

PMP23391 REV D Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|--|----------|--------|--------------------|----------------------------|--|------------------------------------|
| IPCB201 | 1 | | PMP23391 | Any | Printed Circuit Board | |
| C101, C115, C116, C201, C202, C204, C206, C207, C209, C211, C212 | 11 | 1uF | GRM188R71E105KA12D | MuRata | CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| C102, C103 | 2 | 22uF | T494X226K050AT | Kemet | CAP, TA, 22 uF, 50 V, +/- 10%, 0.5 ohm, SMD | 7343-43 |
| C104, C205, C210, C213, C214 | 5 | 2.2uF | GRM188Z71C225KE43 | MuRata | CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603 | 0603 |
| C105 | 1 | 5600pF | GRM188R71E562KA01D | MuRata | CAP, CERM, 5600 pF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| C106 | 1 | 0.1uF | GCM188R71E104KA57D | MuRata | CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| C107, C108 | 2 | 10uF | GCM32EL8EH106KA07L | MuRata | CAP, CERM, 10 uF, 50 V, +/- 10%, X8L, AEC-Q200 Grade 0, 1210 | 1210 |
| C109 | 1 | 0.47uF | GCM188R71C474KA55D | MuRata | CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| C110 | 1 | 10pF | GCM1885C2A100JA16D | MuRata | CAP, CERM, 10 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603 | 0603 |
| C111 | 1 | 6800pF | GRM188R71E682KA01D | MuRata | CAP, CERM, 6800 pF, 25 V, +/- 10%, X7R, 0603 | 0603 |
| C112 | 1 | 120pF | GRM1885C1H121JA01D | MuRata | CAP, CERM, 120 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| C113, C114, C305, C306 | 4 | 100pF | GRM1885C1H101JA01D | MuRata | CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 0603 |
| C117, C118 | 2 | 1200pF | GRM2165C2A122JA01D | MuRata | CAP, CERM, 1200 pF, 100 V, +/- 5%, C0G/NP0, 0805 | 0805 |
| C119, C120 | 2 | 10uF | GRM31CR71E106MA12L | MuRata | CAP, CERM, 10 uF, 25 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1206 | 1206 |
| C121, C123, C124, C125 | 4 | 100uF | TPSV107K025R0100 | AVX | CAP, TA, 100 uF, 25 V, +/- 10%, 0.1 ohm, SMD | 7361-38 |
| C122 | 1 | 0.1uF | GRM319R72A104KA01D | MuRata | CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 1206 | 1206 |
| C203, C208 | 2 | 0.1uF | C0603C104K5RACAUTO | Kemet | CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603 | 0603 |
| C301, C302, C303, C304 | 4 | 4.7uF | GRM21BR71E475KA73L | MuRata | CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 0805 | 0805 |
| D101, D102, D103, D104 | 4 | | BAT46GWJ | Nexperia | Diode Schottky 100V 250mA (DC) Surface Mount SOD-123 | SOD-123 |
| D105, D108, D111, D112 | 4 | 40V | PMEG4030ER,115 | Nexperia | Diode, Schottky, 40 V, 3 A, AEC-Q101, SOD-123W | SOD-123W |
| D106, D107, D109, D110 | 4 | 100V | MBRS1100T3G | ON Semiconductor | Diode, Schottky, 100 V, 1 A, SMB | SMB |
| D113, D114 | 2 | 100V | 1N4148W-TP | Micro Commercial Component | Diode, Switching, 100 V, 0.15 A, SOD-123 | SOD-123 |
| 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 |
| H201, H202, H203, H204 | 4 | | 4824 | Keystone | | HEX STANDOFF 6-32 NYLON 1-1/2 inch |
| J101, J105 | 2 | | OSTT7020150 | On-Shore Technology | Terminal Block, 6.35mm, 2x1, TH | On-Shore_OSTT7020150 |
| J102 | 1 | | 61300611121 | Würth Elektronik | Header, 2.54 mm, 6x1, Gold, TH | Header, 2.54mm, 6x1, TH |

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| J103, J106 | 2 | | 61300311121 | Würth Elektronik | Header, 2.54 mm, 3x1, Gold, TH | Header, 2.54mm, 3x1, TH |
| J104 | 1 | | 61300211121 | Würth Elektronik | Header, 2.54 mm, 2x1, Gold, TH | Header, 2.54mm, 2x1, TH |
| L101 | 1 | 1.3uH | 7443556130 | Würth Elektronik | Inductor, Shielded Drum Core, WE-Superflux200, 1.3 uH, 34.5 A, 0.0009 ohm, SMD | 18.3x8.9x18.2mm |
| L102, L103 | 2 | 22uH | LPD4012-223MRB | Coilcraft | Coupled inductor, 22 uH, 0.7 A, 1.63 ohm, TH | 3.9x1.1x3.9 mm |
| L301 | 1 | 110nH | 1212VS-111MEB | Coilcraft | Inductor, Unshielded, Air core, 110 nH, 44 A, 0.0015 ohm, SMD | SMD 13.46x8.0x12.95mm |
| Q101, Q102, Q103, Q104, Q105, Q106 | 6 | | EPC7018GC | EPC Space | MOSFET N-Channel 100 V 80A (Tc) Surface Mount 5-SMD | FSMD-G |
| Q107, Q108 | 2 | 50V | BSS138 | Fairchild Semiconductor | MOSFET, N-CH, 50 V, 0.22 A, SOT-23 | SOT-23 |
| Q109, Q110 | 2 | 60 V | MMBT2907A | Fairchild Semiconductor | Transistor, PNP, 60 V, 0.8 A, SOT-23 | SOT-23 |
| R101 | 1 | 147k | CRCW0603147KFKEA | Vishay-Dale | RES, 147 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R102 | 1 | 75.0k | CRCW060375K0FKEA | Vishay-Dale | RES, 75.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R103 | 1 | 1.69 | CRCW12061R69FKEA | Vishay-Dale | RES, 1.69, 1%, 0.25 W, AEC-Q200 Grade 0, 1206 | 1206 |
| R104, R230 | 2 | 49.9k | CRCW060349K9FKEA | Vishay-Dale | RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R105 | 1 | 205k | RC0603FR-07205KL | Yageo | RES, 205 k, 1%, 0.1 W, 0603 | 0603 |
| R106 | 1 | 1.0Meg | CRCW06031M00JNEA | Vishay-Dale | RES, 1.0 M, 5%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R107, R109, R201, R202, R214, R216, R227, R229 | 8 | 0 | CRCW06030000Z0EA | Vishay-Dale | RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R110 | 1 | 34.8k | CRCW060334K8FKEA | Vishay-Dale | RES, 34.8 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R111 | 1 | 1.50k | CRCW06031K50FKEA | Vishay-Dale | RES, 1.50 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R112 | 1 | 30.1k | CRCW060330K1FKEA | Vishay-Dale | RES, 30.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R113, R114, R204, R217 | 4 | 100 | CRCW0603100RJNEA | Vishay-Dale | RES, 100, 5%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R115, R116 | 2 | 0 | RC0805JR-070RL | Yageo America | RES, 0, 5%, 0.125 W, 0805 | 0805 |
| R117, R118, R119, R120 | 4 | 33 | CRCW251233R0JNEG | Vishay-Dale | RES, 33, 5%, 1 W, AEC-Q200 Grade 0, 2512 | 2512 |
| R121, R301 | 2 | 10k | CRM2512-FX-1002ELF | Bourns | 10 kOhms ±1% 2W Chip Resistor 2512 (6432 Metric) Current Sense Thick Film | 2512 |
| R122, R123, R206, R212, R213, R219, R225, R226, R228, R235, R236 | 11 | 10.0k | CRCW060310K0FKEA | Vishay-Dale | RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R124 | 1 | 10 | CRCW060310R0FKEA | Vishay-Dale | RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R125 | 1 | 115k | CRCW0603115KFKEA | Vishay-Dale | RES, 115 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R126 | 1 | 6.19k | CRCW06036K19FKEA | Vishay-Dale | RES, 6.19 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R203, R205, R215, R218 | 4 | 100k | CRCW0603100KFKEA | Vishay-Dale | RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| R207, R220 | 2 | 2 | MCT06030C2008FP500 | Vishay/Beyschlag | RES, 2.00, 1%, 0.125 W, 0603 | 0603 |
| R208, R209, R210, R211, R221, R222, R223, R224, R231, R232, R233, R234 | 12 | 2.49 | CRCW06032R49FKEA | Vishay-Dale | RES, 2.49, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |

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|------------------|----------|-------|-----------------|----------------------|---|---------------------------------|
| T102 | 1 | | 63554-R01 | Payton Planar | Current Transformer 1:50 | SMT_XFRMR_24MM 0_20MM0 |
| T103 | 1 | | CP-D1549-BZ | Coilcraft | Transformer Vin-22-36V/500KHz/Full-Bridge, Vo=12V/26A Isolation=1500V, T/R=3:2 | SMT_XFRMR_29MM 46_26MM67 |
| TP101, TP103 | 2 | | 5010 | Keystone Electronics | Test Point, Multipurpose, Red, TH | Red Multipurpose Testpoint |
| TP102, TP104 | 2 | | 5011 | Keystone Electronics | Test Point, Multipurpose, Black, TH | Black Multipurpose Testpoint |
| U101 | 1 | | TPS7H5005MPWSEP | Texas Instruments | TPS7H5005MPWSEP | TSSOP24 |
| U201, U202, U203 | 3 | | TPS7H6005/EM | Texas Instruments | TPS7H6005/EM | TSSOP56 |
| R108 | 0 | 0.3 | MCR25JZHFLR300 | Rohm | RES, 0.3, 1%, 0.5 W, 1210 | 1210 |

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