





| Comment | Description | Designator | Footprint | LibRef Qu | antity |
|------------------------------|--|--|---------------------------------|-------------------------------|--------|
| 1042 | Battery Holder, 18650, SMD | BT1, BT2, BT3, BT4, BT5, BT6, BT7, BT8, BT9, BT10, BT11, BT12 | KEYSTONE_1042 | CONN-00077 | 1: |
| 0.10uF | CAP, 0.10uF, 10%, 50V, X7R, 0805 | C1, C2, C3, C4, C5, C6, C9, C10, C13, C16, C27, C28, C29, C39, C42, C43 | chip_0805 | CAP-00072 | 10 |
| 2.2uF | CAP, 2.2uF, ±20%, 100V, X7R, 0603 | C7, C11, C12, C14, C15, C17, C18, C19, C20, C22, C23, C24, C25, C26, C33, C35 | chip_1210 | CAP-00536 | 16 |
| 4700pF | CAP, 4700pF, 10%, 100V, X7R, 0805 | C8, C21 | chip_0805 | CAP-00032 | : |
| 1uF | CAP, 1uF, 10%, 50V, X7R, 0805 | C30, C31, C38 | chip_0805 | CAP-00109 | : |
| 4.7uF | CAP, 4.7uF, 10%, 25V, X7R, 0805 | C32, C36 | chip_0805 | CAP-00128 | : |
| 10000pF | CAP, 10000pF, 10%, 25V, X7R, 0805 | C34, C40 | chip_0805 | CAP-00045 | : |
| 6pF | CAP, 6pF, ±10%, 50V, COG, 0603 | C37, C41 | chip_0603 | CAP-00538 | : |
| 18pF | CAP, 18pF, ±1%, 50V, C0G, 0603 | C44, C45 | chip_0603 | CAP-00417 | |
| cap_single_np | CAP, 0.1uF, ±10%, | C46 | chip_0603 | CAP-00542 | |
| diode_0 | 16V, X7R, 0603 Dio, Silicon, 200mA, | D1, D8 | sod123_0 | DIO-00060 | |
| 16V | 1V, 100V, SOD-123 Dio, Zener, 16V | D2, D3, D4, D5 | sod523_0 | DIO-00082 | |
| | 300mW, SOD-523 Dio, Schottky Array, | ,,, | | | |
| V40PWM10C-M3/I | Dual, Common Cathode, 100V 20A, SLIM DPAK 1500 W Peak Power | D6 | DPAK_SLIM | DIO-00081 | |
| 1.5SMC36AT3G | Zener Transient Voltage Suppressor, Unidirectional, 2-Pin SMC, Pb-Free, Tape and Reel | D7 | ONSC-SMC-2-403- 03_V | CMP-1061-00497-1 | |
| SM05T1G | Transient Voltage Suppressor Diode Array, Dual Common Anode Diodes for ESD Protection, 3-Pin SOT- 23, Pb-Free, Tape and Reel | D9, D12 | ONSC-SOT-23-3-318- 08_V | CMP-1061-00666-1 | : |
| 2.2V | LED, Green, 0603, 20mA | D10, D11, D13, D14 | chip_0603_LED | DIO-00040 | |
| 2-1926730-5 | Backplane Header, Blades and Pins, Edge Mount Right Angle, 10 | J1 | TE_CONN_2-1926730- | CONN-00093 | |
| conn-fuse-holder_0 | Power 25 Signal Fuse Holder, 30A, 500V, LP-Mini 897, ATOF 257 | P1 | FUSE_HOLDER_KEYST ONE_3557-2 | CONN-00015 | |
| conn-2x1_0 | Terminal Block, 2 Pos, 10A, 5.08mm Pitch, SMD, Right-Angle, 16- | P2 | PHOENIX_SPT_SMD_5 .08MM_2x1 | CONN-00065 | |
| conn-2x1_0 | 24 AWG Header, 2x1, 0.1" | P3, P5 | HDDR_2x1_0 | CONN-00055 | |
| conn-5x2_0 | Header, 10-pin IDC, 2.54mm Pitch | P4 | CNC_TECH_3020-10- 0100-XX | CONN-00054 | |
| SUM110P08-11L-E3 | XSTR, MOSFET P- Channel, 80V 110A, D2PAK | Q1, Q2, Q4, Q5 | D2PAK-3_1 | XSTR-00050 | |
| NDS9407 | XSTR PFET, 3A, 60V, 2.5W, SOIC-8 | Q3 | SO-8 | XSTR-00036 | |
| 510 | RES SMD 510 OHM 1% 1/8W 0805 | R1, R2, R3, R4, R5, R6, R7 | chip_0805 | RES-00240 | |
| 10k | RES SMD 10K OHM 1% 1/8W 0805 | R8, R27, R33, R34 | chip_0805 | RES-00307 | |
| 1k | RES SMD 1K OHM 1% 1/8W 0805 | R9, R16, R26 | chip_0805 | RES-00361 | |
| 1M | RES SMD 1M OHM 1% 1/8W 0805 | R10, R12 | chip_0805 | RES-00363 | |
| 1K78 1% | 1K78 1W 1% 2512 (6432 Metric) SMD | R11 | RESC2512(6432)_L | CMP-1018-00536-1 | |
| 390k | RES SMD 390K OHM 1% 1/8W 0805 | R13 | chip_0805 | RES-00455 | |
| MOV_0 | Varistor, Ceramic, 47V 300A 2J, 1210 | R14 | chip_1210 | MISC-00057 | |
| 820k | RES SMD 820K OHM 1% 1/8W 0805 | R15 | chip_0805 | RES-00567 | |
| 100k | RES SMD 100K OHM | R17, R20 | chip_0805 | RES-00302 | |
| 0 | 1% 1/8W 0805 RES SMD 0 OHM | R18, R19, R22, R25 | chip_0805 | RES-00720 | |
| 200 | 1/8W 0805 Thick Film RES SMD 200 OHM 1% | R21. R24 | chip_0805 | RES-00120 | |
| | 1/8W 0805 RES, 0.001, 1%, 1W, | R21, R24 | ,- | RES-00002 | |
| 0.001 | 2512 | | chip_2512 RESC2013X50X30ML2 | RES-00002 CMP-2001-04091-1 | |
| CRCW08056K98FKEA | | R28 | 0T20 RESC2013X70X40ML2 | | |
| ERJ-6ENF6192V | RES SMD 470 OHM 1% | R29 | 0T20 | CMP-2001-00256-1 | |
| res_single | 1/4W 0603 RES SMD 40.2K OHM | R30, R31 | chip_0603 | RES-00236 | : |
| 40.2k | 1% 1/8W 0805 RES SMD 330 OHM 1% | R32 | chip_0805 | RES-00474 | |
| 330 | 1/8W 0805 | R35, R36, R37, R38 | chip_0805 | RES-00222 | |
| SW_1P1T_0 | Switch, SPST, Tactile, 32V 50mA | SW1 | KMR6 | MISC-00024 | |
| BQ77PL900 | Batt Manager, Li-Ion, 5-10 cells, bq77PL900 STM22 M2 LOED 49 | U1 U2 | SSOP-48_0 LQFP48_0 | PWREG-00024 | |
| STM32F103C8 osc_xtal_2p_0 | STM32 M3, LQFP-48 XTAL, 32.768kHz, 6pF, 20ppm | V2 Y1 | ABS25_OSC | UCTRL-00008 OSC-00003 | |
| | | 1 | 1 | | |