

## PMP23661 REV B Bill of Materials

| Designator   | Quantity | Value   | PartNumber         | Manufacturer                | Description  | PackageReference           |
|--|----------|---------|--------------------|-----------------------------|--|----------------------------|
| IPCB301  | 1        |         | PMP23661           | Any                         | Printed Circuit Board  |                            |
| C101, C102   | 2        | 47uF    | UUJ2D470MNU1MS     | Nichicon                    | CAP, AL, 47 uF, 200 V, +/- 20%, SMD                              | Cap, 1800x1650mm           |
| C103, C105   | 2        | 1uF     | 18122C105KAT2A     | AVX                         | CAP, CERM, 1 uF, 200 V, +/- 10%, X7R, 1812                       | 1812                       |
| C104, C202,<br>C203, C205,<br>C208, C209,<br>C211, C301,<br>C302, C308, C309 | 11       | 1uF     | 06033C105KAT2A     | KYOCERA AVX                 | CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603                        | 0603                       |
| C106, C206,<br>C212, C304,<br>C306, C311, C313                               | 7        | 2.2uF   | GRM188Z71C225KE43D | MuRata                      | CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603                      | 0603                       |
| C107, C108   | 2        | 0.1uF   | C1206C104K2RACTU   | KEMET                       | CAP, CERM, 0.1 uF, 200 V, +/- 10%, X7R, 1206                     | 1206                       |
| C109   | 1        | 5600pF  | GRM1885C1H562JA01D | MuRata                      | CAP, CERM, 5600 pF, 25 V, +/- 10%, C0G, 0603                     | 0603                       |
| C110   | 1        | 0.1uF   | GCM188R71H104KA57D | MuRata                      | CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603    | 0603                       |
| C111   | 1        | 0.47uF  | GCM188R71C474KA55D | MuRata                      | CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603   | 0603                       |
| C112   | 1        | 10pF    | GCM1885C2A100JA16D | MuRata                      | CAP, CERM, 10 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603 | 0603                       |
| C113   | 1        | 0.012uF | C0603C123K3RACTU   | KEMET                       | CAP, CERM, 0.012 uF, 25 V, +/- 10%, X7R, 0603                    | 0603                       |
| C114   | 1        | 470pF   | GRM188R72A471KA01D | MuRata                      | CAP, CERM, 470 pF, 100 V, +/- 10%, X7R, 0603                     | 0603                       |
| C115, C119,<br>C123, C127  | 4        | 1uF     | C0805C105K3RACTU   | Kemet                       | CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805                        | 0805                       |
| C116, C120,<br>C124, C128  | 4        | 10uF    | C1210C106K3RACTU   | Kemet                       | CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210                       | 1210                       |
| C117, C118,<br>C121, C122,<br>C125, C126,<br>C129, C130                      | 8        | 100uF   | T495E107K025ATE100 | Kemet                       | CAP, TA, 100 uF, 25 V, +/- 10%, 0.1 ohm, SMD                     | 7360-38                    |
| C201, C207   | 2        | 100pF   | 06035A101JA12A     | KYOCERA AVX                 | CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603                   | 0603                       |
| C204, C210,<br>C303, C310  | 4        | 0.1uF   | C1206C104K1RACTM   | KEMET                       | CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603    | 0603                       |
| C305, C312   | 2        | 0.1uF   | GRM319R72A104KA01D | MuRata                      | CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 1206                     | 1206                       |
| C307, C314   | 2        | 3300pF  | 12061C332KAT2A     | AVX                         | CAP, CERM, 3300 pF, 100 V, +/- 10%, X7R, 1206                    | 1206                       |
| D101, D102,<br>D103, D104  | 4        |         | BAT46GW RHG        | Taiwan Semiconductor Corpor | Diode Schottky 100V 250mA (DC) Surface Mount SOD-123             | SOD-123                    |
| D105, D106,<br>D107, D108  | 4        | 200V    | MBRS3200T3G        | ON Semiconductor            | Diode, Schottky, 200 V, 3 A, SMB                                 | SMB                        |
| D113, D114,<br>D301, D302  | 4        | 100V    | MBRS1100T3G        | ON Semiconductor            | Diode, Schottky, 100 V, 1 A, SMB                                 | SMB                        |
| D201, D203   | 2        |         | SS1H20LW           | Taiwan Semiconductor        | Diode Schottky 200 V 1A Surface Mount SOD-123W                   | SOD-123W                   |
| D202, D204   | 2        | 13V     | MMSZ5243B-7-F      | Diodes Inc.                 | Diode, Zener, 13 V, 500 mW, SOD-123                              | SOD-123                    |
| J101   | 1        |         | ED120/2DS          | On-Shore Technology         | Terminal Block, 5.08 mm, 2x1, Brass, TH                          | 2x1 5.08 mm Terminal Block |
| J102   | 1        |         | 61300611121        | Würth Elektronik            | Header, 2.54 mm, 6x1, Gold, TH                                   | Header, 2.54mm, 6x1, TH    |
| J103, J106   | 2        |         | 61300211121        | Würth Elektronik            | Header, 2.54 mm, 2x1, Gold, TH                                   | Header, 2.54mm, 2x1, TH    |

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|--|----------|--------|--------------------|-------------------|---|-------------------------|
| J104, J105   | 2        |        | CXS70-14-C         | Panduit           | Terminal 70A Lug  | LUG, 32.3x14.5x11.7     |
| J_BODE, J_EN   | 2        |        | 61300311121        | Würth Elektronik  | Header, 2.54 mm, 3x1, Gold, TH  | Header, 2.54mm, 3x1, TH |
| L101   | 1        | 117nH  | 1212VS-111MED      | Coilcraft         | Air Core Inductor, High Current, 117 nH, 44 A, 1212VS Series, ± 20%, 0.00143 ohm, 399 MHz | SMT_IND_11MM5_12MM0     |
| L102, L103   | 2        | 2uH    | 64192R00           | Payton Planar     | 2uH & 48.7Ap INDUCTOR   | PTH_IND_48MM0_33MM0     |
| Q103   | 1        |        | CSD18511KTT        | Texas Instruments | MOSFET N-Channel 40 V 194A (Ta) 188W (Ta) Surface Mount DDPAK/TO-263-3                    | D2PAK                   |
| Q201, Q202, Q203, Q204   | 4        |        | EPC2215            | EPC               | MOSFET N-Channel 200 V 32A (Ta) Surface Mount Die   | LGA6                    |
| Q301, Q302, Q303, Q304, Q305, Q306, Q307, Q308   | 8        |        | EPC2088            | EPC               | N-Channel 100 V 60A (Ta) Surface Mount Die  | LGA8                    |
| R101, R105, R124, R202, R203, R213, R214, R304, R305, R306, R310, R326, R330, R331, R335                               | 15       | 0      | CRCW06030000Z0EA   | Vishay-Dale       | RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603   | 0603                    |
| R102, R103, R107, R205, R206, R216, R217, R303, R328   | 9        | 49.9k  | CRCW060349K9FKEA   | Vishay-Dale       | RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603  | 0603                    |
| R104   | 1        | 1.69   | CRCW12061R69FKEA   | Vishay-Dale       | RES, 1.69, 1%, 0.25 W, AEC-Q200 Grade 0, 1206   | 1206                    |
| R108   | 1        | 147k   | CRCW0603147KFKEA   | Vishay-Dale       | RES, 147 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603   | 0603                    |
| R111   | 1        | 348k   | CRCW0603348KFKEA   | Vishay-Dale       | RES, 348 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603   | 0603                    |
| R117   | 1        | 1.0Meg | CRCW06031M00JNEA   | Vishay-Dale       | RES, 1.0 M, 5%, 0.1 W, AEC-Q200 Grade 0, 0603   | 0603                    |
| R121   | 1        | 68.1k  | CRCW060368K1FKEA   | Vishay-Dale       | RES, 68.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603  | 0603                    |
| R123   | 1        | 1.50k  | CRCW06031K50FKEA   | Vishay-Dale       | RES, 1.50 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603  | 0603                    |
| R126, R131, R204, R210, R211, R215, R221, R222, R302, R313, R320, R321, R322, R323, R327, R338, R345, R346, R347, R348 | 20       | 10.0k  | CRCW060310K0FKEA   | Vishay-Dale       | RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603  | 0603                    |
| R127   | 1        | 10     | CRCW060310R0FKEA   | Vishay-Dale       | RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603  | 0603                    |
| R128   | 1        | 20.5k  | CRCW060320K5FKEA   | Vishay-Dale       | RES, 20.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603  | 0603                    |
| R129   | 1        | 1.10k  | AC0603FR-071K1L    | YAGEO             | RES, 1.10 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603  | 0603                    |
| R130   | 1        | 0.05   | FCSL90R050FER      | Ohmite            | RES, 0.05, 1%, 4 W, 3518 WIDE   | 3518 WIDE               |
| R201, R212   | 2        | 100    | CRCW0603100RJNEA   | Vishay-Dale       | RES, 100, 5%, 0.1 W, AEC-Q200 Grade 0, 0603   | 0603                    |
| R207, R218   | 2        | 2      | MCT06030C2008FP500 | Vishay/Beyschlag  | RES, 2.00, 1%, 0.125 W, 0603  | 0603                    |

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|--|----------|-------|------------------|-----------------------------|--|---------------------------------|
| R208, R209, R219, R220, R312, R315, R316, R317, R318, R337, R340, R341, R342, R343 | 14       | 2.49  | CRCW06032R49FKEA | Vishay-Dale                 | RES, 2.49, 1%, 0.1 W, AEC-Q200 Grade 0, 0603                                 | 0603                            |
| R307, R308, R309, R311, R332, R333, R334, R336                                     | 8        | 4.7k  | CRGP2512F4K7     | TE                          | Res Thick Film 2512 4.7K Ohm 1% 2W ±100ppm/C Pad SMD T/R Automotive AEC-Q200 | 2512                            |
| R314, R319, R324, R325, R339, R344, R349, R350                                     | 8        | 33    | 352233RJT        | TE Connectivity             | Res Thick Film 2512 33 Ohm 1% 3W ±100ppm/C Pad SMD Automotive T/R            | 2512                            |
| T101   | 1        |       | 63554-R01        | Payton Planar               | Current Transformer 1:50   | SMT_XFRMR_24MM<br>0_20MM0       |
| T103   | 1        |       | 64191R00         | Payton Planar               | TITLE 1000W SMPS TRANSFORMER   | PTH_XFRMR_55MM0<br>48MM0        |
| TP101, TP104   | 2        |       | 5010             | Keystone Electronics        | Test Point, Multipurpose, Red, TH  | Red Multipurpose<br>Testpoint   |
| TP102, TP105   | 2        |       | 5011             | Keystone Electronics        | Test Point, Multipurpose, Black, TH  | Black Multipurpose<br>Testpoint |
| U101   | 1        |       | TPS7H5005MPWSEP  | Texas Instruments           | TPS7H5005MPWSEP  | TSSOP24                         |
| U201, U202, U301, U302   | 4        |       | TPS7H6005/EM     | Texas Instruments           | TPS7H6005/EM   | TSSOP56                         |
| D109, D112   | 0        |       | BAT46GW RHG      | Taiwan Semiconductor Corpor | Diode Schottky 100V 250mA (DC) Surface Mount SOD-123                         | SOD-123                         |
| D110, D111   | 0        | 200V  | MBRS3200T3G      | ON Semiconductor            | Diode, Schottky, 200 V, 3 A, SMB   | SMB                             |
| H301, H302, H303, H304, H305, H306   | 0        |       | 4820             | Keystone                    |  | 1 inch Nylon Hex<br>Standoff    |
| J201, J202, J203, J204, J205, J206, J207, J208                                     | 0        |       | SSQ-102-02-G-D   | Samtec                      | Conn Socket Strip SKT 4 POS 2.54mm Solder ST Top Entry Thru-Hole Bulk        | CONN_RCPT_4                     |
| Q101, Q102   | 0        | 60V   | 2N7002DW         | Fairchild Semiconductor     | MOSFET, 2-CH, N-CH, 60 V, 0.115 A, SOT-363                                   | SOT-363                         |
| R106   | 0        | 0     | RCL12250000Z0EG  | Vishay Draloric             | RES, 0, 5%, 2 W, 2512 WIDE   | 2512 WIDE                       |
| R109, R110, R118, R119, R301, R329   | 0        | 0     | CRCW06030000Z0EA | Vishay-Dale                 | RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603                                    | 0603                            |
| R112, R120   | 0        | 10.0k | CRCW060310K0FKEA | Vishay-Dale                 | RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603                               | 0603                            |
| R113   | 0        | 75.0k | CRCW060375K0FKEA | Vishay-Dale                 | RES, 75.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603                               | 0603                            |
| R114, R115, R116   | 0        | 49.9k | CRCW060349K9FKEA | Vishay-Dale                 | RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603                               | 0603                            |
| R122   | 0        | 1.69  | CRCW12061R69FKEA | Vishay-Dale                 | RES, 1.69, 1%, 0.25 W, AEC-Q200 Grade 0, 1206                                | 1206                            |
| R125   | 0        | 1.50k | CRCW06031K50FKEA | Vishay-Dale                 | RES, 1.50 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603                               | 0603                            |
| T102   | 0        |       | 63554-R01        | Payton Planar               | Current Transformer 1:50   | SMT_XFRMR_24MM<br>0_20MM0       |

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