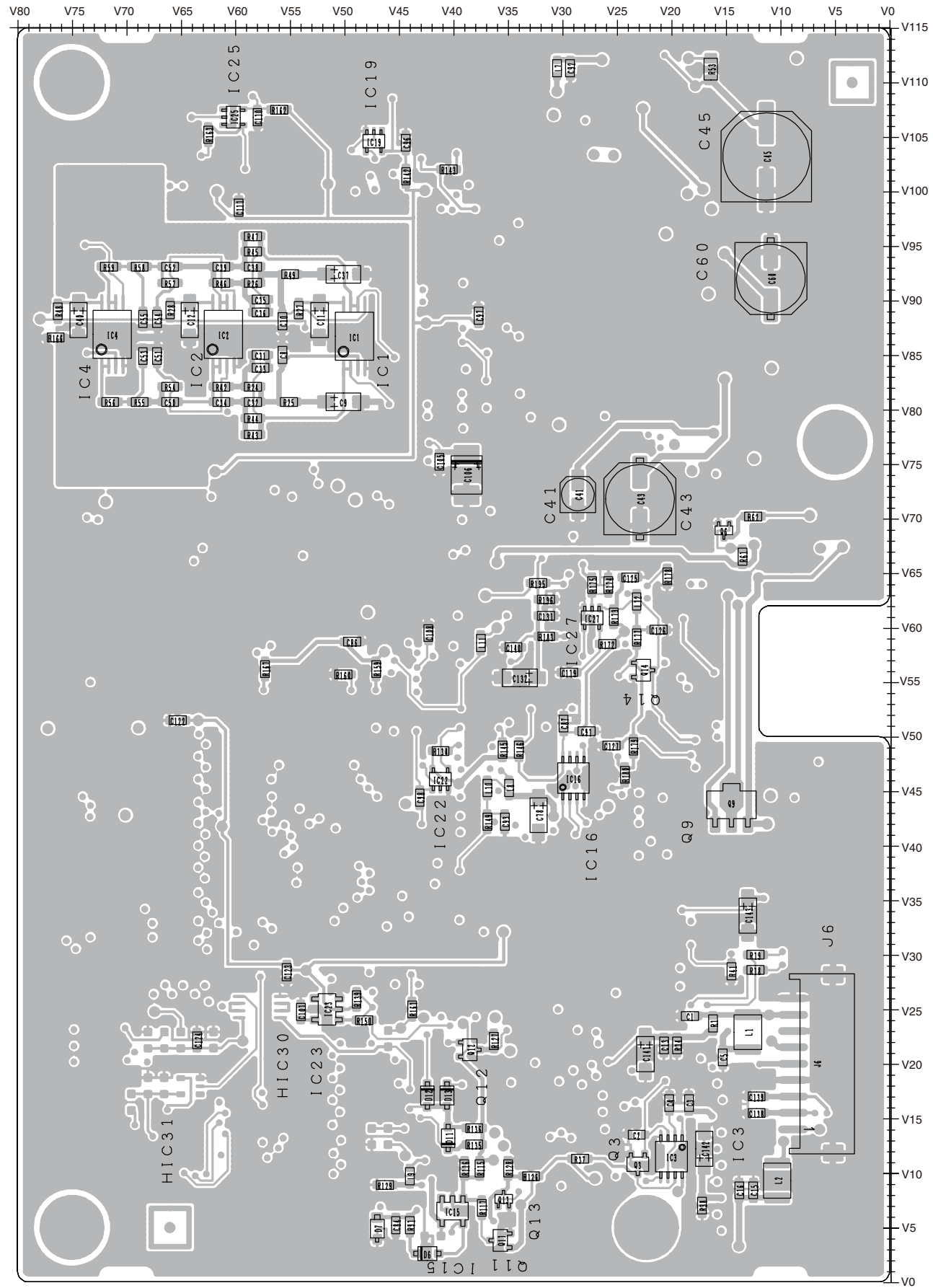
• LOGIC-R BOARD (TOP VIEW)



• LOGIC-T BOARD (TOP VIEW)

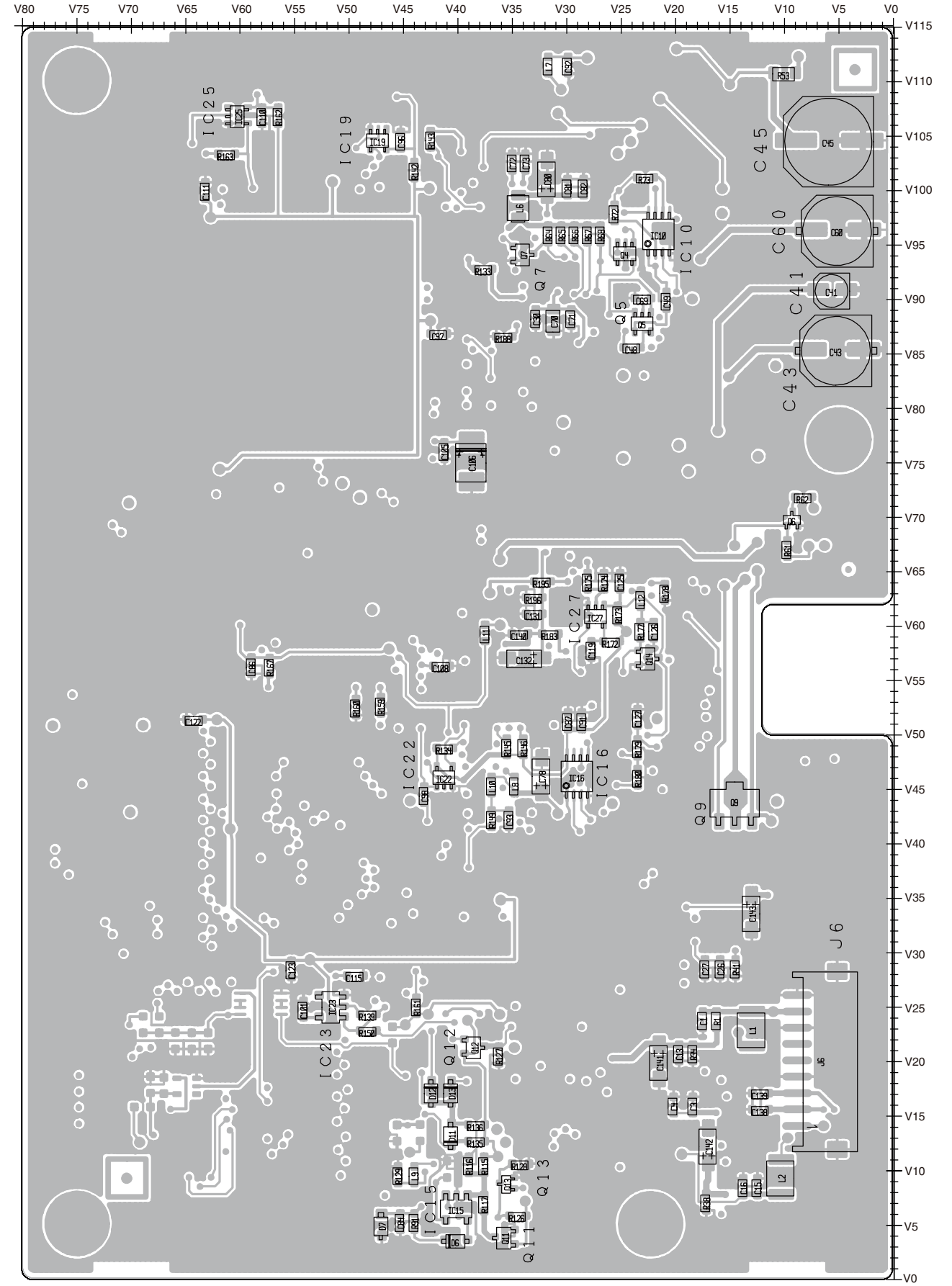


• LOGIC-T BOARD (BOTTOM VIEW)



| | | |
|----|----|-------|
| J6 | 1 | USBV |
| | 2 | USBDM |
| | 3 | USBDF |
| | 4 | GND |
| | 5 | HLS |
| | 6 | 5V |
| | 7 | GND |
| | 8 | SB |
| | 9 | GND |
| | 10 | GND |

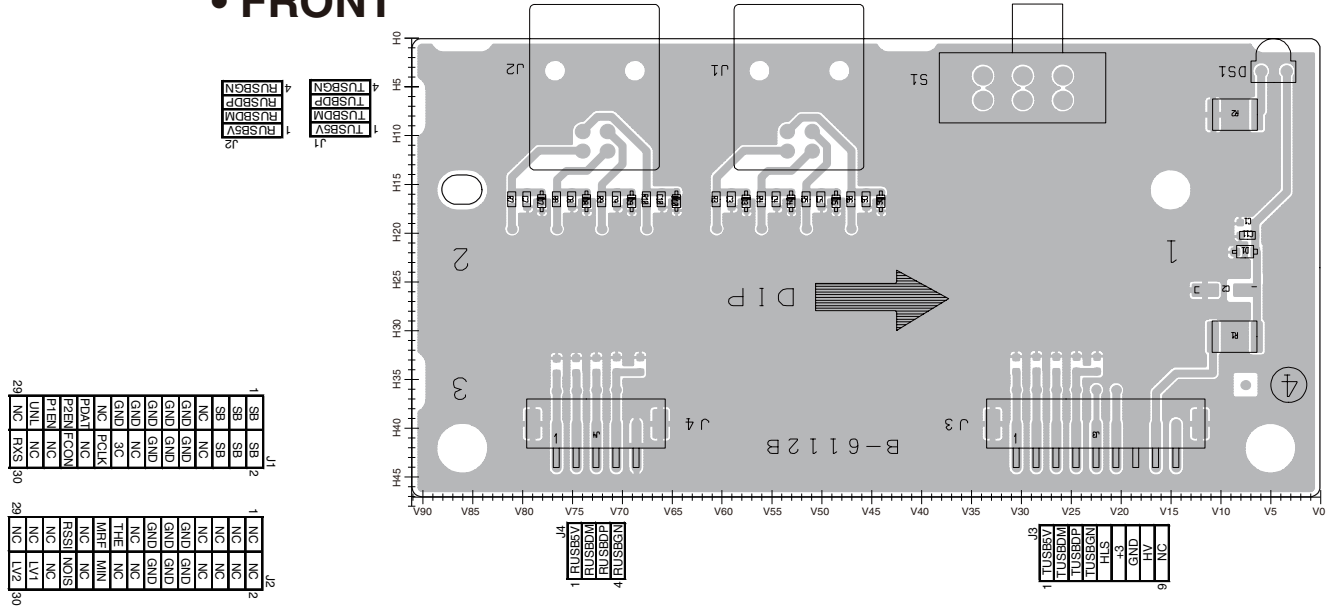
• LOGIC-R BOARD (BOTTOM VIEW)



| | | |
|----|----|-------|
| J6 | 1 | USBV |
| | 2 | USBDM |
| | 3 | USBDF |
| | 4 | GND |
| | 5 | NC |
| | 6 | NC |
| | 7 | GND |
| | 8 | SB |
| | 9 | GND |
| | 10 | GND |

The combination of this side and the bottom side shows the unit layout in the same configuration as the actual P.C. Board.

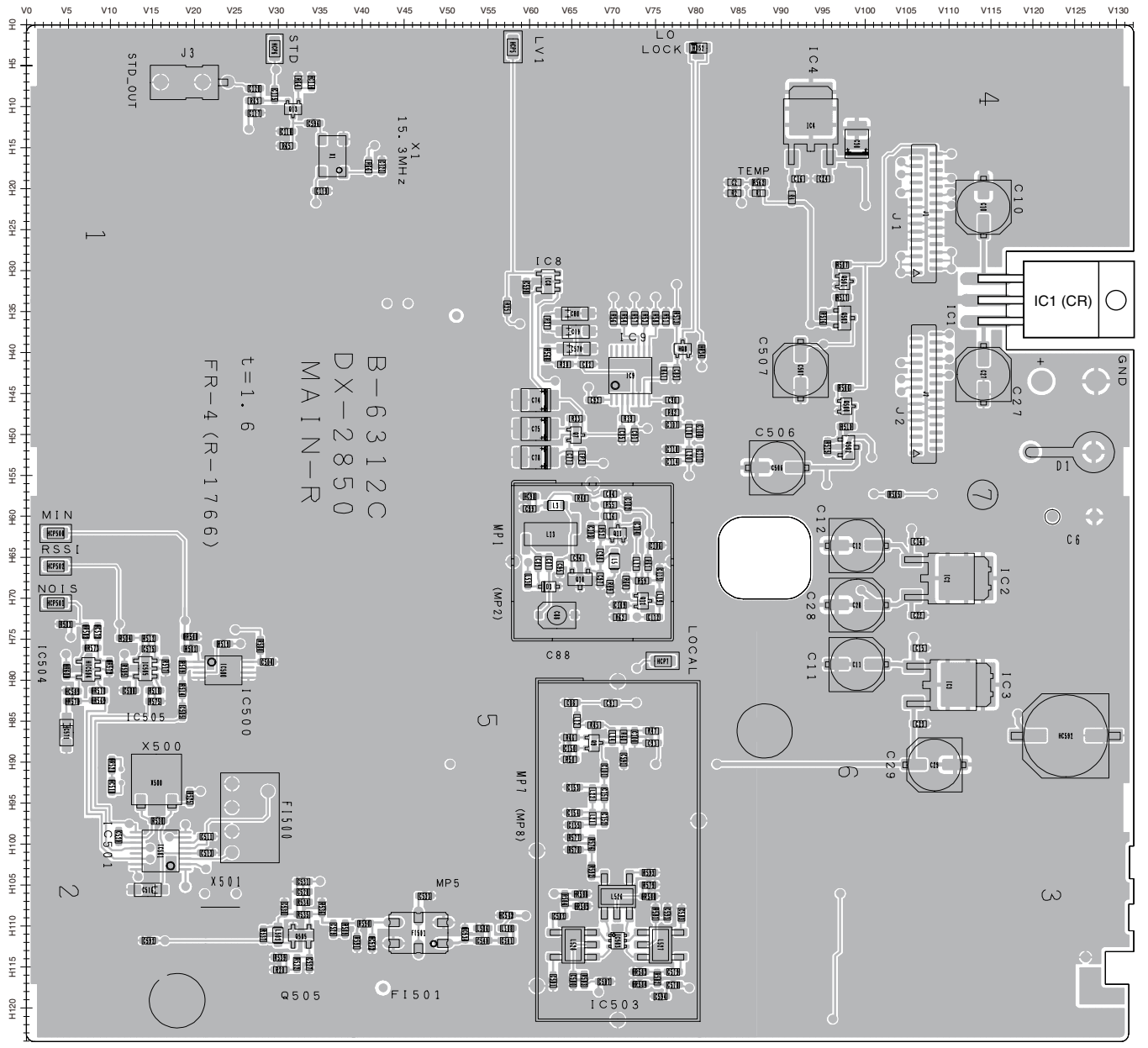
• FRONT



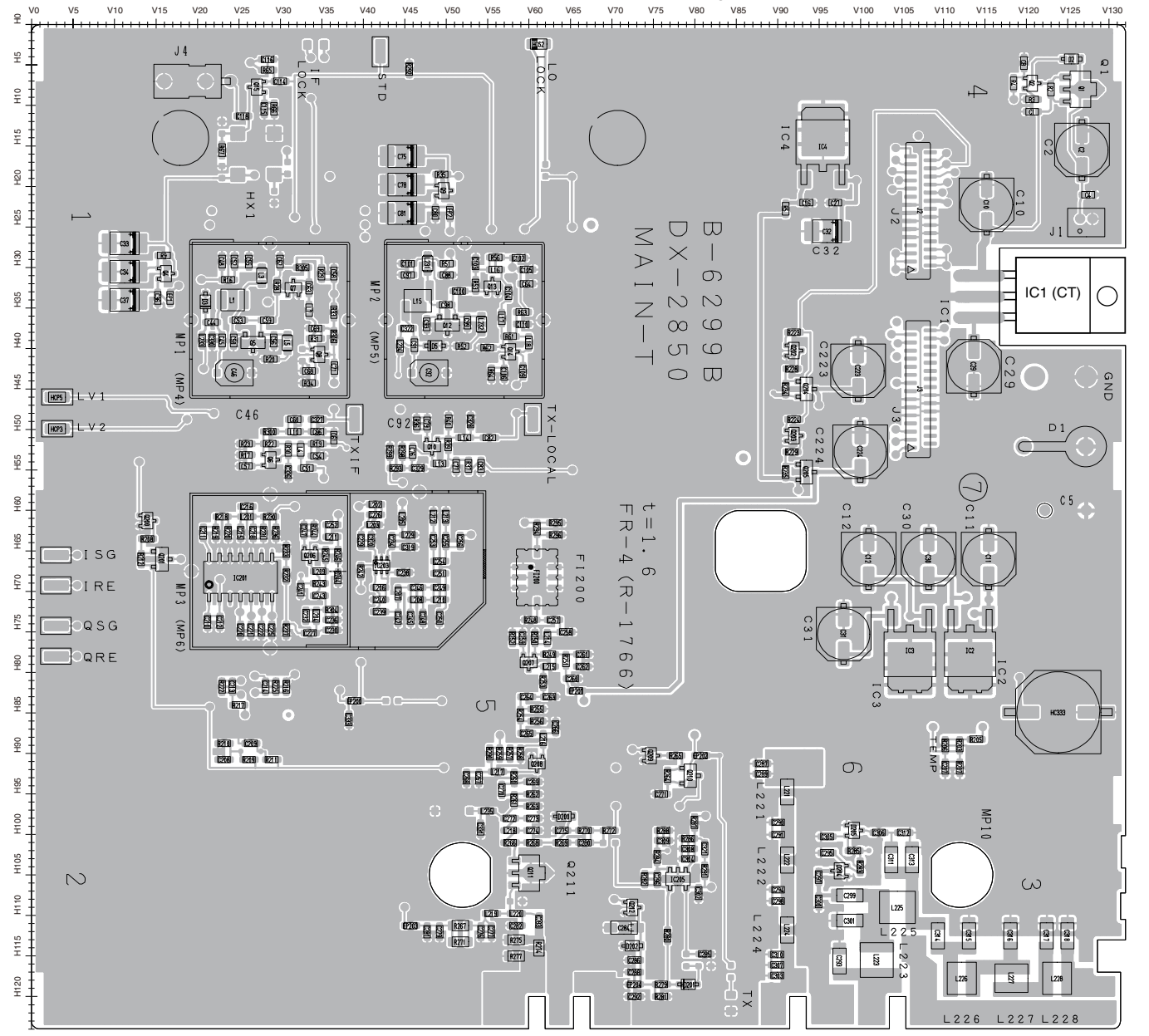
| | | |
|----|----|----|
| 1 | SB | NC |
| 2 | SB | NC |
| 3 | SB | NC |
| 4 | SB | NC |
| 5 | SB | NC |
| 6 | SB | NC |
| 7 | SB | NC |
| 8 | SB | NC |
| 9 | SB | NC |
| 10 | SB | NC |
| 11 | SB | NC |
| 12 | SB | NC |
| 13 | SB | NC |
| 14 | SB | NC |
| 15 | SB | NC |
| 16 | SB | NC |
| 17 | SB | NC |
| 18 | SB | NC |
| 19 | SB | NC |
| 20 | SB | NC |
| 21 | SB | NC |
| 22 | SB | NC |
| 23 | SB | NC |
| 24 | SB | NC |
| 25 | SB | NC |
| 26 | SB | NC |
| 27 | SB | NC |
| 28 | SB | NC |
| 29 | SB | NC |
| 30 | SB | NC |

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

• MAIN-R



• MAIN-T

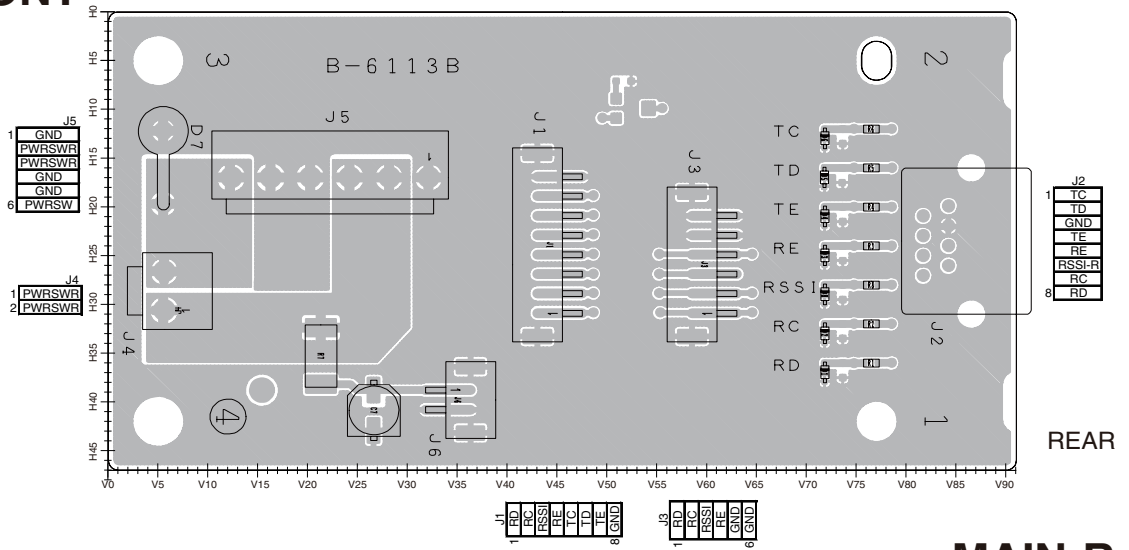


| | | |
|----|----|----|
| 1 | SB | NC |
| 2 | SB | NC |
| 3 | SB | NC |
| 4 | SB | NC |
| 5 | SB | NC |
| 6 | SB | NC |
| 7 | SB | NC |
| 8 | SB | NC |
| 9 | SB | NC |
| 10 | SB | NC |
| 11 | SB | NC |
| 12 | SB | NC |
| 13 | SB | NC |
| 14 | SB | NC |
| 15 | SB | NC |
| 16 | SB | NC |
| 17 | SB | NC |
| 18 | SB | NC |
| 19 | SB | NC |
| 20 | SB | NC |
| 21 | SB | NC |
| 22 | SB | NC |
| 23 | SB | NC |
| 24 | SB | NC |
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| 27 | SB | NC |
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| 29 | SB | NC |
| 30 | SB | NC |

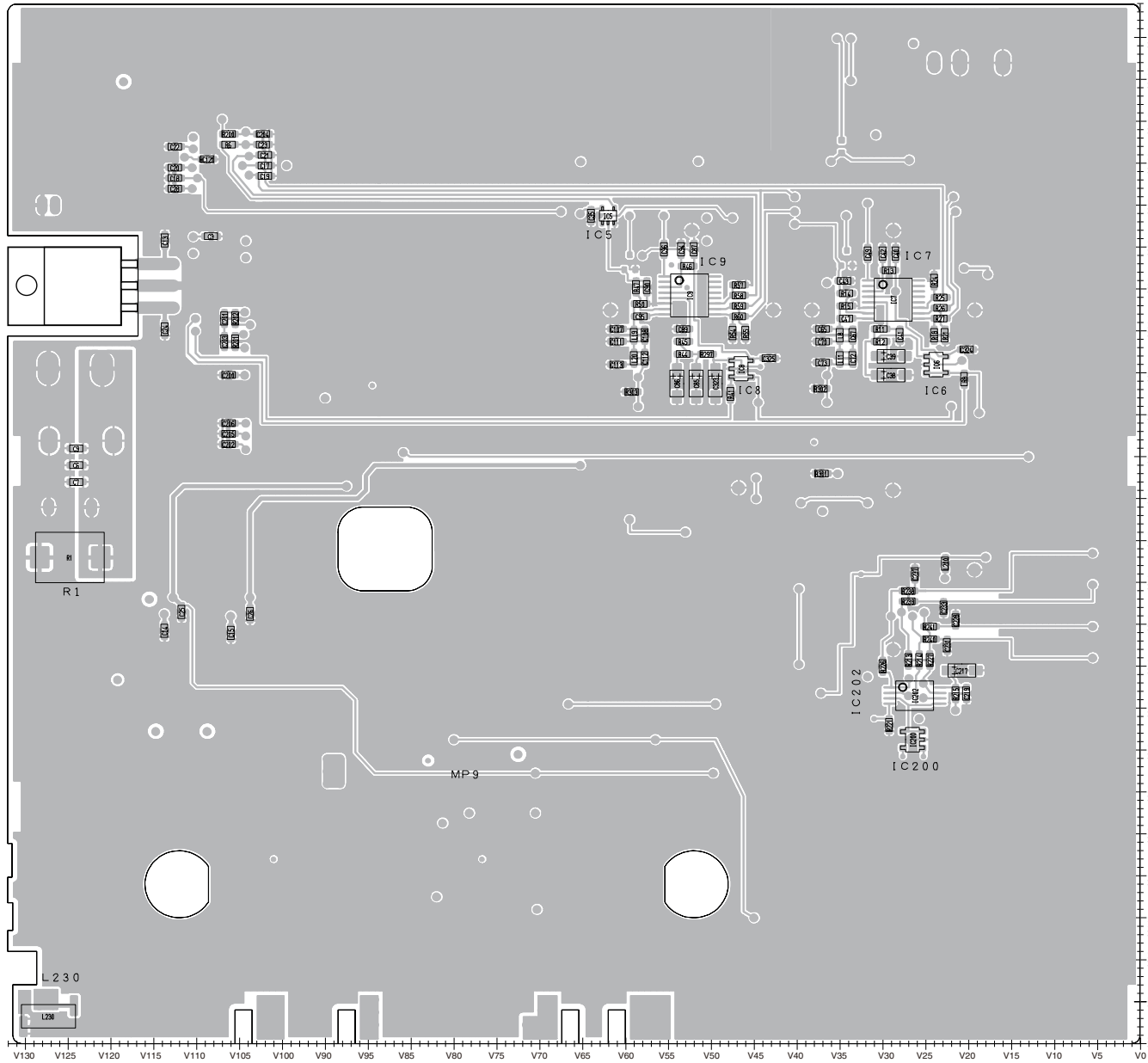
| | | |
|----|----|----|
| 1 | SB | NC |
| 2 | SB | NC |
| 3 | SB | NC |
| 4 | SB | NC |
| 5 | SB | NC |
| 6 | SB | NC |
| 7 | SB | NC |
| 8 | SB | NC |
| 9 | SB | NC |
| 10 | SB | NC |
| 11 | SB | NC |
| 12 | SB | NC |
| 13 | SB | NC |
| 14 | SB | NC |
| 15 | SB | NC |
| 16 | SB | NC |
| 17 | SB | NC |
| 18 | SB | NC |
| 19 | SB | NC |
| 20 | SB | NC |
| 21 | SB | NC |
| 22 | SB | NC |
| 23 | SB | NC |
| 24 | SB | NC |
| 25 | SB | NC |
| 26 | SB | NC |
| 27 | SB | NC |
| 28 | SB | NC |
| 29 | SB | NC |
| 30 | SB | NC |

The combination of this side and the bottom side shows the unit layout in the same configuration as the actual P.C. Board.

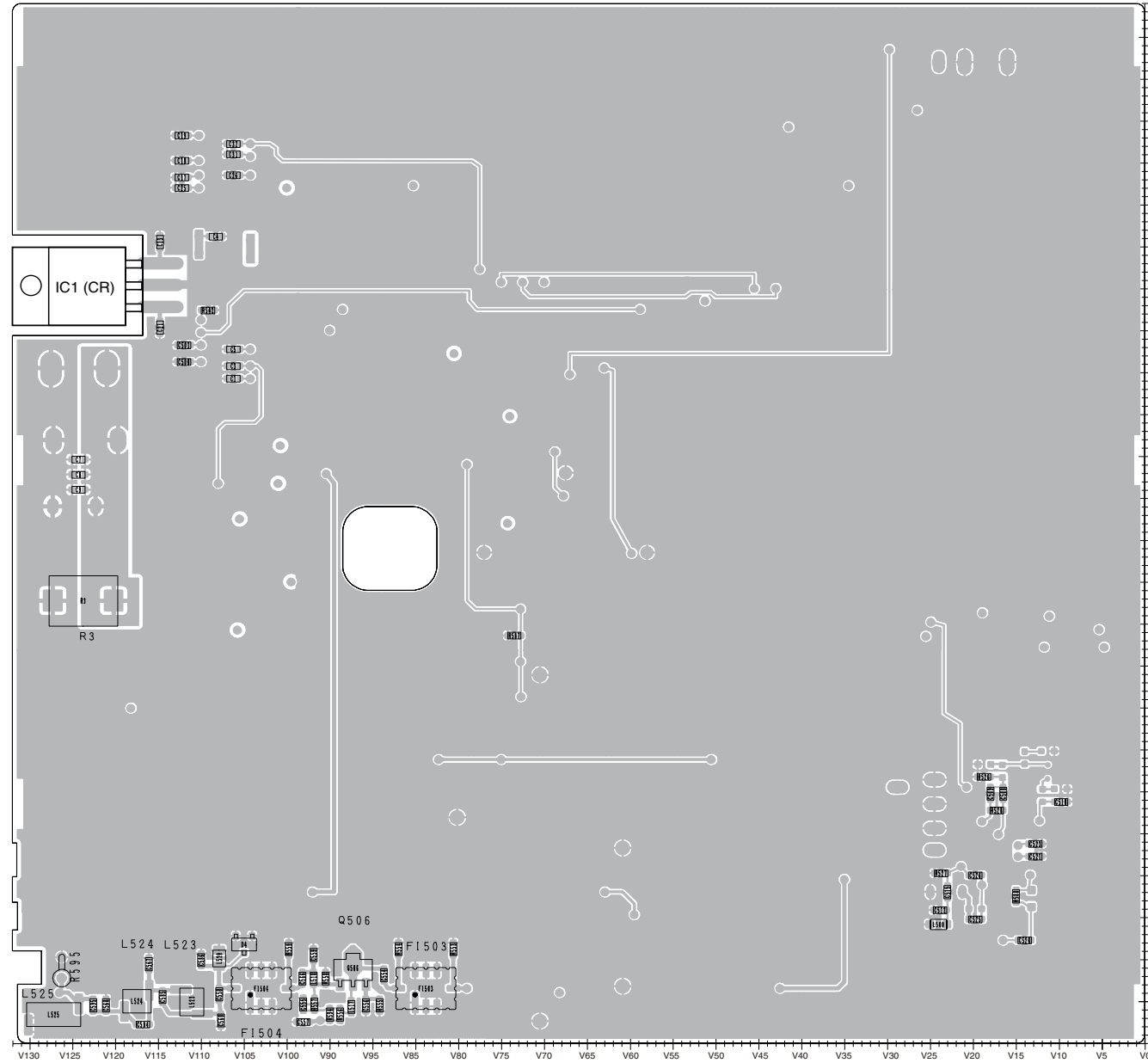
• FRONT



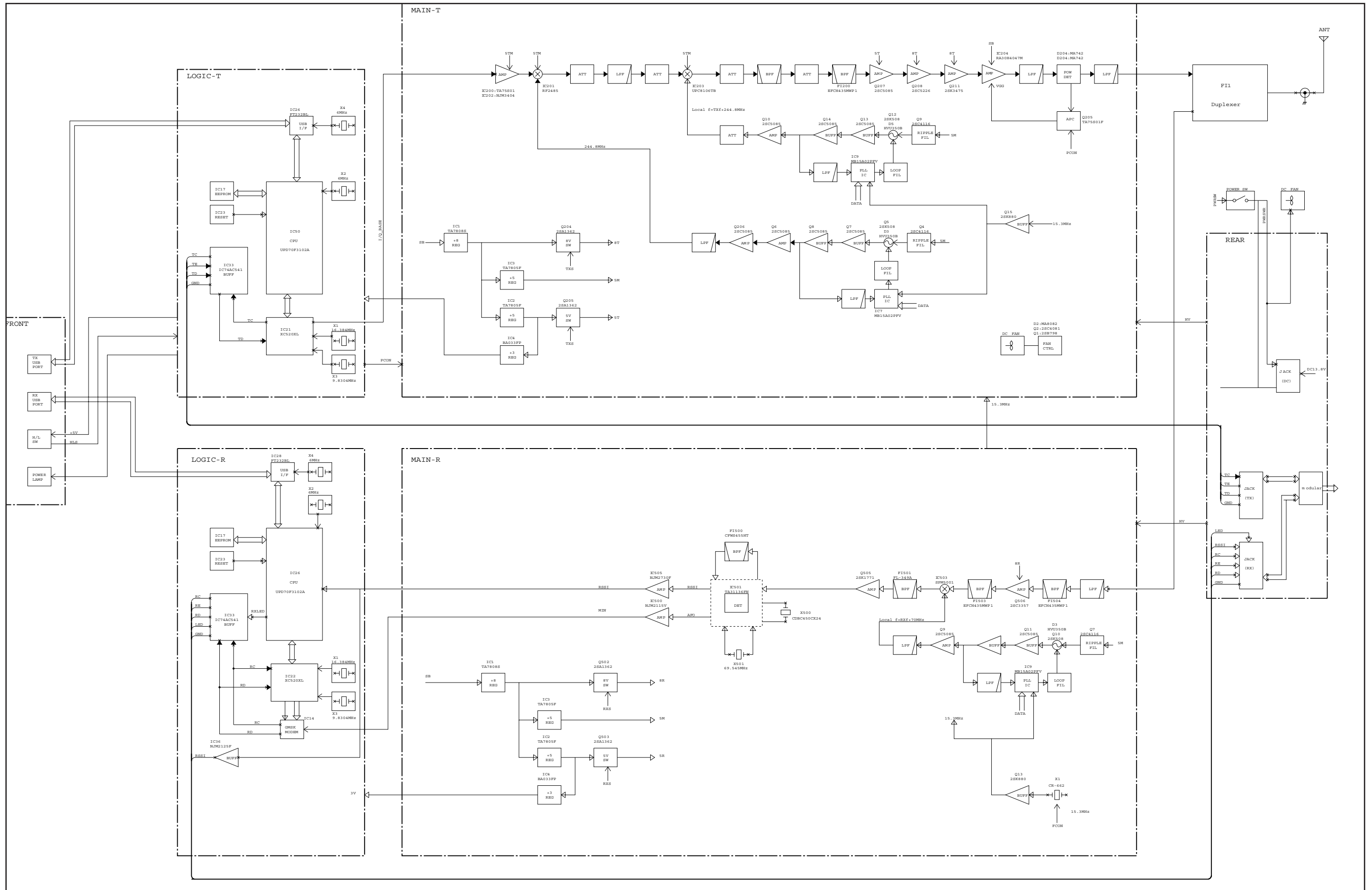
• MAIN-T



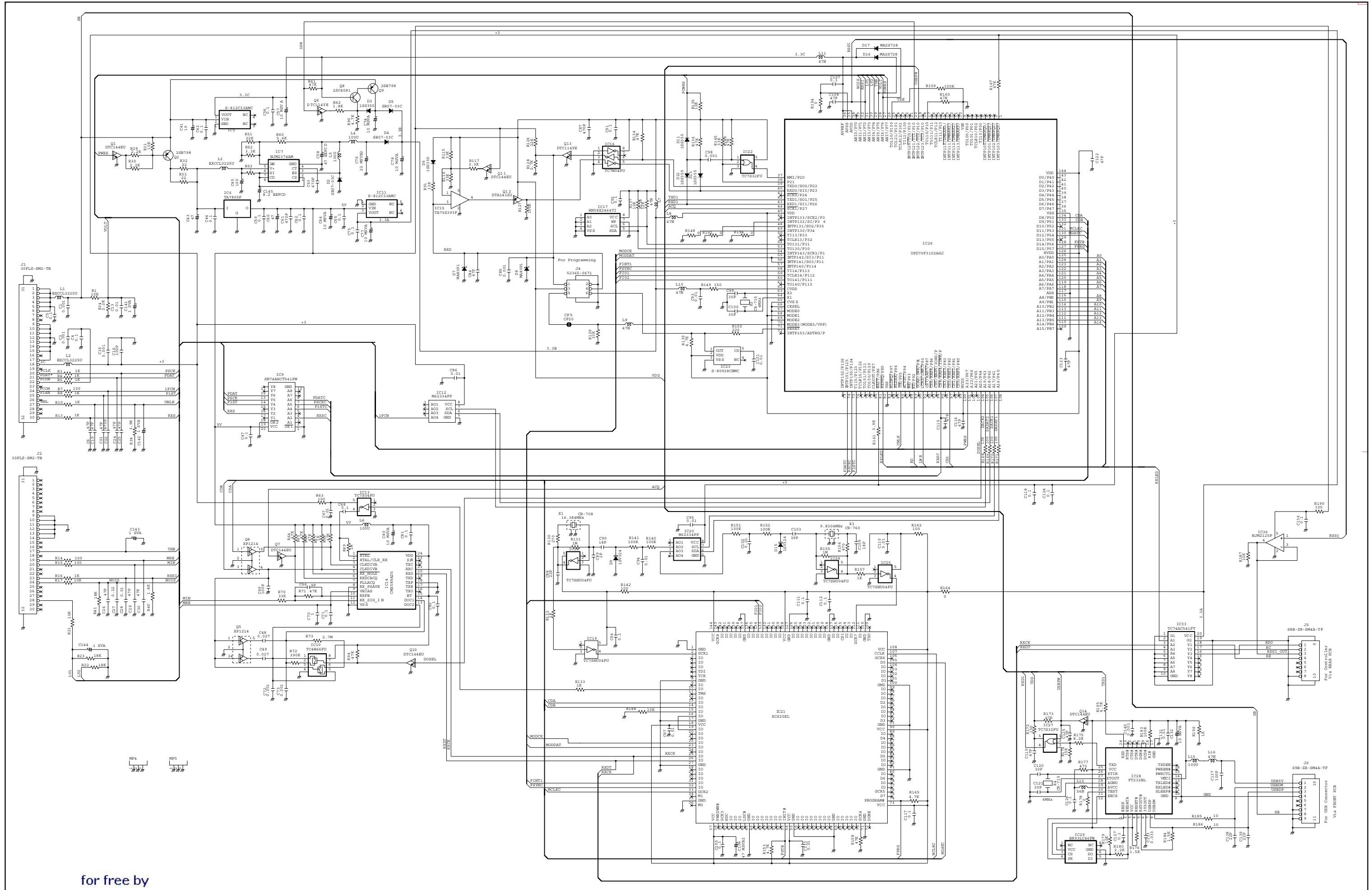
• MAIN-R

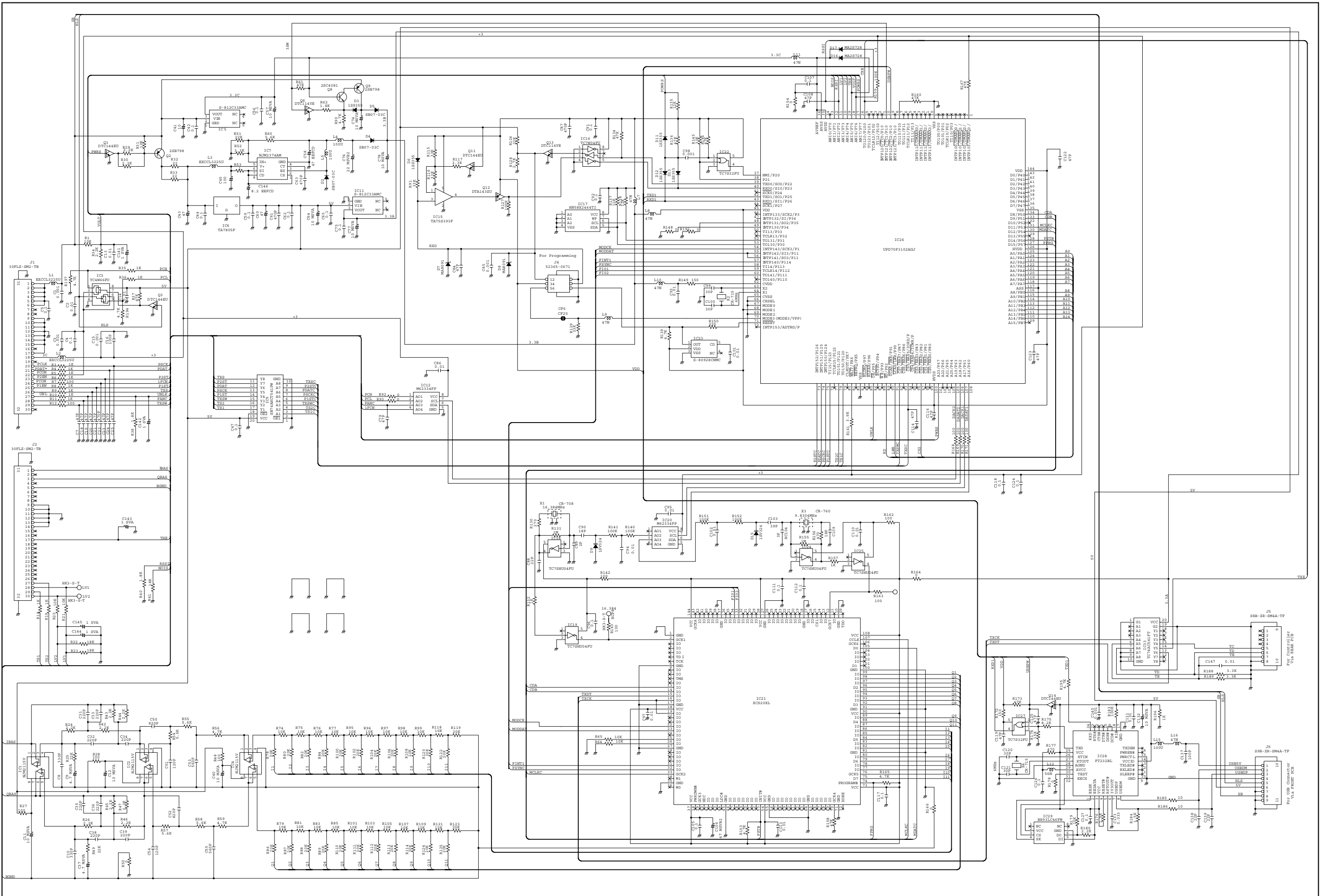


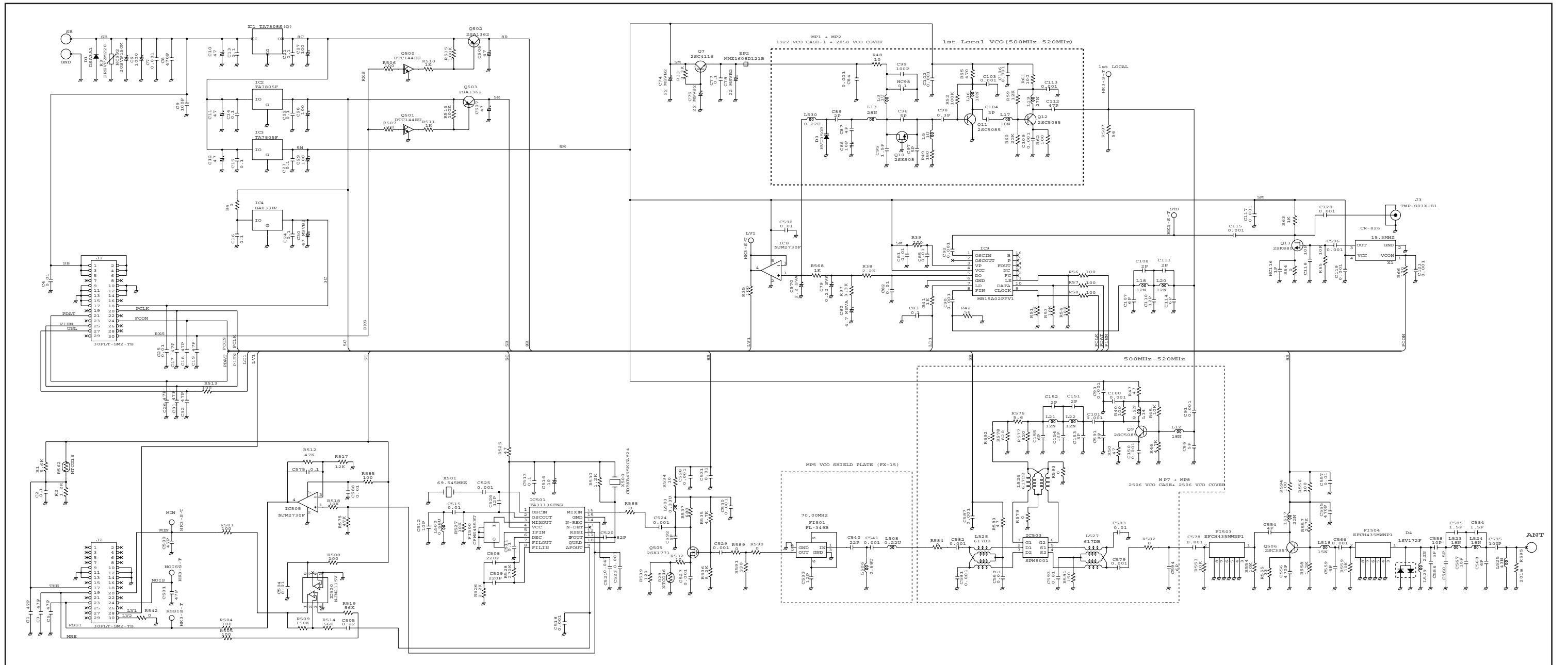
SECTION 8 BLOCK DIAGRAM

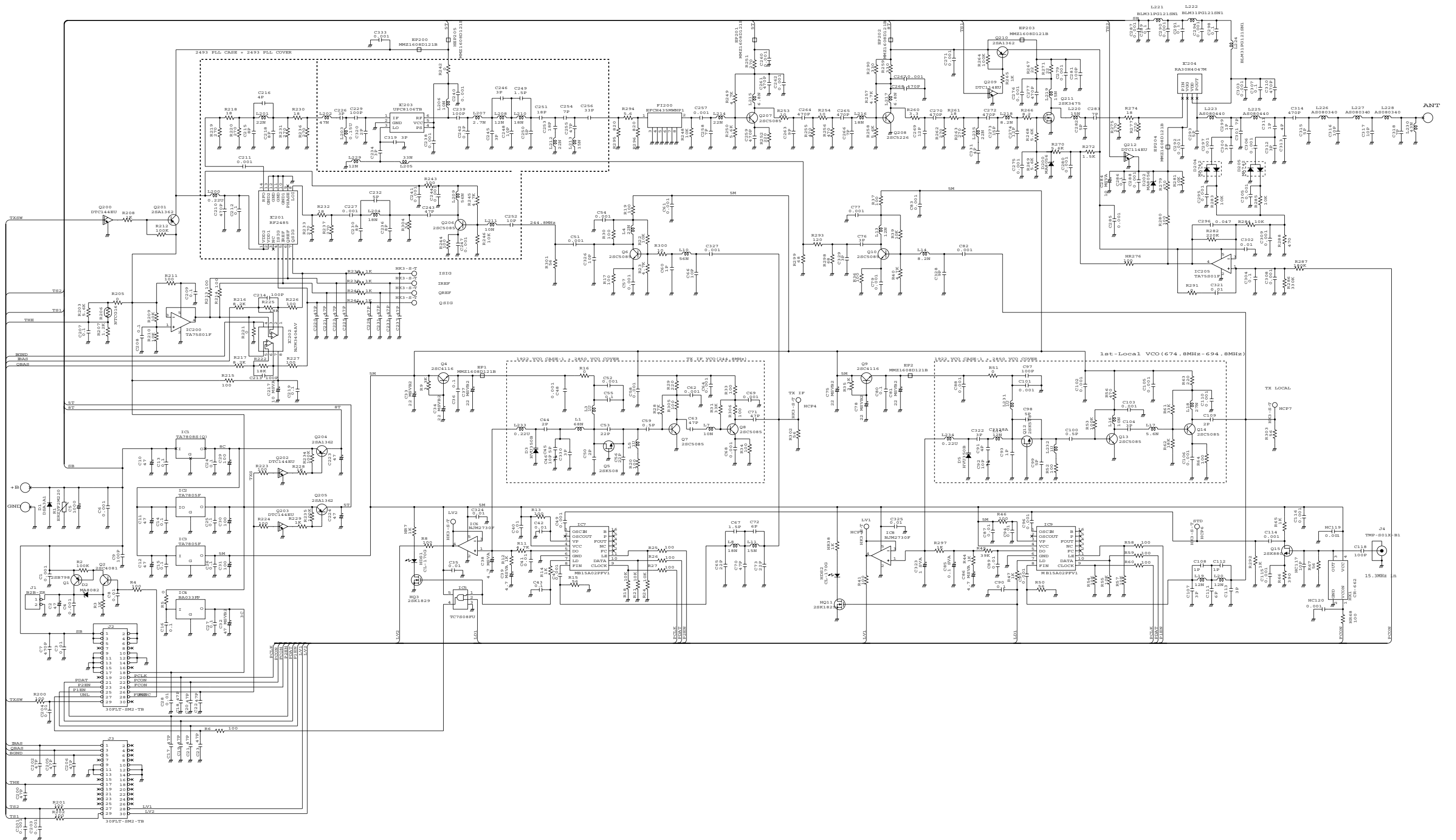


SECTION 9 VOLTAGE DIAGRAM









Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan
Phone : +81 (06) 6793 5302
Fax : +81 (06) 6793 0013
URL : <http://www.icom.co.jp/world/index.html>

Icom America Inc.

<Corporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone : +1 (425) 454-8155 Fax : +1 (425) 454-1509
URL : <http://www.icomamerica.com>
E-mail : sales@icomamerica.com
<Customer Service>
Phone : +1 (425) 454-7619

Icom Canada

Glenwood Centre #150-6165
Highway 17 Delta, B.C., V4K 5B8, Canada
Phone : +1 (604) 952-4266 Fax : +1 (604) 952-0090
URL : <http://www.icomcanada.com>
E-mail : info@icomcanada.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road, Clayton VIC 3168 Australia
Phone : +61 (03) 9549-7500 Fax : +61 (03) 9549-7505
URL : <http://www.icom.net.au>
E-mail : sales@icom.net.au

Icom New Zealand

146A Harris Road, East Tamaki,
Auckland, New Zealand
Phone : +64 (09) 274 4062 Fax : +64 (09) 274 4708
URL : <http://www.icom.co.nz>
E-mail : inquiries@icom.co.nz

Beijing Icom Ltd.

Room C01, 10th Floor, Long Silver Mansion, No. 88,
Yong Ding Road, Haidian District, Beijing, 100039, China
Phone : +86 (010) 5889 4250 Fax : +86 (010) 5889 4250
URL : <http://www.bjicom.com>
E-mail : bjicom@bjicom.com

Icom (Europe) GmbH

Communication Equipment
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone : +49 (0211) 346047 Fax : +49 (0211) 333639
URL : <http://www.icomeurope.com>
E-mail : info@icomeurope.com

Icom Spain S.L

Ctra. Rubi, 88, 08190, Sant Cugat del Valles, Barcelona, SPAIN
Phone : +34 (93) 590 26 70 Fax : +34 (93) 589 04 46
URL : <http://www.icomspain.com>
E-mail : icom@icomspain.com

Icom (UK) Ltd.

Unit 9, Sea St., Heme Bay, Kent, CT6 8LD, U.K.
Phone : +44 (01227) 741741 Fax : +44 (01227) 741742
URL : <http://www.icomuk.co.uk>
E-mail : info@icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine
1 Rue Brindejonc des Moulinais BP 5804
31505 Toulouse Cedex, France
Phone : +33 (5) 61 36 03 03 Fax : +33 (5) 61 36 03 00
URL : <http://www.icom-france.com>
E-mail : icom@icom-france.com

Asia Icom Inc.

6F No.68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C.
Phone : +886 (02) 2559 1899 Fax : +886 (02) 2559 1874
URL : <http://www.asia-icom.com>
E-mail : sales@asia-icom.com

Icom Polska

Sopot, 3 Maja 54 Poland
Phone : +48 (58) 550 7135 Fax : +48 (58) 551 0484
E-mail : icompolska@icompolska.com.pl

Count on us!

Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan

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