

PMP30446 REV D Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|--|----------|----------------|----------------------|-----------------------|--|-----------------------------|
| C1, C11 | 2 | 1uF | 450MPK105J | Rubycon | CAP, Film, 1 µF, 450 V, +/- 5%, TH | 18x9.5mm |
| C2, C5 | 2 | 100uF | 450HXG100MEFCSN25X25 | Rubycon | CAP, AL, 100 µF, 450 V, +/- 20%, TH | D25xL25mm |
| C3, C4, C10, C15, C16, C22, C29, C33, C34, C39 | 10 | 1uF | C1608X5R1H105K080AB | TDK | CAP, CERM, 1 µF, 50 V, +/- 10%, X5R, 0603, CAP, CERM, 1 uF, 50 V, +/- 10%, X5R, 0603 | 603 |
| C6, C7, C12, C13 | 4 | 100uF | EEUED2E101S | Panasonic | CAP, AL, 100 µF, 250 V, +/- 20%, 0.243706 ohm, TH | 18x25 |
| C8, C9, C21, C26 | 4 | 47pF | GRM1885C1H470JA01D | MuRata | CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603, CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 603 |
| C14 | 1 | 270uF | 10SVP270M | Panasonic | CAP, Aluminum Polymer, 270 uF, 10 V, +/- 20%, 0.025 ohm, 10x10.3 SMD | 10x10.3 |
| C17, C25 | 2 | 220pF | GRM188R71H221KA01D | MuRata | CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603 | 603 |
| C18 | 1 | 0.01uF | B32652A0103K | TDK | CAP, Film, 0.01 uF, 1000 V, +/- 10%, TH | 2-Pin THD, 5 x 10.5 x 18 mm |
| C19 | 1 | 10uF | EMZA250ADA100MD61G | Chemi-Con | CAP, AL, 10 uF, 25 V, +/- 20%, 1.35 ohm, SMD | D61 |
| C20 | 1 | 0.01uF | C1608NP01H103J080AA | TDK | CAP, CERM, 0.01 µF, 50 V, +/- 5%, C0G/NP0, 0603 | 603 |
| C23, C24, C40 | 3 | 1000pF | 8.85012E+11 | Würth Elektronik | CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603 | 603 |
| C30 | 1 | 100uF | EMZA250ADA101MF80G | Chemi-Con | CAP, AL, 100 uF, 25 V, +/- 20%, 0.34 ohm, SMD | F80 |
| C100 | 1 | 0.1uF | 06035C104JAT2A | AVX | CAP, CERM, 0.1 µF, 50 V, +/- 5%, X7R, 0603 | 603 |
| C101 | 1 | 10uF | C0805C106K8PACTU | Kemet | CAP, CERM, 10 uF, 10 V, +/- 10%, X5R, 0805 | 805 |
| D1, D2 | 2 | VS-6EWL06FN-M3 | VS-6EWL06FN-M3 | Vishay Semiconductors | Diode, Ultrafast Rectifier, 600 V, 6 A, DPAK | DPAK |
| D3 | 1 | MBRA160T3G | MBRA160T3G | ON Semiconductor | Diode, Schottky, 60 V, 1 A, SMA | SMA |
| D4 | 1 | 5.6V | MMSZ5232B-7-F | Diodes Inc. | Diode, Zener, 5.6 V, 500 mW, SOD-123 | SOD-123 |
| D5 | 1 | 180V | SMAJ180A | Littelfuse | Diode, TVS, Uni, 180 V, 292 Vc, 400 W, 1.4 A, SMA | SMA |
| D6 | 1 | 400V | SMAJ400CA | Littelfuse | Diode, TVS, Bi, 400 V, SMA | SMA |
| D7 | 1 | US1M-13-F | US1M-13-F | Diodes Inc. | Diode, Ultrafast, 1000 V, 1 A, SMA | SMA |
| D8, D9 | 2 | MBR0540T1G | MBR0540T1G | ON Semiconductor | Diode, Schottky, 40 V, 0.5 A, SOD-123 | SOD-123 |
| D13 | 1 | BAS21H,115 | BAS21H,115 | Nexperia | Diode, Standard Recovery Rectifier, 200 V, 0.2 A, SOD-123F | SOD-123F |
| D14, D16, D22, D23 | 4 | BAS20HT1G | BAS20HT1G | ON Semiconductor | Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323 | SOD-323 |
| D17 | 1 | 15V | MMSZ4702T1G | ON Semiconductor | Diode, Zener, 15 V, 500 mW, SOD-123 | SOD-123 |
| D24, D29, D100 | 3 | BAT54HT1G | BAT54HT1G | ON Semiconductor | Diode, Schottky, 30 V, 0.2 A, SOD-323 | SOD-323 |
| D27 | 1 | 18V | MMSZ5248BS-7-F | Diodes Inc. | Diode, Zener, 18 V, 200 mW, SOD-323 | SOD-323 |
| H1, H2 | 2 | | 573300D00010G | Aavid | Heatsink, DDPak/TO-263, SMT | Heatsink, DDPak |
| J1, J2 | 2 | | ED120/3DS | On-Shore Technology | Terminal Block, 5.08 mm, 3x1, Brass, TH | 3x1 5.08 mm Terminal Block |
| L1, L3 | 2 | 15uH | RLB1112V4-150KL | Bourns | Inductor, Wirewound, Ferrite, 10 µH, 3.4 A, 0.045 ohm, TH | D11.5xL13.5mm |
| L2 | 1 | 750317489r01 | 750317489r01 | Würth Elektronik | Transformer, 160 uH, TH | 40.89x36.2mm |
| Q1, Q4 | 2 | IPL60R075CFD7 | IPL60R075CFD7 | Infineon Technologies | MOSFET, N-CH, 600 V, 33 A, PG-VSON-4 | PG-VSON-4 |
| Q2 | 1 | BSS84-7-F | BSS84-7-F | Diodes Inc. | MOSFET, P-CH, -50 V, -0.13 A, SOT-23 | SOT-23 |
| Q3 | 1 | IXTP06N120P | IXTP06N120P | IXYS | MOSFET, N-CH, 1200 V, 0.6 A, TO-220AB | TO-220AB |
| Q100 | 1 | 40 V | MMBT3904WT1G | ON Semiconductor | Transistor, NPN, 40 V, 0.2 A, SOT-323 | SOT-323 |
| R1 | 1 | 150k | RT0603DRE07150KL | Yageo America | RES, 150 k, 0.5%, 0.1 W, 0603 | 603 |
| R2, R6, R7, R9, R10 | 5 | 1.20Meg | RC1206FR-071M2L | Yageo America | RES, 1.20 M, 1%, 0.25 W, 1206 | 1206 |
| R3 | 1 | 1.10Meg | RC1206FR-071M1L | Yageo America | RES, 1.10 M, 1%, 0.25 W, 1206 | 1206 |
| R4 | 1 | 1.54Meg | CRCW06031M54FKEA | Vishay-Dale | RES, 1.54 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 603 |
| R5, R16 | 2 | 2.21 | RC0805FR-072R21L | Yageo America | RES, 2.21, 1%, 0.125 W, 0805 | 805 |

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| R8, R39, R72, R108 | 4 | 100k | RC0603FR-07100KL | Yageo America | RES, 100 k, 1%, 0.1 W, 0603 | 603 |
| R11 | 1 | 10.0k | RC1206FR-0710KL | Yageo America | RES, 10.0 k, 1%, 0.25 W, 1206 | 1206 |
| R12 | 1 | 100 | ERJ-6GEYJ101V | Panasonic | RES, 100, 5%, 0.125 W, AEC-Q200 Grade 0, 0805 | 805 |
| R13 | 1 | 0 | RC0805JR-070RL | Yageo America | RES, 0, 5%, 0.125 W, 0805 | 805 |
| R14, R15, R17, R18, R20, R21, R25, R26, R100, R101, R102, R103, R104, R105, R106, R107 | 16 | 1.00Meg | RC1206FR-071ML | Yageo America | RES, 1.00 M, 1%, 0.25 W, 1206 | 1206 |
| R19 | 1 | 3.74k | CRCW06033K74FKEA | Vishay-Dale | RES, 3.74 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 603 |
| R22, R23 | 2 | 0.36 | CSRN2010FKR360 | Stackpole Electronics Inc | RES, 0.36, 1%, 1 W, 2010 | 2010 |
| R24, R64, R69 | 3 | 2.21k | RC0603FR-072K21L | Yageo | RES, 2.21 k, 1%, 0.1 W, 0603 | 603 |
| R27 | 1 | 2.2 | CRCW06032R20JNEA | Vishay-Dale | RES, 2.2, 5%, 0.1 W, AEC-Q200 Grade 0, 0603 | 603 |
| R28 | 1 | 110k | RC0603FR-07110KL | Yageo | RES, 110 k, 1%, 0.1 W, 0603 | 603 |
| R29 | 1 | 750 | CRCW0603750RFKEA | Vishay-Dale | RES, 750, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 603 |
| R30 | 1 | 30.1k | RT0603BRD0730K1L | Yageo America | RES, 30.1 k, 0.1%, 0.1 W, 0603 | 603 |
| R31 | 1 | 42.2k | RC0603FR-0742K2L | Yageo | RES, 42.2 k, 1%, 0.1 W, 0603 | 603 |
| R32 | 1 | 3.3 | RC0805JR-073R3L | Yageo America | RES, 3.3, 5%, 0.125 W, 0805 | 805 |
| R33, R41 | 2 | 39.2k | RC0603FR-0739K2L | Yageo | RES, 39.2 k, 1%, 0.1 W, 0603 | 603 |
| R34, R35 | 2 | 22.0k | ERJ-3EKF2202V | Panasonic | RES, 22.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 603 |
| R36, R40, R55, R56 | 4 | 10.0k | CRCW060310K0FKEA | Vishay-Dale | RES, 10.0 k, 1%, 0.1 W, 0603 | 603 |
| R37 | 1 | 1.05Meg | CRCW06031M05FKEA | Vishay-Dale | RES, 1.05 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 603 |
| R38 | 1 | 6.04k | RC0603FR-076K04L | Yageo America | RES, 6.04 k, 1%, 0.1 W, 0603 | 603 |
| R63 | 1 | 1.0k | CRCW20101K00JNEF | Vishay-Dale | RES, 1.0 k, 5%, 0.75 W, AEC-Q200 Grade 0, 2010 | 2010 |
| R78 | 1 | 49.9 | CRCW060349R9FKEA | Vishay-Dale | RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 603 |
| T1 | 1 | 475uH | 760390014 | Wurth Elektronik | Transformer, 475uH, SMT | 10.05x4.19x6.73 mm |
| T2 | 1 | 2.6mH | TBD (TDK, EF16/8/5 N87) | TBD | Transformer, 2.6mH, TH | EF16 Vertical |
| TP3 | 1 | | 5001 | Keystone | Test Point, Miniature, Black, TH | Black Miniature Testpoint |
| TP4 | 1 | | 5002 | Keystone | Test Point, Miniature, White, TH | White Miniature Testpoint |
| TP5 | 1 | | 5000 | Keystone | Test Point, Miniature, Red, TH | Red Miniature Testpoint |
| U1 | 1 | UCC21220AD | UCC21220AD | Texas Instruments | 4-A, 6-A, 3.0-kVRMS Isolated Dual-Channel Gate Driver, D0016A (SOIC-16) | D0016A |
| U2 | 1 | UCC28710DR | UCC28710DR | Texas Instruments | Constant-Voltage, Constant-Current PWM Controller with Primary-Side Regulation, D0007A (SOIC-7) | D0007A |
| U3 | 1 | UCC28051DR | UCC28051DR | Texas Instruments | PFC Controller for low to medium power applications requiring compliance with IEC 61000-3-2, D0008A (SOIC-8) | D0008A |
| U5 | 1 | LM2904AVQD | LM2904AVQDRG4 | Texas Instruments | Dual Low Power Op Amp, D0008A | D0008A |
| U7 | 1 | SN6501DBVR | SN6501DBVR | Texas Instruments | Low-Noise 350 mA, 410 kHz Transformer Driver, DBV0005A (SOT-23-5) | DBV0005A |
| U8 | 1 | LM4040D10IDBZR | LM4040D10IDBZR | Texas Instruments | Precision Micropower Shunt Voltage Reference, 1% accuracy, 10 V, 15 ppm / degC, 15 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br) | DBZ0003A |

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