


PMP22899 REV C Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|------------|----------|--------|--------------------|----------------------------|--|------------------------------|
| PCB1 | 1 | | PMP22899 | Any | Printed Circuit Board | |
| C1 | 1 | 0.1uF | B32529C3104K | TDK | CAP, Film, 0.1 uF, 250 V, +/- 10%, TH | 4.5x9.5x7.3mm |
| C2 | 1 | 22uF | UKL1H220KEDANA | Nichicon | CAP, AL, 22 uF, 50 V, +/- 10%, TH | D6.3xL11mm |
| C3, C6 | 2 | 2.2uF | GRM31CR71H225KA88L | MuRata | CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206 | 1206 |
| C4 | 1 | 47uF | EEUED2E470S | Panasonic | CAP, AL, 47 uF, 250 V, +/- 20%, 0.380955 ohm, TH | 16x20 |
| C5 | 1 | 0.22uF | GRM188R71E224KA88D | MuRata | CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| C7 | 1 | 100pF | GRM1555C1H101JA01D | MuRata | CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| C8 | 1 | 470uF | UHW1V471MPD | Nichicon | CAP, AL, 470 uF, 35 V, +/- 20%, 0.03 ohm, TH | D10xL16mm |
| C9 | 1 | 1000pF | GRM188R71E102KA01D | MuRata | CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| C10 | 1 | 1uF | GRM188R71E105KA12D | MuRata | CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| C11 | 1 | 0.22uF | GRM188R71H224KAC4D | MuRata | CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| D1 | 1 | 400V | HD04-T | Diodes Inc. | Diode, Switching-Bridge, 400 V, 0.8 A, MiniDIP | MiniDIP |
| D2 | 1 | 100V | MMDL914-TP | Micro Commercial Component | Diode, Switching, 100 V, 0.2 A, SOD-323 | SOD-323 |
| D3 | 1 | 300V | LQA30T300 | Power Integrations | Diode, Schottky, 300 V, 30 A, TH | TO-220AC |
| D4 | 1 | 100V | 1N4148W-7-F | Diodes Inc. | Diode, Ultrafast, 100 V, 0.15 A, SOD-123 | SOD-123 |
| D5 | 1 | 24V | SMBJ24A-13-F | Diodes Inc. | Diode, TVS, Uni, 24 V, 38.9 Vc, SMB | SMB |
| D6 | 1 | 600V | ES1JTR | SMC Diode Solutions | Diode, Superfast Rectifier, 600 V, 1 A, SMA | SMA |
| J1 | 1 | | 691214110002 | Würth Elektronik | Terminal Block, 3.5mm, 2x1, Tin, TH | Receptacle, 3.5mm, 2x1, TH |
| L2 | 1 | 140uH | 7447031 | Würth Elektronik | Inductor, Toroid, Powdered Iron, 140 uH, 1 A, 0.11 ohm, TH | D13.5xH7mm |
| L3 | 1 | 470uH | 1130-471K-RC | Bourns | Inductor, Wirewound, Ferrite, 470 uH, 4 A, 0.187 ohm, TH | Dia 1100mil |
| Q1 | 1 | | IPN60R360P7SATMA1 | Infineon | MOSFET N-CHANNEL 600V 9A SOT223 | SOT223 |
| R1, R2 | 2 | 100k | CRCW2512100KJNEG | Vishay-Dale | RES, 100 k, 5%, 1 W, AEC-Q200 Grade 0, 2512 | 2512 |
| R3 | 1 | 10.0 | CRCW060310R0FKEA | Vishay-Dale | RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R4 | 1 | 100k | CRCW0603100KFKEA | Vishay-Dale | RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R5 | 1 | 0.62 | CSR1206FTR620 | Stackpole Electronics Inc | RES, 0.62, 1%, 0.5 W, 1206 | 1206 |
| R6 | 1 | 0 | CRCW12060000Z0EA | Vishay-Dale | RES, 0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206 | 1206 |
| R7 | 1 | 511 | CRCW0402511RFKED | Vishay-Dale | RES, 511, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| R8 | 1 | 49.9k | CRCW040249K9FKED | Vishay-Dale | RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| R9 | 1 | 22.1k | CRCW040222K1FKED | Vishay-Dale | RES, 22.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| R10 | 1 | 2.49k | CRCW04022K49FKED | Vishay-Dale | RES, 2.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| R11 | 1 | 10.0 | CRCW120610R0FKEA | Vishay-Dale | RES, 10.0, 1%, 0.25 W, AEC-Q200 Grade 0, 1206 | 1206 |
| R12 | 1 | 41.2k | CRCW040241K2FKED | Vishay-Dale | RES, 41.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| R13 | 1 | 5.1k | CRCW12065K10JNEA | Vishay-Dale | RES, 5.1 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206 | 1206 |
| TP1 | 1 | | 5125 | Keystone | Test Point, Multipurpose, Brown, TH | Brown Multipurpose Testpoint |
| TP2 | 1 | | 5127 | Keystone | Test Point, Multipurpose, Blue, TH | Blue Multipurpose Testpoint |
| TP3 | 1 | | 5000 | Keystone | Test Point, Miniature, Red, TH | Red Miniature Testpoint |
| TP4 | 1 | | 5001 | Keystone | Test Point, Miniature, Black, TH | Black Miniature Testpoint |
| U1 | 1 | | TL2842BDR-8 | Texas Instruments | High-Performance Current-Mode PWM Controllers with Current control, 100% Duty Cycle, -40 to 85 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br) | D0008A |
| XF1 | 1 | TR5 | 56000001009 | Littelfuse | Fuse Holder, TR5, TH | TR5 Fuse Holder |

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|-------------------|-----------------|--------------|-------------------|---------------------|--------------------|---------------------------|
| H1, H2, H3, H4 | 0 | | 4820 | Keystone | | 1 inch Nylon Hex Standoff |

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