

| No. | Reference           | Description     | Specification       | Parts Number                                | Manufacturer        | Qty                         | Note |                  |
|-----|---------------------|-----------------|---------------------|---|---------------------|-----------------------------|------|------------------|
| 1   | C1                  | -               | Ceramic Capacitor   | 1005, 0.47uF/50V                            | GRM155R61H474KE11D  | MURATA                      | 1    | -                |
| 2   | -                   | C2,C3           | Capacitor Lead type | -   | -                   | -                           | 0    | Unmounted        |
| 3   | C4,C5               | -               | Ceramic Capacitor   | 0603, 4pF, 25V                              | GRM0335C1E4R0CA01D  | MURATA                      | 2    | -                |
| 4   | C6,C8,C12,C13       | -               | Ceramic Capacitor   | 0603, 0.1uF, 16V                            | GRM033R61C104KE84D  | MURATA                      | 4    | -                |
| 5   | C7                  | -               | Ceramic Capacitor   | 1005, 10nF, 25V                             | GRM155R71E103KA01J  | MURATA                      | 1    | -                |
| 6   | C9                  | -               | Ceramic Capacitor   | 1608, 4.7uF, 16V                            | C1608X5R1C475K080AC | TDK                         | 1    | -                |
| 7   | C10,C11             | -               | Ceramic Capacitor   | 0603, 47pF, 50V                             | GRM0335C1H470JA01D  | MURATA                      | 2    | -                |
| 8   | C14,C15,C16         | -               | Ceramic Capacitor   | 1005,1uF, 16V                               | GRM155C81C105KE11D  | MURATA                      | 3    | -                |
| 9   | D1                  | -               | Diode               | Schottky,25V,1A                             | RB491DT146          | ROHM                        | 1    | -                |
| 10  | D2                  | -               | Diode               | 50V,1A                                      | GF1A-E3/67A         | VISHAY                      | 1    | -                |
| 11  | FL1                 | -               | Ferrite Bead        | 2012,120ohm@100MHz,+/-25%,3A                | BLM21PG121SN1       | MURATA                      | 1    | -                |
| 12  | GROVE               | -               | Grove Connector     | -   | SKU110990030        | SEED                        | 1    | -                |
| 13  | -                   | J1,J2,J3,J4     | Connector           | 12pin, 2.54mm pitch,DIP                     | FFC-12BMEP1         | HONDA                       | 0    | Unmounted        |
| 14  | J5,J7               | -               | Female-connector    | Female,1x8Pin,2.54mm pitch,DIP              | FH2543-08GT10       | MTCONN                      | 2    | -                |
| 15  | J6                  | -               | Female-connector    | Female,1x6Pin,2.54mm pitch,DIP              | FH2543-06GT10       | MTCONN                      | 1    | -                |
| 16  | J8                  | -               | Female-connector    | Female,1x10Pin,2.54mm pitch,DIP             | FH2543-10GT10       | MTCONN                      | 1    | -                |
| 17  | J9                  | -               | USB connector       | MicroUSB B,receptacle,reverse mount,USB 2.0 | ZX62R-B-5P(30)      | HIROSE                      | 1    | -                |
| 18  | -                   | J10             | Connector           | -   | 7614-6002PL         | 3M                          | 0    | Unmounted        |
| 19  | -                   | J11,J18         | 2-pin header        | -   | FFC-2AMEP1          | HONDA                       | 0    | Unmounted        |
| 20  | J15,J16             | -               | 2-pin header        | 2.54mm pitch, 5.8mm hight                   | XJ8B-0211           | Omron                       | 2    | -                |
| 21  | -                   | J12, J13, J14   | 3-pin header        | -   | FFC-3AMEP1          | HONDA                       | 0    | Unmounted        |
| 22  | J17                 | -               | 3-pin header        | 2.54mm pitch, 5.8mm hight                   | XJ8B-0311           | Omron                       | 1    | -                |
| 23  | LED1,LED2,LED3      | -               | LED                 | 1608,Green                                  | SML-D12P8WT86       | ROHM                        | 3    | -                |
| 24  | -                   | OSC1            | Crystal oscillator  | 20MHz                                       | CSTNE20M0V53x       | MURATA                      | 0    | Unmounted        |
| 25  | -                   | OSC2            | Crystal oscillator  | 20MHz                                       | CSTLS20M0X51x       | MURATA                      | 0    | Unmounted        |
| 26  | OSC3                | -               | Crystal oscillator  | 32.768kHz                                   | SSP-T7-FL 3.7pF     | SII                         | 1    | -                |
| 27  | PMOD1,PMOD2         | -               | Connector           | 2x6pin,2.54mm pitch,DIP                     | PPTC062LJBN-RC      | Sullins Connector Solutions | 2    | -                |
| 28  | R1,R12,R14,R16      | -               | Resistor            | 1005,10K,1/16W,1%                           | RK73H1ETTP1002F     | KOA                         | 4    | -                |
| 29  | -                   | R17,R18,R19,R20 | Resistor            | 1005,10K,1/16W,1%                           | RK73H1ETTP1002F     | KOA                         | 0    | Unmounted        |
| 30  | R2,R3,R4            | -               | Resistor            | 1005,680,1/16W,1%                           | RK73H1ETTP6800F     | KOA                         | 3    | -                |
| 31  | R5,R6               | -               | Resistor            | 1005,27,1/16W,1%                            | RK73H1ETTP27R0F     | KOA                         | 2    | -                |
| 32  | R7                  | -               | Resistor            | 1005,2K,1/16W,1%                            | RK73H1ETTP2001F     | KOA                         | 1    | -                |
| 33  | R8,R9,R10,R13       | -               | Resistor            | 1005,1K,1/16W,1%                            | RC-02W1001FT        | Fenghua                     | 4    | -                |
| 34  | R11                 | -               | Resistor            | 1005,0                                      | RK73Z1ETTP          | KOA                         | 1    | -                |
| 35  | R15                 | -               | Resistor            | 1005,100K,1/16W,1%                          | AF0402FR-07100KL    | YAGEO                       | 1    | -                |
| 36  | R21,R22,R24,R25,R26 | -               | Resistor            | 1005,560,1/16W,1%                           | RK73H1ETTP5600F     | KOA                         | 5    | -                |
| 37  | -                   | R23             | Resistor            | 1005,10K,1/16W,1%                           | ERA-2AEB103x        | Panasonic                   | 0    | Unmounted        |
| 38  | SW,RST              | -               | Switch              | tactile,12V,0.05A                           | SKQMBBE010          | ALPS                        | 2    | -                |
| 39  | -                   | TP1,TP3         | Test pin            | -   | LC-22-G-RED         | MAC8                        | 0    | Unmounted        |
| 40  | -                   | TP2             | Test pin            | -   | LC-22-G-BLACK       | MAC8                        | 0    | Unmounted        |
| 41  | U1                  | -               | MCU                 | 48pin, LQFP                                 | R7F102GGE2DFB       | RENESAS                     | 1    | -                |
| 42  | U2                  | -               | IC                  | USB to serial UART interface                | FT232RQ-REEL        | FTDI                        | 1    | -                |
| 43  | U3                  | -               | Logic IC            | Single, 3state buffer                       | 74LVC1G126SE-7      | DIODES                      | 1    | -                |
| 44  | U4                  | -               | LDO                 | 3.3V,250mA                                  | ISL9021AIRUNZ-T     | RENESAS                     | 1    | -                |
| 45  | (J16,J17)           | -               | Jumper              | 2.54mm pitch,6.5 hight                      | XJ8A-0241           | OMRON                       | 2    | J17 1-2pin Short |
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| REVISION HISTORY | RL78/G22 Fast Prototyping Board BOM List |
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| Rev  | Date      | Description |                      |
|------|-----------|-------------|----------------------|
|      |           | Page        | Summary              |
| 1.00 | 16-Nov-22 | -           | First Edition issued |
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