

Renesas Electronics Corporation

RAA306012 Control Board RL78/G1F Edition Rev1.02 BOM (RTK0EML240E00002BJ)

| No | Parts Name                               | Parts Designator   |   | Quantity |         | Description                 | Manufacturer      | Note            |
|----|--|--|---|----------|---------|-----------------------------|-------------------|-----------------|
|    | Item                                     | Mount  | Unmount   | Mount    | Unmount | Part Number (Product Spec)  |                   |                 |
| 1  | RL78/G1F                                 | U1   | -   | 1        | -       | R5F11BLEGFB                 | Renesas           |                 |
| 2  | 3.3VLOD                                  | U102   | -   | 1        | -       | ISL9005AIRNZ-T              | Renesas           |                 |
| 3  | Connector (1*2)SMD                       | JP101  | -   | 1        | -       | TSM-102-01-L-SV             | SAMTEC            |                 |
| 4  | Connector (1*3)SMD                       | JP102,JP103  | -   | 2        | -       | TSM-103-01-L-SV             | SAMTEC            |                 |
| 5  | Connector (1*4)                          | -  | CNC   | -        | 1       | SSW-104-017-T-S             | SAMTEC            |                 |
| 6  | Connector (2*20)                         | CNA,CNB  | -   | 2        | -       | HIF3FB-40DA-2.54DSA(71)     | HIROSE            |                 |
| 7  | Chip capacitor (22pf/>10V/0603m-1005m)   | -  | C4,C5   | -        | 2       | GRM0335C1E220JA01D(0603m)   | MURATA            |                 |
| 8  | Chip capacitor (1000pF/>10V/0603m-1005m) | -  | C20,C21,C22,C23,C24,<br>C25,C26,C27,C28   | -        | 9       | GRM0335C1E102JA01D(0603m)   | MURATA            |                 |
| 9  | Chip capacitor (0.01uF/>10V/0603m-1005m) | -  | C111  | -        | 1       | GRM033R61A103KA01D(0603m)   | MURATA            |                 |
| 10 | Chip capacitor (0.1uF/>10V/0603m-1005m)  | C1,C2  | C110  | 2        | 1       | GRM033R61E104KE14(0603m)    | MURATA            |                 |
| 11 | Chip capacitor (1uF/>10V/1005m-1608m)    | C3,C6,C109,C112  |   | 4        | -       | MCASL105SB5105KFNA01(1005m) | YUDEN             |                 |
|    |  |  |   |          |         | MCASL105SB5105KFNA1J(1005m) | YUDEN             | Alternate parts |
|    |  |  |   |          |         | MMASL105SB5105KFNA01(1005m) | YUDEN             | Alternate parts |
| 12 | Chip resistor(0Ω/1005m-1608m)            | R5,R6,R7,R8,R9,<br>R10,R11,R12,R13,R14,<br>R15,R16,R21,R25,R26,<br>R27,R28,R29,R30,R31,<br>R32,R33,R34,R35,R36,<br>R45,R46,R47,R48,R49,<br>R50,R51,R52,R53,R54,<br>R55,R56,R57,R58,R59,<br>R60,R61,R62,R63,R64,<br>R65,R66,R67,R68,R69,<br>R70,R71,R72,R73,R74,<br>R75,R76,R80,R81,R82,<br>R84,R88,R90,R91,R98,<br>R99 | R1,R2,R3,R4,R17,<br>R18,R19,R20,R22,R23,<br>R24,R37,R38,R39,R40,<br>R41,R42,R43,R44,R77,<br>R78,R79,R83,R86 | 66       | 24      | RK73Z1JTDD(1608m)           | KOA               |                 |
|    |  |  |   |          |         | RC0603JR-130RL              | YAGEO             | Alternate parts |
| 13 | Chip resistor(300Ω/1005m-1608m)          | R97  | -   | 1        | -       | RK73B1ETTP301J(1005m)       | KOA               |                 |
| 14 | Chip resistor(1kΩ/1005m-1608m)           | R93,R94  | R92   | 2        | 1       | RK73B1ETTP102J(1005m)       | KOA               |                 |
|    |  |  |   |          |         | RC0402JR-071KL(1005m)       | YAGEO             | Alternate parts |
| 15 | Chip resistor(10kΩ/1005m-1608m)          | C4,C5,R85,R87,R95,<br>R96  | -   | 6        | -       | RK73B1ETTP103J(1005m)       | KOA               |                 |
| 16 | Crystal oscillator                       | -  | CT1   | -        | 1       | CX8045GB08000H0HEQZ1        | KYOSERA           |                 |
| 17 | Push switch                              | S1   | -   | 1        | -       | SKRPABE010                  | ALPS              |                 |
| 18 | Diode (single)                           | D1,D101  | -   | 2        | -       | PMEG2005EH,115              | Nexperia USA Inc. |                 |
| 19 | Common mode choke (Power)                | -  | CMC1,CMC2   | -        | 2       | ACM4520-142-2P-T000         | TDK               |                 |

## Revision History

| Revision | Date        | Description      |
|----------|-------------|------------------|
| 1.00     | Oct.11.2023 | ·Initial release |
|          |             |                  |