

[illegible]



AB-88MW3XX-V3 Bill of Material for RD-MW322

| RF Critical | Item Number | Quantity | Part Reference | Description | Manufacturer Part Number |
|-------------|-------------|----------|---|--|-------------------------------|
| -- | 1 | 1 | U4 | Stamp Module for 88MW322 | NXP RD-88MW322-QFN-1B-2A v1.0 |
| -- | 2 | 1 | U13 | IC REG LDO 1.5A ADJ SOIC-8 | Linear-Tech LT1963AES8 |
| -- | 3 | 1 | U11 | IC REG LDO LV 300mA ADJ SOT23-5 | MicroChip MCP1824T-ADJE/OT |
| -- | 4 | 2 | U6,U7 | IC SNGL BUFF 3-STATE 1.65V-5.5V SC70-5 | TI SN74LVC1G125DCK |
| -- | 5 | 1 | U5 | IC USB TO SERIAL UART DUAL 4.35V-5.25V LQFP-48L 0.5mm 7x7x1.6mm | FTDI FT2232D-REEL |
| -- | 6 | 1 | U10 | IC USB 2.0 DUAL ESD 5.5V MAX TSOP-6 2.9x1.5x1mm | NXP IP4220CZ6 |
| -- | 7 | 1 | U3 | IC USB DUAL PORT PWR SWT 2.7V-5.5V SOIC-8 | TI LM3526MX-L/NOPB |
| -- | 8 | 1 | Y1 | XTAL 6MHz +/-30ppm FUND 8.5pF 120ohm -40C/+85C SMD-2 12.5X4.8X3.8mm | TXC AT-6.000MAGB-T |
| -- | 9 | 1 | Y2 | XOSC 32.768 kHz 3.3V +/-25ppm 15pF -10C/+70C SMD 3.2x2.5x1.0mm | TXC 7XZ-32.768KBA-T |
| -- | 10 | 2 | Q1,Q2 | TRANS N-CHAN MOSFET 60V(DS) 380mA(ID) SOT23-3 | DIODES 2N7002K-7 |
| -- | 11 | 2 | R15,R34 | RES THICK FILM 100 ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-101-JNH |
| -- | 12 | 1 | R7 | RES THICK FILM 47K ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-473-JNH |
| -- | 13 | 7 | R1,R6,R38,R39,R40,R62,R66 | RES THICK FILM 330 ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-331-JNH |
| -- | 14 | 11 | R2,R3,R9,R16,R19,R20,R26,R29,R35,R37,R51 | RES THICK FILM 10K ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-103-JNH |
| -- | 15 | 1 | R95 | RES THICK FILM 4.02k ohm 1/16W 1% 0402 SMD | Cyntec PFR05S-4021-FNH |
| -- | 16 | 1 | R96 | RES THICK FILM 6.98K ohm 1/16W 1% 0402 SMD | Cyntec PFR05S-6981-FNH |
| -- | 17 | 1 | R76 | RES THICK FILM 20.5K ohm 1/16W 1% 0402 SMD | Cyntec PFR05S-2052-FNH |
| -- | 18 | 1 | R75 | RES THICK FILM 147K ohm 1/16W 1% 0402 SMD | Cyntec PFR05S-1473-FNH |
| -- | 19 | 21 | R4,R5,R14,R22,R24,R25,R32,R33,R36,R43,R44, R45,R59,R71,R73,R78,R80,R81,R84,R93,R94 | RES THICK FILM 0 ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-000-XNH |
| -- | 20 | 10 | R41,R42,R46,R47,R48,R49,R53,R54,R55,R56 | RES THICK FILM 33 ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-330-JNH |
| -- | 21 | 1 | R92 | RES THICK FILM 150 ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-151-JNH |
| -- | 22 | 1 | R50 | RES THICK FILM 470 ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-471-JNH |
| -- | 23 | 1 | R58 | RES THICK FILM 1K ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-102-JNH |
| -- | 24 | 1 | R52 | RES THICK FILM 1.5K ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-152-JNH |
| -- | 25 | 2 | R61,R89 | RES THICK FILM 1.8K ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-182-JNH |
| -- | 26 | 5 | R72,R74,R85,R86,R87 | RES THICK FILM 2.2K ohm 1/16W 5% 0402 SMD | Cyntec PFR05S-222-JNH |
| -- | 27 | 19 | C2,C3,C4,C5,C6,C7,C8,C9,C12,C14,C15,C20,C21,C 22,C26,C31,C33,C35,C36 | CAP CER 0.1uF 20% 16V X7R 0402 (0.5mm) | MURATA GRM155R71C104M |
| -- | 28 | 6 | C1,C10,C19,C23,C25,C29 | CAP CER 10uF 10% 10V X5R 0603 (0.8mm) | TDK C1608X5R1A106K080AC |
| -- | 29 | 2 | C11,C13 | CAP CER 12pF 5% 50V C0G 0402 (0.5mm) | MURATA GRM1555C1H120J |
| -- | 30 | 1 | C17 | CAP CER 0.033uF 10% 25V X7R 0402 (0.5mm) | MURATA GRM155R71E333K |
| -- | 31 | 2 | C16,C18 | CAP CER 4.7uF 20% 6.3V X5R 0603 (0.8mm) | MURATA GRM188R60J475M |
| -- | 32 | 1 | C32 | CAP TANT 10uF 10V 20% 1206 | ROHM TCA1A106M8R |
| -- | 33 | 1 | C34 | CAP TANT 22uF 10V 20% 1206 | ROHM TCA1A226M8R |
| -- | 34 | 10 | HD3,JP1,JP2,JP3,JP5,JP6,JP8,JP9,JP10,JP11 | HDR 1x2 MALE 0.025in SQ PINS, 100MIL TH | Samtec TSW-102-07-G-S |
| -- | 35 | 3 | JP4,JP7,JP12 | HDR 1x3 MALE 0.025in SQ PINS, 100MIL TH | Samtec TSW-103-07-G-S |
| -- | 36 | 2 | HD2,HD4 | HDR 2x16 MALE 0.5mm SQ PINS, 2mm GOLD TH | MOLEX 0877583216 |
| -- | 37 | 1 | HD1 | CONN HDR SHRD 2X5 MALE 1.27mm TH | CNC 3220-10-0100-00 |
| -- | 38 | 1 | J1 | CONN USB2.0 TYPE MICRO-AB OTG RCPT 5PIN RA HORZ SMD | FCI 10104111-0001LF |

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| -- | 39 | 1 | J2 | CONN PWR JACK 16VDC @2.5A MALE 2mm CENTER-PIN 3mm TH-TAB RA TH | CUI PJ-202A |
| -- | 40 | 1 | J3 | CONN USB MINI-B 5PIN RCPT RA HOZ 0.8mm SMD | Molex 54819-0572 |
| -- | 41 | 2 | TP1,TP5 | TP PC MULTI PURPOSE 0.125in BLK TH | KEystone 5011 |
| -- | 42 | 4 | SW1,SW2,SW4,SW5 | SWITCH SPST S-P-TRAVEL 0.25mm J-BENT 1.3NF 6.5x6.0x3.1mm | PANASONIC EVQ-Q2K03W |
| -- | 43 | 1 | S1 | SWITCH TACT SPST GULL WING 50mA 12V SMD2 10.2x3.5x5.0mm | E-Switch TL3302BF130QG |
| -- | 44 | 2 | D2,D3 | LED RED CLEAR SMD 1.6x0.8x0.8mm | LITE-ON LTST-C190CKT |
| -- | 45 | 3 | D1,D4,D5 | LED GREEN CLEAR SMD 1.6x0.8x0.8mm | LITE-ON LTST-C190KGKT |
| -- | 46 | 1 | D8 | LED AMBER CLEAR SMD 1.6x0.8x0.8mm | LITE-ON LTST-C190AKT |
| -- | 47 | 1 | D7 | LED YELLOW CLEAR SMD 1.6x0.8x0.55mm | LITE-ON LTST-C191KSKT |
| -- | 48 | 1 | D9 | LED GREEN DIFF SMD 3.2x1.5X1.1mm | CML CMD15-21VGD/TR8 |