

PMP10950 REV A Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|------------------------|----------|---------|---------------------|----------------------------|--|---|
| I PCB500 | 1 | | PMP10950 | Any | Printed Circuit Board | |
| C500 | 1 | 2.2uF | 450MPK225J | Rubycon | CAP, Film, 2.2 μ F, 450 V, +/- 5%, TH | 18.00x20.00x13.50mm |
| C501, C510, C511 | 3 | 1uF | GRM188R61E105KA12D | MuRata | CAP, CERM, 1uF, 25V, +/-10%, X5R, 0603 | 0603 |
| C502, C503, C504, C505 | 4 | 2.2uF | HMK325B7225KN-T | Taiyo Yuden | CAP, CERM, 2.2 μ F, 100 V, +/- 10%, X7R, 1210 | 1210 |
| C506, C507, C539 | 3 | 270uF | 100TXW270MEFC10X50 | Rubycon | CAP ALUM 270UF 20% 100V RADIAL | |
| C508 | 1 | 0.01uF | VJ1210Y103KBBAT4X | Vishay-Vitramon | CAP, CERM, 0.01 μ F, 100 V, +/- 10%, X7R, 1210 | 1210 |
| C509 | 1 | 0.1uF | VJ1210Y104KBBAT4X | Vishay-Vitramon | CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 1210 | 1210 |
| C512 | 1 | 0.027uF | 121MPE273J | Rubycon | CAP, Film, 0.027 μ F, 1250 V, +/- 5%, TH | 18x9x16mm |
| C513, C514, C515, C516 | 4 | 10uF | 1210YD106KAT2A | AVX | CAP, CERM, 10uF, 16V, +/-10%, X5R, 1210 | 1210 |
| C517, C518, C540 | 3 | 1000uF | EEUFM1C102 | Panasonic | CAP ALUM 1000UF 16V 20% RADIAL | 10x20 |
| C519 | 1 | 0.1uF | 06033C104KAT2A | AVX | CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603 | 0603 |
| C520, C529 | 2 | 1uF | 08053D105KAT2A | AVX | CAP, CERM, 1uF, 25V, +/-10%, X5R, 0805 | 0805 |
| C521, C522 | 2 | 0.033uF | 121MPE333J | Rubycon | CAP, Film, 0.033uF, 1250V, +/-5%, TH | 18x9.5x18mm |
| C523 | 1 | 0.47uF | GRM21BR71H474KA88L | MuRata | CAP, CERM, 0.47 μ F, 50 V, +/- 10%, X7R, 0805 | 0805 |
| C524 | 1 | 100pF | GRM31A7U3A101JW31D | MuRata | CAP, CERM, 100pF, 1000V, +/-5%, U2J, 1206 | 1206 |
| C525, C528 | 2 | 0.1uF | C1005X7R1H104M | TDK | CAP, CERM, 0.1uF, 50V, +/-20%, C0G/NP0, 0402 | 0402 |
| C526 | 1 | 1500pF | DE2E3KY152MN3AM02 | MuRata | CAP, CERM, 1500 pF, 250 V, +/- 20%, E, TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm | TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm |
| C527 | 1 | 0.47uF | C0603C474K4RACTU | Kemet | CAP, CERM, 0.47uF, 16V, +/-10%, X7R, 0603 | 0603 |
| C530 | 1 | 1uF | 12063C105KAT2A | AVX | CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 1206 | 1206 |
| C531 | 1 | 0.01uF | C0603C103K5RACTU | Kemet | CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603 | 0603 |
| C533 | 1 | 0.22uF | 08053C224JAT2A | AVX | CAP, CERM, 0.22uF, 25V, +/-5%, X7R, 0805 | 0805 |
| C534 | 1 | 1uF | C0603C105K4PACTU | Kemet | CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603 | 0603 |
| C535 | 1 | 100pF | C1608C0G1H101J | TDK | CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603 | 0603 |
| C536 | 1 | 0.022uF | C0603C223K3RACTU | Kemet | CAP, CERM, 0.022 μ F, 25 V, +/- 10%, X7R, 0603 | 0603 |
| C537 | 1 | 1uF | C3216X7R1H105K | TDK | CAP, CERM, 1uF, 50V, +/-10%, X7R, 1206 | 1206 |
| C538 | 1 | 1uF | C3216X7R1E105K085AA | TDK | CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 1206 | 1206 |
| D500, D507 | 2 | 600V | MURH860CTG | ON Semiconductor | Diode, Ultrafast, 600 V, 4 A, TH | TO-220AB |
| D501, D504, D508, D511 | 4 | 0.63V | BAV99WT1G | Fairchild Semiconductor | Diode, P-N, 70V, 0.2A, SOT-323 | SOT-323 |
| D502, D506 | 2 | 0.35V | BAT54HT1G | ON Semiconductor | Diode, Schottky, 30V, 0.2A, SOD-323 | SOD-323 |
| D503, D505 | 2 | 45V | STPS3045CW | STMicroelectronics | Diode, Schottky, 45 V, 15 A, TH | TO-247 |
| D509 | 1 | 0.45V | MBR0560-TP | Micro Commercial Component | Diode, Schottky, 60V, 3A, SOD-123 | SOD-123 |
| D510 | 1 | 30V | BAT54WS-7-F | Diodes Inc. | Diode, Schottky, 30 V, 0.2 A, SOD-323 | SOD-323 |
| D512 | 1 | 100V | MMDL914-TP | Micro Commercial Component | Diode, Switching, 100 V, 0.2 A, SOD-323 | SOD-323 |
| D513, D514 | 2 | 43V | MMSZ4717-V | Vishay-Semiconductor | Diode, Zener, 43 V, 500 mW, SOD-123 | SOD-123 |
| H500, H502, H504, H505 | 4 | | 513301B02500G | Aavid | HEATSINK TO-218/TO-247 W/PINS 2" | 12.70x50.80x34.92mm |
| H501, H503 | 2 | | 513201B02500G | Aavid | HEATSINK TO-218/TO-247 W/PINS 2" | 12.70x50.80x34.92mm |
| H506, H507, H508, H509 | 4 | | NY PMS 440 0025 PH | B&F Fastener Supply | Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead | Screw |

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|------------------------------------|----------|--------|------------------|---------------------------|--|----------------------------|
| H510, H511, H512, H513 | 4 | | 1902C | Keystone | Standoff, Hex, 0.5"L #4-40 Nylon | Standoff |
| J500, J501, J502, J503, J504, J505 | 6 | 2x1 | 1715721 | Phoenix Contact | Conn Term Block, 2POS, 5.08mm, TH | 2POS Terminal Block |
| L501 | 1 | 15uH | 86H-15014B | Delta Electronics Inc. | Inductor, Wirewound, 15 µH, 8 A, TH | D39.6xH14.5mm |
| Q501, Q503 | 2 | 650V | IPW60R099C6 | Infineon Technologies | MOSFET N-CH 600V 37.9A TO247 | TO-247 |
| Q506, Q507 | 2 | 60V | 2N7002-7-F | Diodes Inc. | MOSFET, N-CH, 60 V, 0.17 A, SOT-23 | SOT-23 |
| Q508 | 1 | 40 V | MMBT4401-7-F | Diodes Inc. | Transistor, NPN, 40 V, 0.15 A, SOT-23 | SOT-23 |
| R500 | 1 | 0 | CRCW20100000Z0EF | Vishay-Dale | RES, 0, 5%, 0.75 W, 2010 | 2010 |
| R501, R507 | 2 | 3.0 | CRCW06033R00JNEA | Vishay-Dale | RES, 3.0 ohm, 5%, 0.1W, 0603 | 0603 |
| R502 | 1 | 1.0k | CRCW06031K00JNEA | Vishay-Dale | RES, 1.0 k, 5%, 0.1 W, 0603 | 0603 |
| R503, R510 | 2 | 10.0k | CRCW060310K0FKEA | Vishay-Dale | RES, 10.0 k, 1%, 0.1 W, 0603 | 0603 |
| R504, R509 | 2 | 20.0k | CRCW080520K0FKEA | Vishay-Dale | RES, 20.0k ohm, 1%, 0.125W, 0805 | 0805 |
| R506, R508 | 2 | 0.01 | CSRN2512FK10L0 | Stackpole Electronics Inc | RES, 0.01, 1%, 2 W, 2512 | 2512 |
| R511 | 1 | 75.0k | CRCW060375K0FKEA | Vishay-Dale | RES, 75.0 k, 1%, 0.1 W, 0603 | 0603 |
| R512 | 1 | 10.0 | CRCW060310R0FKEA | Vishay-Dale | RES, 10.0, 1%, 0.1 W, 0603 | 0603 |
| R513, R517 | 2 | 10.0 | CRCW120610R0FKEA | Vishay-Dale | RES, 10.0 ohm, 1%, 0.25W, 1206 | 1206 |
| R514, R515 | 2 | 40.2k | CRCW060340K2FKEA | Vishay-Dale | RES, 40.2 k, 1%, 0.1 W, 0603 | 0603 |
| R516, R521 | 2 | 1.0Meg | CRCW06031M00JNEA | Vishay-Dale | RES, 1.0 M, 5%, 0.1 W, 0603 | 0603 |
| R518, R519 | 2 | 1.00 | RC0603FR-071RL | Yageo America | RES, 1.00, 1%, 0.1 W, 0603 | 0603 |
| R520 | 1 | 2.0k | CRCW08052K00JNEA | Vishay-Dale | RES, 2.0 k, 5%, 0.125 W, 0805 | 0805 |
| R522 | 1 | 20.0k | CRCW080520K0FKEA | Vishay-Dale | RES, 20.0 k, 1%, 0.125 W, 0805 | 0805 |
| R523, R526 | 2 | 1.00k | CRCW06031K00FKEA | Vishay-Dale | RES, 1.00 k, 1%, 0.1 W, 0603 | 0603 |
| R524 | 1 | 511 | CRCW0402511RFKED | Vishay-Dale | RES, 511 ohm, 1%, 0.063W, 0402 | 0402 |
| R525 | 1 | 4.99k | CRCW08054K99FKEA | Vishay-Dale | RES, 4.99k ohm, 1%, 0.125W, 0805 | 0805 |
| R527 | 1 | 80.6k | CRCW060380K6FKEA | Vishay-Dale | RES, 80.6 k, 1%, 0.1 W, 0603 | 0603 |
| R528, R537 | 2 | 10.0k | CRCW060310K0FKEA | Vishay-Dale | RES, 10.0k ohm, 1%, 0.1W, 0603 | 0603 |
| R531 | 1 | 15 | CRCW060315R0JNEA | Vishay-Dale | RES, 15 ohm, 5%, 0.1W, 0603 | 0603 |
| R532 | 1 | 22.1 | CRCW060322R1FKEA | Vishay-Dale | RES, 22.1, 1%, 0.1 W, 0603 | 0603 |
| R533 | 1 | 20.0k | CRCW040220K0FKED | Vishay-Dale | RES, 20.0k ohm, 1%, 0.063W, 0402 | 0402 |
| R534 | 1 | 3.40k | CRCW06033K40FKEA | Vishay-Dale | RES, 3.40 k, 1%, 0.1 W, 0603 | 0603 |
| R535 | 1 | 45.3k | CRCW120645K3FKEA | Vishay-Dale | RES, 45.3 k, 1%, 0.25 W, 1206 | 1206 |
| R536 | 1 | 95.3k | CRCW060395K3FKEA | Vishay-Dale | RES, 95.3 k, 1%, 0.1 W, 0603 | 0603 |
| R538 | 1 | 46.4k | CRCW120646K4FKEA | Vishay-Dale | RES, 46.4 k, 1%, 0.25 W, 1206 | 1206 |
| R539 | 1 | 100k | CRCW0402100KFED | Vishay-Dale | RES, 100k ohm, 1%, 0.063W, 0402 | 0402 |
| R540 | 1 | 2.49k | CRCW06032K49FKEA | Vishay-Dale | RES, 2.49k ohm, 1%, 0.1W, 0603 | 0603 |
| T500 | 1 | 900 uH | AF4779 | Vitec Corporation | Drive Gate Transformer, 900uH | 11.5x12x12.5mm |
| T501 | 1 | 100 uH | 86H-15015A | Delta Electronics Inc. | Transformer, 100 uH, TH | 57.5x42.5mm |
| TP500, TP501, TP504 | 3 | Red | 5000 | Keystone | Test Point, Miniature, Red, TH | Red Miniature Testpoint |
| TP502, TP503, TP505, TP508 | 4 | Black | 5001 | Keystone | Test Point, Miniature, Black, TH | Black Miniature Testpoint |
| TP506 | 1 | Orange | 5003 | Keystone | Test Point, Miniature, Orange, TH | Orange Miniature Testpoint |
| TP507 | 1 | Yellow | 5004 | Keystone | Test Point, Miniature, Yellow, TH | Yellow Miniature Testpoint |
| U500, U501 | 2 | | UCC27511DBVR | Texas Instruments | Single-Channel High-Speed Low-Side Gate Driver (with 4-A Peak Source and 8-A Peak Sink), DBV0006A | DBV0006A |
| U502, U505, U506 | 3 | | PC817X4NSZ0F | | Opto-Isolator, 1 Channel, TH | DIP-4 |
| U503 | 1 | | UCC25600D | Texas Instruments | High-Performance Resonant Mode Controller with Voltage Control, 50 % Duty Cycle, -40 to +125 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br) | D0008A |
| U504 | 1 | | TL331DBV | Texas Instruments | SINGLE DIFFERENTIAL COMPARATOR, DBV0005A | DBV0005A |

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|------------|----------|-------|------------------|------------------------|--|------------------|
| U507 | 1 | | TL431AIDBZR | Texas Instruments | Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br) | DBZ0003A |
| L500, L502 | 0 | 1uH | 7447709001 | Würth Elektronik eiSos | Inductor, Shielded Drum Core, Ferrite, 1 µH, 13 A, 0.00386 ohm, SMD | WE-PD-XXL |
| Q500, Q504 | 0 | 80V | FMMT620TA | Diodes | TRANS NPN 80V 1.5A SOT23-3 | SOT-23 |
| Q502, Q505 | 0 | 20 V | FMMT718TA | Diodes Inc. | Transistor, PNP, 20 V, 1.5 A, SOT-23 | SOT-23 |
| R505 | 0 | 0 | CRCW20100000Z0EF | Vishay-Dale | RES, 0, 5%, 0.75 W, 2010 | 2010 |

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