

Bill of Materials

MIC23356 Eval Board

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| Quantity | Designator | Description_ | Manufacturer 1 | Manufacturer Part Number 1 | Supplier 1 | Supplier Part Number 1 |
|--|------------------------|---|--------------------------------------|-------------------------------------|----------------------|--------------------------------|
| 1 | C1 | CAP CER 1uF 16V 10% X7R SMD 0603 | Yageo | CC0603KRX7R7BB105 | Digi-Key | 311-1446-1-ND |
| 2 | C2, C11 | CAP CER 4.7uF 10V 10% X7R SMD 0805 | TDK Corporation | C2012X7R1A475K125AC | Digi-Key | 445-7591-1-ND |
| 1 | C3 | CAP CER 0.1uF 16V 10% X7R SMD 0402 | Murata | GRM155R71C104KA88D | Digi-Key | 490-3261-2-ND |
| 1 | C5 | CAP CER 47uF 10V 20% X7R SMD 1210 | Taiyo Yuden | LMK325B7476MM-TR | Digi-Key | 587-2783-2-ND |
| 1 | C6 | CAP CER 0.1uF 16V 10% X7R SMD 0603 | AVX | 0603YC104KAT2A | Digi-Key | 478-1239-1-ND |
| 1 | C8 | CAP ALU 470uF 16V 20% RAD P3.5D8H11.5 | Nichicon | UVZ1C471MPD | Digi-Key | 493-1286-ND |
| 1 | C9 | CAP CER 22uF 10V 20% X7S SMD 0805 | TDK Corporation | C2012X7S1A226M125AC | Digi-Key | 445-14560-1-ND |
| 4 | J1, J3, J12, J13 | CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT | FCI | 77311-118-02LF | Digi-Key | 609-4434-ND |
| 1 | J2 | CON HDR-2.54 Male 1x4 Tin 5.84MH TH VERT | FCI | 68002-404HLF | Digi-Key | 609-3305-ND |
| 4 | J4, J5, J15, J19 | CON TP PIN Tin TH | Harwin | H2121-01 | Digi-Key | 952-1440-ND |
| 2 | J6, J8 | CON HDR-2.54 Male 1x3 Tin 5.84MH TH VERT | Samtec | TSW-103-07-T-S | Digi-Key | SAM1035-03-ND |
| 1 | J7 | CON USB2.0 Micro-B Female SMD R/A | FCI | 10118193-0001LF | Digi-Key | 609-4616-1-ND |
| 2 | J14, J21 | MISC, TEST POINT MULTI PURPOSE MINI RED | Keystone | 5000 | Digi-Key | 36-5000-ND |
| 3 | J17, J18, J20 | MISC, TEST POINT MULTI PURPOSE MINI BLACK | Keystone | 5001 | Digi-Key | 36-5001-ND |
| 1 | L1 | INDUCTOR 350nH 3.3A 20% SMD L3.2W3.5H1.5 | Coilcraft | XEL3515-351 | Coilcraft | XEL3515-351 |
| 1 | R1 | RES TKF 49.9R 1% 1/10W SMD 0603 | Panasonic | ERJ-3EKF49R9V | Digi-Key | P49.9HCT-ND |
| 1 | R3 | RES TKF 1M 1% 1/10W SMD 0603 | Panasonic | ERJ-3EKF1004V | Digi-Key | P1.00MHCT-ND |
| 4 | R4, R5, R8, R11 | RES TKF 0R 1/10W SMD 0603 | Panasonic | ERJ-3GSY0R00V | Digi-Key | P0.0GTR-ND |
| 2 | R6, R9 | RES TKF 2k 1% 1/10W SMD 0603 | Panasonic | ERJ-3EKF2001V | Digi-Key | P2.00KHTR-ND |
| 1 | R7 | RES TKF 100k 1% 1/10W SMD 0603 | Panasonic | ERJ-3EKF1003V | Digi-Key | P100KHTR-ND |
| 1 | R12 | RES TKF 10R 1% 1/10W SMD 0603 | Panasonic | ERJ-3EKF10R0V | Digi-Key | P10.0HTR-ND |
| Microchip Parts listed below | | | | | | |
| 1 | U1 | MCHP ANALOG SWITCHER Buck 2.4V to 5.5V MIC23356YFT FTQFN-16 | Microchip Technology | MIC23356YFT | Microchip Technology | MIC23356YFT |
| 1 | U2 | MCHP INTERFACE USB I2C UART MCP2221A-I/ST TSSOP-14 | Microchip Technology | MCP2221A-I/ST | Microchip Technology | MCP2221A-I/ST |
| Mechanical Parts to be added in the package | | | | | | |
| 2 | JP1, JP2 | MECH HW JUMPER 2.54mm 1x2 Phosphor Bronze w/ Handle | JAMECO VALUEPRO | 2012JH-R | Jameco | 152671 |
| 4 | PAD1, PAD2, PAD3, PAD4 | MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK | 3M | SJ61A11 | Digi-Key | SJ5747-0-ND |
| PCB | | | | | | |
| 1 | PCB1 | Printed Circuit Board | | 04-10741-R1 | | |
| Do Not Populate Parts listed below | | | | | | |
| 0 | J9 | CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT | FCI | 77311-118-02LF | Digi-Key | 609-4434-ND |
| 0 | R10 | RES TKF 0R 1/10W SMD 0603 | Panasonic | ERJ-3GSY0R00V | Digi-Key | P0.0GTR-ND |