

PMP11140 REV A Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|---|----------|--------|--------------------|-----------------------------|---|-------------------------------|
| IPCB | 1 | | PMP11140 | Any | Printed Circuit Board | |
| 3.3Aux, Bode1, DrvSig, Vin, Vout | 5 | Red | 5000 | Keystone | Test Point, Miniature, Red, TH | Red Miniature Testpoint |
| Bode2, PowerGood | 2 | White | 5002 | Keystone | Test Point, Miniature, White, TH | White Miniature Testpoint |
| BodeGND, DrvSigRtn, VinRtn, VoutRtn | 4 | Black | 5001 | Keystone | Test Point, Miniature, Black, TH | Black Miniature Testpoint |
| C1 | 1 | 1uF | GRM188R61E105KA12D | MuRata | CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603 | 0603 |
| C2 | 1 | 10uF | GRM31CR71E106KA12L | MuRata | CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206 | 1206 |
| C3, C6 | 2 | 0.1uF | GRM155R61E104KA87D | MuRata | CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0402 | 0402 |
| C4 | 1 | 10pF | GRM1555C1H100JA01D | MuRata | CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| C5 | 1 | 1500pF | GRM155R71H152KA01D | MuRata | CAP, CERM, 1500 pF, 50 V, +/- 10%, X7R, 0402 | 0402 |
| C7 | 1 | 0.1uF | GCM155R71C104KA55D | MuRata | CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402 | 0402 |
| C8, C16 | 2 | 330pF | GRM1555C1H331JA01D | MuRata | CAP, CERM, 330pF, 50V, +/-5%, C0G/NP0, 0402 | 0402 |
| C9, C10, C11, C12 | 4 | 100uF | GRM31CR60G107ME39L | MuRata | CAP, CERM, 100 µF, 4 V, +/- 20%, X5R, 1206 | 1206 |
| C13 | 1 | 1500pF | GRM155R71H152KA01D | MuRata | CAP, CERM, 1500pF, 50V, +/-10%, X7R, 0402 | 0402 |
| C14 | 1 | 220pF | GRM155R71H221KA01D | MuRata | CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402 | 0402 |
| C15, C17, C231 | 3 | 1uF | GRM155R61A105KE15D | MuRata | CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402 | 0402 |
| C103, C191 | 2 | 22uF | C3225X5R1C226M | TDK | CAP, CERM, 22 µF, 16 V, +/- 20%, X5R, 1210 | 1210 |
| C104 | 0 | DNP | C1210C107M9PACTU | Kemet | CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210 | 1210 |
| C105 | 0 | DNP | EEFSX0E471ER | Panasonic | CAP, Polymer, 470 µF, 2.5 V, +/- 20%, 9 ohm, 7.3x1.8x4.3mm SMD | 7.3x1.8x4.3mm |
| C111 | 1 | 0.1uF | GRM155R61E104KA87D | MuRata | CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402 | 0402 |
| C192 | 1 | 100uF | UBT1E101MPD1TD | Nichicon | CAP, AL, 100 µF, 25 V, +/- 20%, 0.13 ohm, TH | Cap D8.0x11.5mm |
| C201, C207, C208, C209 | 4 | 0.1uF | C1005X7R1H104M | TDK | CAP, CERM, 0.1uF, 50V, +/-20%, X7R, 0402 | 0402 |
| C300 | 1 | 0.1uF | C0805C104K1RACTU | Kemet | CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805 | 0805 |
| C330 | 1 | 4.7uF | C2012X5R0J475M | TDK | CAP, CERM, 4.7uF, 6.3V, +/-20%, X5R, 0805 | 0805 |
| CNTL, Sense- | 2 | Yellow | 5004 | Keystone | Test Point, Miniature, Yellow, TH | Yellow Miniature Testpoint |
| Communications | 1 | | 5103308-1 | TE Connectivity | Header (shrouded), 100mil, 5x2, Gold, TH | 5x2 Shrouded header |
| D203 | 1 | 30V | BAT54WS-7-F | Diodes Inc. | Diode, Schottky, 30V, 0.2A, SOD-323 | SOD-323 |
| D240, D241 | 2 | 30V | MBR0530T1G | ON Semiconductor | Diode, Schottky, 30V, 0.5A, SOD-123 | SOD-123 |
| D242 | 1 | Red | LTST-C170KRKT | Lite-On | LED, Red, SMD | LED_0805 |
| DynEN | 1 | | PEC02SAAN | Sullins Connector Solutions | Header, 100mil, 2x1, Tin, TH | Header, 2 PIN, 100mil, Tin |
| H9, H10, H11, H12 | 4 | | SJ-5303 (CLEAR) | 3M | Bumpon, Hemisphere, 0.44 X 0.20, Clear | Transparent Bumpon |
| J100, J190 | 2 | | ED120/2DS | On-Shore Technology | TERMINAL BLOCK 5.08MM VERT 2POS, TH | TERM_BLK, 2pos, 5.08mm |
| J111 | 1 | | U.FL-R-SMT-1 | Hirose Electric Co. Ltd. | Connector, Ultra-Mini Coaxial, SMD | Ultra small CO-AX SMD |
| L1 | 1 | 3.3uH | IHLP2020CZER3R3M11 | Vishay-Dale | Inductor, Shielded Drum Core, Powdered Iron, 3.3 µH, 5.5 A, 0.0404 ohm, SMD | 5.18x3x5.5mm |
| OFF_ON | 1 | | PEC03SAAN | Sullins Connector Solutions | Header, 100mil, 3x1, Tin, TH | Header, 3 PIN, 100mil, Tin |
| Q1 | 1 | 20V | CSD85301Q2 | Texas Instruments | MOSFET, N-CH, 20 V, 6.7 A, | |

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|---|----------|--------|------------------|---------------------------|--|----------------------------------|
| Q250 | 1 | 30V | CSD17313Q2 | Texas Instruments | MOSFET, N-CH, 30 V, 5 A, SON 2x2mm | SON 2x2mm |
| R1 | 1 | 10 | CRCW040210R0JNED | Vishay-Dale | RES, 10 ohm, 5%, 0.063W, 0402 | 0402 |
| R2 | 1 | 1.50k | CRCW04021K50FKED | Vishay-Dale | RES, 1.50 k, 1%, 0.063 W, 0402 | 0402 |
| R3, R5 | 2 | 36.5k | CRCW040236K5FKED | Vishay-Dale | RES, 36.5k ohm, 1%, 0.063W, 0402 | 0402 |
| R4, R8, R207, R241, R242, R301, R302, R303, R304 | 9 | 10.0k | CRCW040210K0FKED | Vishay-Dale | RES, 10.0k ohm, 1%, 0.063W, 0402 | 0402 |
| R6 | 1 | 20.0k | CRCW040220K0FKED | Vishay-Dale | RES, 20.0 k, 1%, 0.063 W, 0402 | 0402 |
| R7, R16 | 2 | 0 | CRCW04020000Z0ED | Vishay-Dale | RES, 0 ohm, 5%, 0.063W, 0402 | 0402 |
| R9 | 1 | 2.49k | CRCW04022K49FKED | Vishay-Dale | RES, 2.49 k, 1%, 0.063 W, 0402 | 0402 |
| R10 | 1 | 6.8 | CRCW04026R80JNED | Vishay-Dale | RES, 6.8, 5%, 0.063 W, 0402 | 0402 |
| R11 | 1 | 249 | CRCW0402249RFKED | Vishay-Dale | RES, 249, 1%, 0.063 W, 0402 | 0402 |
| R12, R14 | 2 | 100 | CRCW0402100RFKED | Vishay-Dale | RES, 100 ohm, 1%, 0.063W, 0402 | 0402 |
| R13 | 1 | 4.99k | CRCW04024K99FKED | Vishay-Dale | RES, 4.99 k, 1%, 0.063 W, 0402 | 0402 |
| R15, R100, R103 | 3 | 49.9 | CRCW040249R9FKED | Vishay-Dale | RES, 49.9 ohm, 1%, 0.063W, 0402 | 0402 |
| R111 | 1 | 49.9 | CRCW040249R9FKED | Vishay-Dale | RES, 49.9, 1%, 0.063 W, 0402 | 0402 |
| R192 | 1 | 1.0 | CRCW06031R00JNEA | Vishay-Dale | RES, 1.0, 5%, 0.1 W, 0603 | 0603 |
| R206 | 1 | 8.06k | CRCW04028K06FKED | Vishay-Dale | RES, 8.06k ohm, 1%, 0.063W, 0402 | 0402 |
| R208 | 1 | 200k | CRCW0402200KFKED | Vishay-Dale | RES, 200k ohm, 1%, 0.063W, 0402 | 0402 |
| R243 | 1 | 330 | CRCW0402330RJNED | Vishay-Dale | RES, 330 ohm, 5%, 0.063W, 0402 | 0402 |
| R251, R252 | 2 | 0.47 | CSRN2512FKR470 | Stackpole Electronics Inc | RES, 0.47, 1%, 2 W, 2512 | 2512 |
| Sense+ | 1 | Orange | 5003 | Keystone | Test Point, Miniature, Orange, TH | Orange Miniature Testpoint |
| TP105, TP193 | 2 | SMT | 5016 | Keystone | Test Point, Compact, SMT | Testpoint_Keystone_ Compact |
| TP199 | 1 | SMT | 5015 | Keystone | Test Point, Miniature, SMT | Testpoint_Keystone_ Miniature |
| U1 | 1 | | TPS40400RHL | Texas Instruments | 3.0-V TO 20-V PMBus SYNCHRONOUS BUCK CONTROLLER, RHL0024A | RHL0024A |
| U201 | 1 | | TLC555CD | Texas Instruments | LinCMOS Timer, D0008A | D0008A |
| U230 | 1 | | UCC27324D | Texas Instruments | DUAL 4-A PEAK HIGH SPEED LOW- SIDE POWER MOSFET DRIVERS, D0008A | D0008A |
| U330 | 1 | | TPS70933DRV | Texas Instruments | 150-mA, 3.3-V, 1-µA IQ Voltage Regulators with Enable, DRV0006A | DRV0006A |
| FID1, FID2, FID3 | 0 | | N/A | N/A | Fiducial mark. There is nothing to buy or mount. | Fiducial |

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