

Variant: 001
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PMP23463.2 REV B Bill of Materials

| Item # | Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|--------|--|----------|---------|-------------------------|---------------------------|--|--|
| 1 | C1, C14 | 2 | 0.015uF | PHE426MA150JR05 | Kemet | CAP, Film, 0.015 uF, 630 V, +/- 20%, TH | 13x4mm |
| 2 | C2, C3, C8, C9 | 4 | 680uF | EK2M350ELL681M,25S | United Chemi-Con | Cap Aluminum Lytic 680uF 35V 20% (10 X 25mm) Radial 5mm 2250mA | RADIAL |
| 3 | C4, C5, C10, C11 | 4 | 22uF | GMK325B,1226MM-P | Taiyo Yuden | CAP, CERM, 22 uF, 35 V, +/- 20%, XSR, 1210 | 1210 |
| 4 | C6, C7 | 2 | 82uF | 450HW82MEFR10W80 | Rubycon | 82 uF 450 V Aluminum Electrolytic Capacitors Radial, Can 2000 Hrs @ 105°C | RADIAL |
| 5 | C12 | 1 | 100pF | 06035A101FAT2A | AVX | CAP, CERM, 100 pF, 50 V, +/- 1%, COG/NP0, 0603 | 0603 |
| 6 | C13 | 1 | 150pF | GRM31A5C2J151JW01D | MuRata | CAP, CERM, 150 pF, 630 V, +/- 5%, COG/NP0, 1206 | 1206 |
| 7 | C15 | 1 | 1000pF | C040-E-03A102M4NKA | TDK | CAP, CERM, 1000 pF, 50 V, +/- 20%, E, D7x16mm | 07x16mm |
| 8 | C16 | 1 | 1000pF | 120R1A101JAT2A | AVX | CAP, CERM, 100 pF, 100 V, +/- 5%, COG/NP0, 1206 | 1206 |
| 9 | C17, C21 | 2 | 1uF | GRM188R71C105KE15D | MuRata | CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603 | 0603 |
| 10 | C18, C22 | 2 | 2.2uF | C2012XR1V225K085AC | TDK | CAP, CERM, 2.2 uF, 35 V, +/- 10%, X7R, 0805 | 0805 |
| 11 | C20 | 1 | 4.7uF | C3216X7R1E475K085AB | TDK | CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 1206 | 1206 |
| 12 | C23 | 1 | 1500pF | C0603C152K5RACTU | Kemet | CAP, CERM, 1500 pF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 13 | C24 | 1 | 3300pF | C0603C332K5RACTU | Kemet | CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 14 | C25 | 1 | 150pF | 06035A151JAT2A | AVX | CAP, CERM, 150 pF, 50 V, +/- 5%, COG/NP0, 0603 | 0603 |
| 15 | C26 | 1 | 0.1uF | GRM31C5C1E104JA01L | MuRata | CAP, CERM, 0.1 uF, 25 V, +/- 5%, COG/NP0, 1206 | 1206 |
| 16 | C27 | 1 | 0.01uF | 06031C103JAT2A | AVX | CAP, CERM, 0.01 uF, 100 V, +/- 5%, X7R, 0603 | 0603 |
| 17 | C30 | 1 | 2200pF | C0603222K5RACTU | Kemet | CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 18 | C31, C34 | 2 | 220pF | C0603222K5RACTU | Kemet | CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 19 | C32 | 1 | 1000pF | 04025C102JAT2A | AVX | CAP, CERM, 1000 pF, 50 V, +/- 5%, X7R, 0402 | 0402 |
| 20 | C35 | 1 | 22uF | TMK316BB,1226ML-T | Taiyo Yuden | CAP, CERM, 22 uF, 25 V, +/- 20%, XSR, 1206, 190 | 1206, 190 |
| 21 | C36, C37 | 2 | 0.022uF | GRM32OR72,1223KW01L | MuRata | CAP, CERM, 0.022 uF, 630 V, +/- 10%, X7R, 1210 | 1210 |
| 22 | CR, HS | 2 | | 0312-0-15-15-34-27-10-0 | Mill-Max | Pin Receptacle, .032-.046" .075" Dia, Gold, TH | Pin Receptacle |
| 23 | D1, D2 | 2 | 30V | PMEG3010E1GWJ | Nexperia | Diode, Schottky, 30 V, 1 A, AEC-Q101, SOD-123 | SOD-123 |
| 24 | D3 | 1 | 600V | SI231AF | Fairchild Semiconductor | Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF | SMAF |
| 25 | D100 | 1 | 10V | BZT52C10T-7 | Diodex Inc. | Diode, Zener, 10 V, 300 mW, SOD-523 | SOD-523 |
| 26 | J1, J4 | 2 | | ED120/4DS | On-Shore Technology | Terminal Block, 5.08 mm, 4x1, Brass, TH | 4x1 5.08 mm Terminal Block |
| 27 | J2, J3 | 2 | | ED120/2DS | On-Shore Technology | Terminal Block, 5.08 mm, 2x1, Brass, TH | 2x1 5.08 mm Terminal Block |
| 28 | J5, J6, J7, J8, J9, J10, J11, J12, J20 | 9 | | 923345-06-C | 3M | Jumper Wire, 600mil spacing, Blue, pkg of 150, TH | 600 mil Jumper Wire |
| 29 | J13 | 1 | | 923345-04-C | 3M | Jumper Wire, 400 mil Spacing, Yellow, Pkg of 200 | Jumper Wire, 400 mil Spacing, Yellow, Pkg of 200 |
| 30 | J14, J17, J18 | 3 | | 923345-03-C | 3M | Jumper Wire, 300mil spacing, Orange, pkg of 200 | 200 mil Jumper Wire |
| 31 | J15 | 1 | | 923345-10-C | 3M | Jumper Wire Pre-Formed for Breadboard 1.000" (25.40mm) 22 AWG 100 per Pkg | JUMPER2 |
| 32 | J16 | 1 | | 923345-02-C | 3M | Jumper Wire, 200mil spacing, Red, pkg of 200 | 200 mil Jumper Wire |
| 33 | J19 | 1 | | 923345-05-C | 3M | Jumper Wire, 500mil spacing, Green, pkg of 200 | 500 mil Jumper Wire |
| 34 | PGND, TP1, TP2, TP4 | 4 | | 5011 | Keystone Electronics | Test Point, Multipurpose, Black, TH | Black Multipurpose Testpoint |
| 35 | Q1, Q2, Q5, Q6 | 4 | 80V | BSC052N08NS5ATMA1 | Infineon Technologies | MOSFET, N-CH, 80 V, 95 A, PG-TDSON-8 | PG-TDSON-8 |
| 36 | Q3, Q7 | 2 | 600V | IPPE0R099C7W,KS-A1 | Infineon Technologies | MOSFET, N-CH, 600 V, 22 A, TO-220AB | TO-220AB |
| 37 | Q4, Q8 | 2 | 30 V | BC586C-7-F | Diodes Inc. | Transistor, PNP, 30 V, 0.1 A, SOT-23 | SOT-23 |
| 38 | R1, R3 | 2 | 22.1 k | RC0603FR-0722R1L | Yageo | RES, 22.1 k, 1%, 0.1 W, 0603 | 0603 |
| 39 | R2 | 1 | 10.0k | RC0603V120K10K0FKEA | Yishay-Dale | RES, 10.0 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206 | 1206 |
| 40 | R4 | 1 | 10.0k | M55342K12B10E0T | TT Electronics/IRC | RES, 10.0 k, 1%, 0.1 W, 0603 | 0603 |
| 41 | R5 | 1 | 165 | RC1206FR-07165RL | Yageo America | RES, 165, 1%, 0.25 W, 1206 | 1206 |
| 42 | R6, R9 | 2 | 2.00k | RC0603FR-072KL | Yageo | RES, 2.00 k, 1%, 0.1 W, 0603 | 0603 |
| 43 | R7 | 1 | 0 | RC0603JR-070RL | Yageo | RES, 0, 5%, 0.1 W, 0603 | 0603 |
| 44 | R10 | 1 | 0 | RC0402JR-070RL | Yageo America | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| 45 | R11 | 1 | 13.3k | RC0603FR-0713K3L | Yageo | RES, 13.3 k, 1%, 0.1 W, 0603 | 0603 |
| 46 | R12 | 1 | 0 | RC0805JR-070RL | Yageo America | RES, 0, 5%, 0.125 W, 0805 | 0805 |
| 47 | R13 | 1 | 2.05k | RC0603FR-072K05L | Yageo | RES, 2.05 k, 1%, 0.1 W, 0603 | 0603 |
| 48 | R14 | 1 | 147k | RC0603FR-07147KL | Yageo | RES, 147 k, 1%, 0.1 W, 0603 | 0603 |
| 49 | R15 | 1 | 2.2 | ERJ-3RQF2R2V | Panasonic | RES, 2.20, 1%, 0.1 W, 0603 | 0603 |
| 50 | R16, R34 | 2 | 0 | RMCF060320R000 | Stackpole Electronics Inc | RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| 51 | R17, R19, R25 | 3 | | KTR18E2PF3304 | Rohm Semiconductor | 3.3 MOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) | 1206 |
| 52 | R18 | 1 | 10.0k | ERJ-2RKF1002X | Panasonic | RES, 10.0 k, 1%, 0.1 W, 0402 | 0402 |
| 53 | R20 | 1 | 33.2k | RC0603FR-0733K2L | Yageo | RES, 33.2 k, 1%, 0.1 W, 0603 | 0603 |
| 54 | R24 | 1 | 1.40Meg | RC1206FR-071M4L | Yageo America | RES, 1.40 M, 1%, 0.25 W, 1206 | 1206 |
| 55 | R28 | 1 | 78.7k | RC0603FR-0778K7L | Yageo | RES, 78.7 k, 1%, 0.1 W, 0603 | 0603 |
| 56 | R27 | 1 | 0 | RMCF120620R000 | Stackpole Electronics | 0Ω ±0.25W 1206 Thick Film Chip Resistor AEC-Q200 compliant | 1206 |
| 57 | R28 | 1 | 18.2k | RC0603FR-0718K2L | Yageo | RES, 18.2 k, 1%, 0.1 W, 0603 | 0603 |
| 58 | R30 | 1 | 470k | B57371V247A,060 | TDK | NTC Thermistor 470K 0603 (1608 Metric) | 0603 |
| 59 | R31 | 1 | 332k | RC0603FR-07332KL | Yageo | RES, 332 k, 1%, 0.1 W, 0603 | 0603 |
| 60 | R32 | 1 | 158k | RC0603FR-07158KL | Yageo | RES, 158 k, 1%, 0.1 W, 0603 | 0603 |
| 61 | R33 | 1 | 37.4k | RC0603FR-0737K4L | Yageo | RES, 37.4 k, 1%, 0.1 W, 0603 | 0603 |
| 62 | R100, R101, R102, R103, R104, R105, R106, R107 | 8 | 3.65k | RC1206FR-073K65L | Yageo America | RES, 3.65 k, 1%, 0.25 W, 1206 | 1206 |
| 63 | R108 | 1 | 1.00k | ERJ-3EKF1001V | Panasonic | RES, 1.00 k, 1%, 0.1 W, 0603 | 0603 |
| 64 | T1 | 1 | | 63204 | Payton Planar | Backlight LLC Transformer | PTH_XRMS_80MM0.64MM0 |
| 65 | TP5, VIN | 2 | | 5010 | Keystone Electronics | Test Point, Multipurpose, Red, TH | Red Multipurpose Testpoint |
| 66 | TP6 | 1 | | 5013 | Keystone Electronics | Test Point, Multipurpose, Orange, TH | Orange Multipurpose Testpoint |
| 67 | TP7 | 1 | | 5012 | Keystone Electronics | Test Point, Multipurpose, White, TH | White Multipurpose Testpoint |
| 68 | U1, U2 | 2 | | UCC24612-2DBVT | Texas Instruments | High-Frequency Multi-Mode Synchronous Rectifier Controller, DBV0005A (SOT-23-5) | DBV0005A |
| 69 | U3 | 1 | | VO618A-3 | Vishay-Semiconductor | Optocoupler, 5.3 kV, 100-200% CTR, SMT | DIP, 4-Leads, Body 6.86x4.53mm, Pitch 2.54mm |
| 70 | U4 | 1 | | UCC256603DDBR | Texas Instruments | 750kHz Wide VIN/VOUT Range LLC Controller Optimized for Light Load Efficiency | SOIC14 |
| 71 | U5 | 1 | | TL432AIDBZR | Texas Instruments | Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (082), Green (RoHS & no Sb/Bi) | DB20003A |
| 72 | C19 | 0 | 4700pF | C0603C47J1GAC7867 | Kemet | CAP, CERM, 4700 pF, 100 V, +/- 5%, COG/NP0, 0603 | 0603 |
| 73 | C28, C29 | 0 | 10uF | C1206C106J3RACAUTO | Kemet | CAP, CERM, 10 uF, 25 V, +/- 5%, X7R, AEC-Q200 Grade 1, 1206 | 1206 |
| 74 | C33 | 0 | 1000pF | C1608X7R2A102K080AA | TDK | CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603 | 0603 |
| 75 | D4 | 0 | 15V | MM3Z15VST1G | ON Semiconductor | Diode, Zener, 15 V, 300 mW, SOD-323 | SOD-323 |
| 76 | G9 | 0 | 600V | BSS127S-7 | Diodes Inc. | MOSFET, N-CH, 600 V, 0.05 A, SOT-23 | SOT-23 |
| 77 | C10, Q11 | 0 | 60 V | MMJ1A05L1TG | ON Semiconductor | Transistor, NPN, 60 V, 0.5 A, AEC-Q101, SOT-23 | SOT-23 |
| 78 | R8 | 0 | 1.21k | RC0603FR-071K21L | Yageo | RES, 1.21 k, 1%, 0.1 W, 0603 | 0603 |
| 79 | R21 | 0 | 1.00k | RCW06031K00FKEA | Vishay-Dale | RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| 80 | R22 | 0 | 33.2k | RC0603FR-0733K2L | Yageo | RES, 33.2 k, 1%, 0.1 W, 0603 | 0603 |
| 81 | R23 | 0 | 100k | RC0603FR-07100KL | Yageo | RES, 100 k, 1%, 0.1 W, 0603 | 0603 |
| 82 | R29 | 0 | 2.00k | RC0603FR-072KL | Yageo | RES, 2.00 k, 1%, 0.1 W, 0603 | 0603 |
| 83 | TP8 | 0 | | 5012 | Keystone Electronics | Test Point, Multipurpose, White, TH | White Multipurpose Testpoint |