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| Uploaded BOM Data | | | Review Matched Parts | | | | | | |
|-------------------|--------------------|--------------------|--|-----|--------|----------|------------|--------|--|
| Top Designator | Comment | Footprint | Matched Part Detail | Qty | Source | Lib Type | Total Cost | Select | |
| C37,C38 | 220 pF 6V | Capacitor_SMD:C... | 0402B221K500NT 50V 220pF X7R ±10% 0402 Multil... | 4 | JLCPCB | Basic | \$0.0044 | | |
| C26,C27,C5... | 33 pF 6V C0G | Capacitor_SMD:C... | 0402CG330J500NT 50V 33pF C0G ±5% 0402 Multila... | 8 | JLCPCB | Basic | \$0.0080 | | |
| C56 | 47 nF 30V | Capacitor_SMD:C... | CL10B473KB8NNNC 50V 47nF X7R ±10% 0603 Multil... | 2 | JLCPCB | Basic | \$0.0076 | | |
| IC1 | RP2040_QFN56 | RP2040:QFN56_7M... | RP2040 ARM Cortex-M0 1@x4ch/12bit USB... | 2 | JLCPCB | Extended | \$2.1338 | | |
| D1,D2,D3 | Zener 3V3 | Diode_SMD:D_Min... | ZMM3V3-M 2uA@1V 85Ω Single 3.1V~3.5V 50... | 6 | JLCPCB | Basic | \$0.0660 | | |
| Y1 | 12MHz X322512MS... | Crystal:Crystal... | X322512MSB4SI 12MHz SMD Crystal Resonator 20... | 2 | JLCPCB | Basic | \$0.1666 | | |
| R14,R16,R2... | 1K | Capacitor_SMD:C... | 0402WGF1001TCE 62.5mW Thick Film Resistors 50... | 18 | JLCPCB | Basic | \$0.0090 | | |
| C35,C70,C7... | 22 uF 25V X7R | Capacitor_SMD:C... | CL31A226KAHNNNE 25V 22uF X5R ±10% 1206 Multil... | 18 | JLCPCB | Basic | \$0.9000 | | |
| C33,C36,C4... | 10 uF 35V X7R | Capacitor_SMD:C... | CL31A106KBHNNNE 50V 10uF X5R ±10% 1206 Multil... | 12 | JLCPCB | Basic | \$0.3552 | | |
| C28,C29,C3... | 10 nF 30V | Capacitor_SMD:C... | CL05B103KB5NNNC 50V 10nF X7R ±10% 0402 Multil... | 22 | JLCPCB | Basic | \$0.0198 | | |
| C5,C19,C20... | 1 uF 30V X7R | Capacitor_SMD:C... | CL10A105KB8NNNC 50V 1uF X5R ±10% 0603 Multila... | 12 | JLCPCB | Basic | \$0.0576 | | |
| C9,C47,C48 | 220 nF 6V | Capacitor_SMD:C... | CL05B224K05NNNC 16V 220nF X7R ±10% 0402 Multil... | 6 | JLCPCB | Basic | \$0.0300 | | |
| C10,C52,C5... | 4.7 uF 6V | Capacitor_SMD:C... | CL10A475K08NNNC 16V 4.7uF X5R ±10% 0603 Multil... | 8 | JLCPCB | Basic | \$0.0680 | | |
| R75,R76 | 0R | Capacitor_SMD:C... | 0603WAF0000T5E 100mW Thick Film Resistors 75V... | 4 | JLCPCB | Basic | \$0.0036 | | |
| R40,R44 | 10 | Capacitor_SMD:C... | 0402WGF100JTCE 62.5mW Thick Film Resistors 50... | 4 | JLCPCB | Basic | \$0.0020 | | |
| R17,R18,R7... | 27R | Capacitor_SMD:C... | 0402WGF270JTCE 62.5mW Thick Film Resistors 50... | 20 | JLCPCB | Extended | \$0.0100 | | |
| R12,R13,R1... | 330 | Capacitor_SMD:C... | 0402WGF3300TCE 62.5mW Thick Film Resistors 50... | 6 | JLCPCB | Basic | \$0.0030 | | |
| R4,R5,R10... | 10K | Capacitor_SMD:C... | 0402WGF1002TCE 62.5mW Thick Film Resistors 50... | 32 | JLCPCB | Basic | \$0.0192 | | |
| R8,R27,R57... | 200K | Capacitor_SMD:C... | 0402WGF2003TCE 62.5mW Thick Film Resistors 50... | 14 | JLCPCB | Basic | \$0.0070 | | |
| R52 | 110K | Capacitor_SMD:C... | 0603WAF1103T5E 100mW Thick Film Resistors 75V... | 2 | JLCPCB | Basic | \$0.0024 | | |
| R1,R2,R3,R... | 4K7 | Capacitor_SMD:C... | 0402WGF4701TCE 62.5mW Thick Film Resistors 50... | 22 | JLCPCB | Basic | \$0.0110 | | |
| R6,R20,R23... | 1M | Capacitor_SMD:C... | 0402WGF1004TCE 62.5mW Thick Film Resistors 50... | 10 | JLCPCB | Basic | \$0.0050 | | |
| D4,D5,D10,... | PMEG3050EP | Diode_SMD:D_SOD... | PMEG3050EP,115 30V 5A 360mV @ 5A SOD128 Schot... | 8 | JLCPCB | Extended | \$2.5784 | | |
| D6,D7,D9 | LED | LED_SMD:LED_060... | 19-217/GHC-YR1S2/3T 20mA 518nm Colorless transpare... | 6 | JLCPCB | Basic | \$0.1578 | | |
| R48 | 17k8 | Capacitor_SMD:C... | RMCF0402FT17K8 62.5mW Thick Film Resistors 50... | 20 | JLCPCB | Extended | \$0.0640 | | |
| U5 | W25Q16JVS | Package_SO:SOIC... | W25Q16JVSSIQ SOIC-8_208mil NOR FLASH ROHS | 2 | JLCPCB | Extended | \$0.7174 | | |
| U10,U19 | TPD4EUSB30 | Package_SON:USO... | TPD4EUSB30DQAR 8V 1A (8/20us) 5.5V (Max) 7V U... | 4 | JLCPCB | Extended | \$2.1952 | | |
| C24,C30,C3... | 10 uF 16V X7R | Capacitor_SMD:C... | CL10A106MA8NRNC 25V 10uF X5R ±20% 0603 Multil... | 8 | JLCPCB | Basic | \$0.1808 | | |
| J18 | XT60-M | PowerIC:AMASS_X... | XT60 - Power Connectors ROHS | 2 | JLCPCB | Extended | \$0.5396 | | |

| | | | | | | | | | |
|---------------|--------------------|--------------------|---|---|----|------------------------|----------|-----------|--|
| R41,R45 | 0.01 惟 3W | Resistor_SMD:R... | FMF25FJR010-LH 2W 10mΩ ±70ppm/°C ±1% 2512 Cur... C105366 | Q | 5 | JLCPCB | Extended | \$0.2250 | |
| U17 | INA219BxD | Package_SO:SOIC... | INA219AIDR SOIC-8_150mil Current-Sensing... C138706 | Q | 2 | JLCPCB | Extended | \$2.2656 | |
| U8,U9,U12 | TPH3R704PL | PowerIC:TRANS.T... | TPH3R704PL,L1Q 40V 92A 81W 3.7mΩ@10V,46A 2.4V... C141553 | Q | 6 | JLCPCB | Extended | \$5.1780 | |
| CONN1,CONN... | SM04B-SRSS-TB(L... | RP2040:JST_SH4 | SM04B-SRSS-TB(LF)(SN) 1x4P 1 SR/SZ 1mm 4 Copper Allo... C160404 | Q | 5 | JLCPCB | Extended | \$0.8615 | |
| J10 | Micro_SD_Card | Connector_Card:... | 472192001 Deck Clamshell SMD SD Card Co... C164170 | Q | 2 | JLCPCB | Extended | \$1.0210 | |
| J13 | USB_C_Receptacl... | Connector_USB:U... | TYPE-C-31-M-12 5A 1 16 Female Type-C SMD USB... C165948 | Q | 2 | JLCPCB | Extended | \$0.4384 | |
| U2 | BMM150 | Package_CSP:WLC... | BMM150 WLCSP-12 Hall Sensor ROHS C171681 | Q | 2 | JLCPCB | Extended | \$4.8040 | |
| SW1 | CK PCM12SMTR | Button_Switch_S... | PCM12SMTR SMD Slide Switches ROHS C221841 | Q | 2 | JLCPCB | Extended | \$0.8462 | |
| R46,R47 | 226K | Capacitor_SMD:C... | AC0402FR-07226KL 62.5mW Thick Film Resistors 50... C226354 | Q | 20 | JLCPCB | Extended | \$0.0240 | |
| R29,R54,R6... | 8660 | Capacitor_SMD:C... | AC0402FR-078K66L 62.5mW Thick Film Resistors 50... C227261 | Q | 20 | JLCPCB | Extended | \$0.0200 | |
| Q2,Q3 | DMP3007SCG | Package_SON:Dio... | DMP3007SCG-7 30V 50A 6.8mΩ@10V,11.5A 2.4W 3... C260899 | Q | 4 | JLCPCB | Extended | \$2.0176 | |
| C1,C2,C3,C... | 100 nF 16V | Capacitor_SMD:C... | CL05B104KB54PNC 50V 100nF X7R ±10% 0402 Multi... C307331 | Q | 46 | JLCPCB | Basic | \$0.2944 | |
| S1,S2 | TS-1187A-B-A-B | PowerIC:SW_TS-1... | TS-1187A-B-A-B No NO 50mA 5.1mm 100mΩ 100000 ... C318884 | Q | 4 | JLCPCB | Basic | \$0.0596 | |
| R31,R32,R6... | 1180 | Resistor_SMD:R... | RNCF0402BTE1K18 62.5mW Thin Film Resistor 50V ... C346633 | Q | 9 | JLCPCB | Extended | \$0.7263 | |
| R53 | 4.7 | Capacitor_SMD:C... | AECR0402F4R70T9 63mW Thick Film Resistors 50V ... C352412 | Q | 20 | JLCPCB | Extended | \$0.0360 | |
| C41,C42,C4... | 47 uF 25V X7R | Capacitor_SMD:C... | GRM31CR61E476ME44L 25V 47uF X5R ±20% 1206 Multil... C403725 | Q | 6 | JLCPCB | Extended | \$1.8948 | |
| U7,U11,U14... | TVS2200DRV | Package_SON:WSO... | TVS2200DRVR WSON-6 ESD Protection Devices... C523793 | Q | 10 | JLCPCB | Extended | \$24.4490 | |
| U1 | BMP390L/BMPXX | PowerIC:XDCR_BM... | BMP388 LGA-10 Pressure Sensors ROHS C779278 | Q | 2 | 1 My Parts 1 JLCPCB | Extended | \$2.3729 | |
| U13 | MAX77960 | PowerIC:MAX7796... | MAX77960EFV06+ FC2QFN-30(4x4) Power Manageme... C1020018 | Q | 2 | My Parts | Extended | 0 | |
| L1 | 3.3 uH DR127-3R... | PowerIC:INDM125... | DR127-3R3-R 10.5A 3.3uH ±20% 21.5A 5.67mΩ ... C2453799 | Q | 2 | My Parts | Extended | 0 | |
| U3 | BMI160/BMI270 | Package_LGA:Bos... | BMI270 LGA-14(2.5x3x0.5mm) Attitude ... C2836813 | Q | 2 | JLCPCB | Extended | \$2.9524 | |
| U6 | TPS65987 | PowerIC:TPS6598... | TPS65987DDHRSHR VQFN-56 USB ICs ROHS C2868843 | Q | 2 | JLCPCB | Extended | \$10.2764 | |
| F1,F2 | Fuse Block | Fuse:Fuseholder... | XF-508P-B Plugin Fuse Holders ROHS C2935468 | Q | 4 | JLCPCB | Extended | \$1.2396 | |
| U18 | MPM54304-0002 | PowerIC:MPM5430... | MPM54304GMN-0002 Buck Switching Regulator IC Po... C9900037420 | Q | 2 | My Parts | Extended | 0 | |

Please carefully check the packages of selected parts before proceeding.

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