

PMP31422_RevB BOM

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|----------------|----------|------------|---------------------|----------------------------|--|---|
| C1, C2 | 2 | 0.47uF | 2220Y1K00474KETWS2 | Knowles Capacitors | CAP, CERM, 0.47 μ F, 1000 V, +/- 10%, X7R, AEC-Q200 Grade 1, 2220 | 2220 |
| C3 | 1 | 47 μ F | B43541B8476M080 | TDK | 47 μ F 600 V Aluminum Electrolytic Capacitors Radial, Can - Snap-In 2.47Ohm @ 100Hz 5000 Hrs @ 85°C | RADIAL |
| C4 | 1 | DNP | DNP | MuRata | DNP | 0805 |
| C5 | 1 | 0.1uF | R474I310050A1K | Kemet | CAP, Film, 0.1 μ F, X1 440 VAC, +/- 10%, AEC-Q200 Grade 1, TH | 18x11mm |
| C6 | 1 | 470uF | APSG160ELL471MH08S | Chem-Con | CAP, Aluminum Polymer, 470 uF, 16 V, +/- 20%, 0.016 ohm, TH | D8xL8mm |
| C7 | 1 | 470uF | 16SEPC470M+T | Panasonic | CAP, Aluminum Polymer, 470 uF, 16 V, +/- 20%, 0.01 ohm, TH | D10xL13mm |
| C8, C9 | 2 | 22uF | C3225X7R1C226K250AC | TDK | CAP, CERM, 22 uF, 16 V, +/- 10%, X7R, 1210 | 1210 |
| C10 | 1 | 10uF | C3216X7R1C106M160AC | TDK | CAP, CERM, 10 μ F, 16 V, +/- 20%, X7R, 1206 | 1206 |
| C11 | 1 | | | Würth Elektronik | WCAP-ATUL Aluminum Electrolytic Capacitor, Radial, THT, D6.3 x H11mm, 100 μ F, 35V | |
| C12 | 1 | 10uF | GMK316AB7106KL | Taiyo Yuden | CAP, CERM, 10 uF, 35 V, +/- 10%, X7R, 1206 | 1206 |
| C13, R18 | 2 | DNP | DNP | Kemet, Vishay | DNP | 0603 |
| C14 | 1 | 22pF | C0603C220J5GACTU | Kemet | CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| C15 | 1 | 0.01uF | GRM188R71H103KA01D | MuRata | CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| C16 | 1 | 1000pF | GRM188R71H102KA01D | MuRata | CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| C17 | 1 | 4.7uF | GRM31CR71H475KA12L | MuRata | CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1206 | 1206 |
| C18 | 1 | | C0603R104K5RAC | Kemet | CAP CER 0.1UF 50V X7R 0603 | 0603 |
| C19 | 1 | 1000pF | C901U102MYVDBA7317 | Kemet | CAP, CERM, 1000 pF, V, +/- 20%, Y5V, D7xT5mm | D7xT5mm |
| D2 | 1 | 800V | DF08SA | Vishay-Semiconductor | Diode, Switching-Bridge, 800 V, 1 A, DF-S | DF-S |
| D3 | 1 | 600V | MURS160-13-F | Diodes Inc. | Diode, Ultrafast, 600 V, 1 A, SMB | SMB |
| D4 | 1 | 100V | STPS8H100G-TR | STMicroelectronics | Diode, Schottky, 100 V, 8 A, DDPAK | DDPAK |
| D5, D6 | 2 | 100V | B1100-13-F | Diodes Inc. | Diode, Schottky, 100 V, 1 A, SMA | SMA |
| D7 | 1 | 150V | SMCJ150A-TP | Micro Commercial Component | Diode, TVS, Uni, 150 V, 243 Vc, SMC | SMC |
| F1 | 1 | | DNP | Littelfuse | Fuse, 2 A, 250VAC/VDC, TH | TR5 fuse 8.5mm DIA |
| L1 | 1 | 5mH | 744821150 | Würth Elektronik | Coupled inductor, 5 mH, 0.22 ohm, TH | 15 x 18 x 7.5mm |
| L2 | 1 | 140uH | 7447031 | Würth Elektronik | Inductor, Toroid, Powdered Iron, 140 uH, 1 A, 0.11 ohm, TH | D13.5xH7mm |
| Q1 | 1 | | IPSA70R2K0CE | Infineon | Trans MOSFET N-CH 700V 4A 3-Pin(3+Tab) TO-251 Tube | TO251-3 |
| R1, R2, R3, R4 | 4 | 2.49Meg | CRCW08052M49FKEA | Vishay-Dale | RES, 2.49 M, 1%, 0.125 W, 0805 | 0805 |
| R3 | 1 | DNP | TNPW0805100RBYEN | Vishay | | 0805 |
| R4 | 1 | 100 | CRCW1210100RFKEA | Vishay-Dale | RES, 100, 1%, 0.5 W, AEC-Q200 Grade 0, 1210 | 1210 |
| R6 | 1 | 10 | CRCW080510R0FKEA | Vishay-Dale | RES, 10.0, 1%, 0.125 W, AEC-Q200 Grade 0, 0805 | 0805 |
| R8, R12 | 2 | | RMCF0805ZT0R00 | Stackpole Electronics | 0 Ohms Jumper 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film | 0805 |
| R9 | 1 | 49.9 | CRCW060349R9FKEA | Vishay-Dale | RES, 49.9, 1%, 0.1 W, 0603 | 0603 |
| R10 | 1 | 30k | CRCW080530K0JNEA | Vishay-Dale | RES, 30 k, 5%, 0.125 W, 0805 | 0805 |
| R11 | 1 | 1.00k | CRCW06031K00FKEA | Vishay-Dale | RES, 1.00 k, 1%, 0.1 W, 0603 | 0603 |
| R13 | 1 | DNP | DNP | Used in BOM report | DNP | Used in PnP output and some BOM reports |
| R14 | 1 | 1.50k | CRCW06031K50FKEA | Vishay-Dale | RES, 1.50 k, 1%, 0.1 W, 0603 | 0603 |
| R15 | 1 | 10.0k | RCG060310K0FKEA | Vishay Draloric | RES, 10.0 k, 1%, 0.1 W, 0603 | 0603 |
| R16 | 1 | 1.00Meg | CRCW06031M00FKEA | Vishay-Dale | RES, 1.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R17, R19 | 2 | 0 | RMCF0603ZT0R00 | Stackpole Electronics Inc | RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R20 | 1 | 20.0k | CRCW060320K0FKEA | Vishay-Dale | RES, 20.0 k, 1%, 0.1 W, 0603 | 0603 |
| R21 | 1 | 9.6 | ERJ-6DQF9R6 | Panasonic | Res Thick Film 0805 9.6 Ohm 1% | 0805 |
| R22 | 1 | 2 | ERJ-6DQF2R0V | Panasonic | Res Thick Film 0805 2 Ohm 1% | 0805 |
| R23 | 1 | 115k | CRCW0603115KFKEA | Vishay-Dale | RES, 115 k, 1%, 0.1 W, 0603 | 0603 |

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|--------------------|----------|-------|---------------|-------------------------|--|---------------------------|
| T1 | 1 | | 750372567r00 | Würth | TRANSFORMER | PTH14 |
| TP1, TP2, TP3, TP5 | 4 | | 1503-2 | Keystone | Terminal, Turret, TH, Double | Keystone1503-2 |
| TP4, TP6, TP7, TP8 | 4 | | 5000 | Keystone Electronics | Test Point, Miniature, Red, TH | Red Miniature Testpoint |
| TP9 | 1 | | 5002 | Keystone | Test Point, Miniature, White, TH | White Miniature Testpoint |
| TP10 | 1 | | 5001 | Keystone | Test Point, Miniature, Black, TH | Black Miniature Testpoint |
| U1 | 1 | | UCC287508DBVR | Texas Instruments | Current-Mode Flyback Controller with Secondary-Side Regulation (SSR) for Off-Line Applications | SOT23-6 |
| U2 | 1 | | FOD817ASD | Fairchild Semiconductor | Optocoupler, 5 kV, 80-160% CTR, SMT | DIP-4L Gullwing |
| U3 | 1 | | TLV431AIDBVT | Texas Instruments | Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 40 to 85 degC, 5-pin SOT-23 (DBV), Green (RoHS & no Sb/Br) | DBV0005A |

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