

| Designator | Quantity | Comment | Description | Footprint | LibRef |
|------------------------|----------|----------------------|---|----------------------|---------------|
| C1 | 1 | C1608X5R1E335K080AC | CAP, CERM, 3.3 uF, 25 V, +/- 10%, X5R, 0603 | 0603S | CMP-0007008-5 |
| C2 | 1 | C1005X5R1E224M050BC | CAP, CERM, 0.22 uF, 25 V, +/- 20%, X5R, 0402 | 0402S | CMP-0006277-2 |
| C3 | 1 | CGA6P3X7R1H475K250AB | CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210 | 1210_280 | CMP-0009162-2 |
| C4 | 1 | EMVA500ADA470MF80G | CAP, AL, 47 uF, 50 V, +/- 20%, SMD | CAPSMT_62_F80 | CMP-0011241-3 |
| C5 | 1 | UMK316BBJ106KL-T | CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, 1206 | 1206_190 | CMP-0086153-1 |
| C6 | 1 | C1005X5R1A475K050BC | CAP, CERM, 4.7 uF, 10 V, +/- 10%, X5R, 0402 | 0402_065 | CMP-0006268-2 |
| C7 | 1 | GRM216R61C105KA88D | CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0805 | 0805_HV | CMP-0008135-2 |
| C8, C12, C13, C18, C19 | 5 | EEE-FK1J220XP | CAP, AL, 22 uF, 63 V, +/- 20%, 1.2 ohm, AEC-Q200 Grade 2, SMD | SM_RADIAL_D8 | CMP-0011190-2 |
| C9 | 1 | C0603C106M9PACTU | CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0603 | 0603L | CMP-0006872-5 |
| C10 | 1 | C2012X7R1A106K125AC | CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805 | 0805_HV | CMP-0007863-2 |
| C11 | 1 | CGA2B3X7S2A103K050BB | CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402 | 0402S | CMP-0006333-2 |
| C14, C32 | 2 | GRM1555C1H120JA01D | CAP, CERM, 12 pF, 50 V, +/- 5%, COG/NPO, 0402 | 0402 | CMP-0006415-2 |
| C15, C21 | 2 | GRM188R61A475MAAJ | CAP, CERM, 4.7 uF, 10 V, +/- 20%, X5R, 0603 | 0603 | CMP-0007329-5 |
| C16, C17 | 2 | C1608X7S2A683K080AB | CAP, CERM, 0.068 uF, 100 V, +/- 10%, X7S, 0603 | 0603S | CMP-0007061-4 |
| C20 | 1 | 160R07X104KV4T | CAP, CERM, 0.1 uF, 16 V, +/- 10%, X5R, 0402 | 0402_065S | CMP-0006204-2 |
| C22 | 1 | GRM155R61E104KA87D | CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0402 | 0402S | CMP-0006607-2 |
| C23, C24 | 2 | GRM21BR61A226ME44L | CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0805 | 0805 | CMP-0008286-2 |
| C25 | 1 | GRM188R61H225KE11D | CAP, CERM, 2.2 uF, 50 V, +/- 10%, X5R, 0603 | 0603 | CMP-0007353-5 |
| C26 | 1 | GRM155R61E475ME15 | CAP, CERM, 4.7 uF, 25 V, +/- 20%, X5R, 0402 | 0402 | CMP-0006612-1 |
| C28 | 1 | EMK105BJ105KVHF | CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0402 | 0402 | CMP-0006347-1 |
| C33 | 1 | 0805YD105KAT2A | CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0805 | 0805_HV | CMP-0007676-2 |
| C35 | 1 | C0603C104K5RACTU | CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603 | 0603 | CMP-0006861-3 |
| D1 | 1 | DF1502S-T | Diode, Switching-Bridge, 200 V, 1.5 A, DF-S | DF-S | CMP-0029207-3 |
| D2 | 1 | MMSZ5242BS-7-F | Diode, Zener, 12 V, 200 mW, SOD-323 | SOD-323 | CMP-0005831-4 |
| D3 | 1 | LTST-C191KRKT | LED, Red, SMD | LTST-C191_Red | CMP-0002950-3 |
| D4 | 1 | SZ1SMA54AT3G | Diode, TVS, Uni, 54 V, 87.1 Vc, 400 W, 4.6 A, AEC-Q101, SMA | SMA | CMP-0085074-1 |
| D5 | 1 | SBR0560S1-7 | Diode, Schottky, 60 V, 0.5 A, SOD-123 | SOD-123 | CMP-0028951-1 |
| D6 | 1 | NSR0240V2T1G | Diode, Schottky, 40 V, 0.25 A, SOD-523 | SOD-523 | CMP-0028616-3 |
| D7 | 1 | LTST-C191TGKT | LED, Green, SMD | LTST-C191_Green | CMP-0002891-3 |
| J1 | 1 | ZX62WRD-B-5PC | Connector, Receptacle, Micro-USB Type B, R/A, Top Mount SMT | CONN_Hirose_ZX62WRD | CMP-0074920-1 |
| J2 | 1 | OSTTE020161 | Terminal Block, 2x1, 3.5mm, TH | On-Shore_OSTTE020161 | CMP-0074958-1 |
| J3, J4, J9 | 3 | 1725672 | Terminal Block, 4x1, 2.54 mm, Green, TH | Phoenix_1725672 | CMP-0055518-1 |
| J5, J6 | 2 | TSW-103-07-G-S | Header, 100mil, 3x1, Gold, TH | TSW-103-07-G-S | CMP-0075407-2 |
| J7, J8 | 2 | SSW-110-23-F-D | Connector, Receptacle, 100mil, 10x2, Gold plated, TH | CONN_SSW-110-23-F-D | CMP-0075442-1 |
| L1 | 1 | XGL5030-153MEC | 15 uH Shielded Inductor 4.5 A 77.1mOhm Max Nonstandard | FP-XGL5030-153MEC_SN | CMP-0096646-1 |
| L2 | 1 | LPS3015-222MLB | Inductor, Shielded Drum Core, Ferrite, 2.2 uH, 1.4 A, 0.11 ohm, SMD | LPS3015 | CMP-0060448-1 |
| L4 | 1 | LPS4018-103MRB | Inductor, Shielded Drum Core, Ferrite, 10 uH, 1.25 A, 0.18 ohm, SMD | LPS4018 | CMP-0060471-1 |
| Q1 | 1 | IRLML0060TRPBF | MOSFET, N-CH, 60 V, 2.7 A, SOT-23 | SOT-23 | CMP-0000847-1 |
| R1 | 1 | ERJ-6GEYJ122V | RES, 1.2 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805 | 0805 | CMP-0020633-3 |
| R2 | 1 | CRCW0402150KFKED | RES, 150 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402S | CMP-0026021-3 |
| R3 | 1 | CRCW0402453KFKED | RES, 453 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402S | CMP-0026385-2 |
| R4 | 1 | CRCW0402100KJNED | RES, 100 k, 5%, 0.063 W, 0402 | 0402S | CMP-0026823-1 |

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| R5, R32, R33, R36, R39 | 5 | CRCW0402000Z0ED | RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402S | CMP-0026822-3 |
| R6 | 1 | CRCW040216K9FKED | RES, 16.9 k, 1%, 0.063 W, 0402 | 0402 | CMP-0026042-2 |
| R7, R15 | 2 | CRCW040210K0FKED | RES, 10.0 k, 1%, 0.063 W, 0402, RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 | CMP-0025958-2, CMP-0025958-3 |
| R8 | 1 | PNM0402E5001BST1 | RES, 5.00 k, 0.1%, 0.05 W, 0402 | 0402 | CMP-0026813-1 |
| R9 | 1 | CRCW0402825KFKED | RES, 825 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 | CMP-0026572-2 |
| R10 | 1 | CRCW040226K7FKED | RES, 26.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 | CMP-0026208-2 |
| R11, R12 | 2 | WSL0603R0100FEA | RES, 0.01, 1%, 0.1 W, 0603 | WSL0603 | CMP-0023344-2 |
| R13 | 1 | RC0603FR-07787RL | RES, 787, 1%, 0.1 W, 0603 | 0603 | CMP-0023274-5 |
| R14 | 1 | RC0603FR-07590RL | RES, 590, 1%, 0.1 W, 0603 | 0603 | CMP-0023194-5 |
| R16 | 1 | CRCW040213K0FKED | RES, 13.0 k, 1%, 0.063 W, 0402 | 0402 | CMP-0026003-2 |
| R18 | 1 | CRCW04025K36FKED | RES, 5.36 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 | CMP-0026465-2 |
| R19 | 1 | CRCW0402249KFKED | RES, 249 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402S | CMP-0026193-2 |
| R20 | 1 | CRCW040254K9FKED | RES, 54.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 | CMP-0026449-2 |
| R21 | 1 | CRCW0402402KFKED | RES, 402 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 | CMP-0026365-2 |
| R22 | 1 | CRCW0402100KFKED | RES, 100 k, 1%, 0.063 W, 0402 | 0402S | CMP-0025950-2 |
| R23 | 1 | CRCW040224K9FKED | RES, 24.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 | CMP-0026196-2 |
| R24 | 1 | CRCW040230K1FKED | RES, 30.1 k, 1%, 0.063 W, 0402 | 0402 | CMP-0026284-1 |
| R25, R30, R34 | 3 | ERJ-6GEY0R00V | RES, 0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805 | 0805 | CMP-0020616-3 |
| R26, R28 | 2 | ERJ-3EKF1501V | RES, 1.50 k, 1%, 0.1 W, 0603 | 0603 | CMP-0022689-3 |
| R29 | 1 | CRCW04021R00FKED | RES, 1.00, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402S | CMP-0026129-2 |
| R31 | 1 | RC0603FR-0746K4L | RES, 46.4 k, 1%, 0.1 W, 0603 | 0603 | CMP-0023126-5 |
| R35 | 1 | ERJ-3GEY0R00V | RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 | CMP-0025874-4 |
| R37 | 1 | CRCW0402100KFKEDC | 100 kOhms ±1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Thick Film | FP-CRCW0402100KFKED | CMP-0092204-1 |
| R40 | 1 | CRCW040210R2FKED | RES, 10.2, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 | CMP-0025964-3 |
| S1 | 1 | MHSS1105 | Switch, Slide, SPDT, R/A, TH | SW_MHSS1105 | CMP-0002173-2 |
| TP1, TP3, TP4, TP7, TP9, | 6 | 5005 | Test Point, Compact, Red, TH | Keystone5005 | CMP-0055142-2 |
| TP2 | 1 | 5007 | Test Point, Compact, White, TH | Keystone5007 | CMP-0055144-2 |
| TP18, TP19 | 2 | 5006 | Test Point, Compact, Black, TH | Keystone5006 | CMP-0055143-2 |
| U1 | 1 | BQ24072TRGTR | 1.5 A USB-Friendly Li-Ion Battery Charger and Power-Path Management IC, 4.3 V, -40 to 85 degC, 16-pin C | RGT0016C | CMP-0034000-2 |
| U2 | 1 | LMR36520ADDA | SIMPLE SWITCHER® 4.2-V to 65-V, 2-A Synchronous Step-down Converter, DDA0008J (HSOIC-8) | DDA0008J | CMP-0860813-1 |
| U3 | 1 | TPS2116DRLR | 1.6 V to 5 V, 2.5-A Low IQ Power Mux With Manual and Automatic Switchover | DRL0008A-MFG | CMP-0088593-2 |
| U4 | 1 | TPS26400PWPR | 40-V, 2-A Industrial eFuse With Integrated Reverse Input Polarity Protection | PWP0016H-MFG | CMP-0089748-1 |
| U6 | 1 | TLV62568DRLR | 1-A High Efficiency Step-Down Converter in SOT Package, DRL0006A (SOT-OTHER-6) | DRL0006A | CMP-0073965-1 |
| U8 | 1 | TPD1E10B06DPYR | Single-Channel ESD in 0402 Package With 10pF Capacitance and 6V Breakdown, DPY0002A (X1SON-2) | DPY0002A | CMP-0043093-4 |
| U10 | 1 | INA2180A2DGK | Bidirectional, Low- and High-Side Measurement, Multichannel, Voltage Output, Current-Sense Amplifiers, | DGK0008A_N | CMP-0013303-2 |
| U11 | 1 | TPS92360DCKR | 38-V 1.2-A single channel LED backlight driver 5-SC70 -40 to 85 | DCK0005A-MFG | CMP-0093050-1 |

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