

Variant: 001
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PMP411145 REV E1 Bill of Materials

| Item # | Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|--------|-------------|----------|---------|----------------------|--------------------------|--|------------------|
| 1 | C1 | 1 | 220nF | X2 0.22uF/224K/275V | DongGuan Chengxi | X2 Film Capacitor, THT, L10 x W6 x H12mm, 220nF, 275V | 10*12*6mm |
| 2 | C3 | 1 | 1000pF | GRM31BR72J102KW01L | MuRata | CAP, CERM, 1000 pF, 630 V, +/- 10%, X7R, 1206 | 1206 |
| 3 | C4 | 1 | 10uF | TMK212BBJ106KG-T | Taiyo Yuden | CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805 | 0805 |
| 4 | C6 | 1 | 100nF | CGA3E2X8R1E104K080AD | TDK Corporation | 0.1µF ±10% 25V Ceramic Capacitor X8R 0603 (1608 Metric) | 0603 |
| 5 | C8, C9, C64 | 3 | 33uF | KCMD2002G330MF | Yongming | Aluminum Electrolytic Capacitor, Radial, THT, D8 x H20mm, 33µF, 400V | D8*20mm |
| 6 | C13 | 1 | 220pF | GRM1885C2A221JA01D | MuRata | CAP, CERM, 220 pF, 100 V, +/- 5%, COG/NPO, 0603 | 0603 |
| 7 | C14 | 1 | 1uF | CGA3E1X7R1E105K080AC | TDK | CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| 8 | C15 | 1 | 10uF | GRM188R61E106KA73D | MuRata | CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0603 | 0603 |
| 9 | C16 | 1 | 330pF | GRM155R71H331KA01D | MuRata | CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0402 | 0402 |
| 10 | C17 | 1 | 1uF | C1608X7R1E105K080AB | TDK | CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| 11 | C18 | 1 | 0.018uF | GRM155R71H183KA12D | MuRata | CAP, CERM, 0.018 uF, 50 V, +/- 10%, X7R, 0402 | 0402 |
| 12 | C19, C22 | 2 | 0.1uF | C3216X7T2W104M160AA | TDK | CAP, CERM, 0.1 uF, 450 V, +/- 20%, X7T, 1206 | 1206 |
| 13 | C20 | 1 | 4700pF | GRM155R71H472KA01D | MuRata | CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0402 | 0402 |
| 14 | C21 | 1 | 100pF | 8.85012E+11 | Würth Elektronik | CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402 | 0402 |
| 15 | C24, C25 | 2 | 470pF | 8.85362E+11 | Würth Elektronik | WCAP-CSSA Multilayer Ceramic Chip Safety Capacitor, size 1808, X7R Class II, 470pF, 250VAC | |
| 16 | D1 | 1 | | Z4DGP406L-HF | Comchip | Bridge Rectifier Single Phase Standard 600 V Surface Mount Z4-D | SMT_8MM1_10MM5 |
| 17 | D3 | 1 | 1000V | MRA4007T3G | ON Semiconductor | Diode, Standard Recovery Rectifier, 1000 V, 1 A, AEC-Q101, SMA | SMA |
| 18 | D4, D5 | 2 | 600V | ES1JFL | ON Semiconductor | Diode, Switching, 600 V, 1 A, SOD-123 | SOD-123 |
| 19 | EC6, EC7 | 2 | 470uF | NPXC1001E471MJTM | Yongming | 25V/470uF D5.5*11mm | D5.5*11 |
| 20 | F1 | 1 | | RSTA 5 AMMO | Bel Fuse | 5 A 250 V AC 63 V DC Fuse Board Mount (Cartridge Style Excluded) Through Hole Radial, Box | RADIAL |
| 21 | L1 | 1 | 22uH | MCD-0608-220K-UL | Würth Elektronik | Inductor, Unshielded Drum Core, Ferrite, 22 uH, 1.7 A, 0.102 ohm, TH | D6 x 8.5mm |
| 22 | L2 | 1 | 22uH | 7.4482E+12 | Würth Electronics | 8*5mm CM choke 22uH | PTH_16MM0_8MM0 |
| 23 | L5 | 1 | 1mH | 7.4482E+12 | Würth Electronics | Common Mode Power Line Choke | PTH_16MM0_8MM0 |
| 24 | Q1 | 1 | 150V | BSC093N15NS5ATMA1 | Infineon Technologies | MOSFET, N-CH, 150 V, 87 A, PG-TDSON-8 | PG-TDSON-8 |
| 25 | R1 | 1 | 470k | CRCW0805470KJNEA | Vishay-Dale | RES, 470 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805 | 0805 |
| 26 | R3, R17 | 2 | 30 | RC1206FR-0730RL | Yageo America | RES, 30.0, 1%, 0.25 W, 1206 | 1206 |
| 27 | R4 | 1 | 300 | RC0603FR-07300RL | Yageo | RES, 300, 1%, 0.1 W, 0603 | 0603 |
| 28 | R5 | 1 | 4.7k | CRCW1206470KJNEA | Vishay-Dale | RES, 4.7 k, 5%, 0.25 W, 1206 | 1206 |
| 29 | R6 | 1 | 47.0k | CRCW060347K0FKEA | Vishay-Dale | RES, 47.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| 30 | R7, R8 | 2 | 28.7k | CRCW040228K7FKED | Vishay-Dale | RES, 28.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| 31 | R9, R12 | 2 | 0 | CRCW04020000Z0EDHP | Vishay Dale | RES Thick Film, 0Ω, 0.2W, 0402 | 0402 |
| 32 | R10 | 1 | 3.01k | CRCW04023K01FKED | Vishay-Dale | RES, 3.01 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| 33 | R11 | 1 | 232k | RC0603FR-07232KLD | Yageo America | RES, 232 k, 1%, 0.1 W, 0603 | 0603 |
| 34 | R13 | 1 | 150 | CRCW0402150RFKED | Vishay-Dale | RES, 150, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| 35 | R14 | 1 | 15.0k | CRCW040215K0FKED | Vishay-Dale | RES, 15.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| 36 | R15 | 1 | 4.70k | RC0402FR-0747KL | Yageo America | RES, 4.70 k, 1%, 0.0625 W, 0402 | 0402 |
| 37 | R19 | 1 | 33.0k | CRCW060333K0FKEA | Vishay-Dale | RES, 33.0 k, 1%, 0.1 W, 0603 | 0603 |
| 38 | R21 | 1 | 0 | CRCW02010000Z0ED | Vishay-Dale | RES, 0, 5%, 0.05 W, 0201 | 0201 |
| 39 | R42 | 1 | 75.0k | CRCW040275K0FKED | Vishay-Dale | RES, 75.0 k, 1%, 0.063 W, 0402 | 0402 |
| 40 | R43 | 1 | 5.23k | CRCW04025K23FKED | Vishay-Dale | RES, 5.23 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| 41 | R50 | 1 | 12 | CRCW060312R0JNEA | Vishay-Dale | RES, 12, 5%, 0.1 W, 0603 | 0603 |
| 42 | RT1 | 1 | 100k | NCP15WF104F03RC | MuRata | Thermistor NTC, 100k ohm, 1%, 0402 | 0402 |
| 43 | T1 | 1 | | ATQ23-14 | Fort Electronics | ATQ23_14 4_4 Pin | 23*14*18mm |
| 44 | U1 | 1 | | MP6908GJ-Z | Monolithic Power Systems | FAST TURN-OFF INTELLIGENT RECTIF | TSOT23-6 |
| 45 | U2 | 1 | | ATL431AIDBZR | Texas Instruments | 2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3) | DBZ0003A |
| 46 | U3 | 1 | | VOL618A-2T | Vishay-Semiconductor | Optocoupler, 5 kV, 63-125% CTR, SMT | 8x2x4mm |
| 47 | U8 | 1 | | UCG28826 | Texas Instruments | UCG28826 | VQFN12 |
| 48 | C222 | 0 | 100pF | 8.85012E+11 | Würth Elektronik | CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402 | 0402 |
| 49 | R2 | 0 | 0 | CRCW04020000Z0EDHP | Vishay Dale | RES Thick Film, 0Ω, 0.2W, 0402 | 0402 |
| 50 | R16 | 0 | 1 | CRCW04021R00JNED | Vishay-Dale | RES, 1.0, 5%, 0.063 W, 0402 | 0402 |

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