

Variant: 001  
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PMP21513 REV B Bill of Materials

| Item # | Designator              | Quantity | Value   | PartNumber          | Manufacturer                | Description                                                                                                      | PackageReference                             |
|--------|-------------------------|----------|---------|---------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1      | C1                      | 1        | 120uF   | EKZE160ELL121MF11D  | Chemi-Con                   | CAP, AL, 120 uF, 16 V, +/- 20%, TH                                                                               | D6.3xL11mm                                   |
| 2      | C2                      | 1        | 100uF   | EKZE100ELL101ME11D  | Chemi-Con                   | CAP, AL, 100 uF, 10 V, +/- 20%, TH                                                                               | D5xL11mm                                     |
| 3      | C3                      | 1        | 1uF     | B37941K9105K62      | TDK                         | CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0805                                                                        | 0805                                         |
| 4      | C4                      | 1        | 1uF     | C0805C105K8RACTU    | Kemet                       | CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0805                                                                        | 0805                                         |
| 5      | C5                      | 1        | 390pF   | C0805C391J2GACTU    | Kemet                       | CAP, CERM, 390 pF, 200 V, +/- 5%, COG/NP0, 0805                                                                  | 0805                                         |
| 6      | C6                      | 1        | 1000pF  | GRM188R72D102KW07D  | MuRata                      | CAP, CERM, 1000 pF, 200 V, +/- 10%, X7R, 0603                                                                    | 0603                                         |
| 7      | C7, C8                  | 2        | 47uF    | EEU-EE2G470S        | Panasonic                   | CAP, AL, 47 uF, 400 V, +/- 20%, TH                                                                               | 18x20mm                                      |
| 8      | C9, C10                 | 2        | 470uF   | EEU-FR1V471B        | Panasonic                   | CAP, AL, 470 uF, 35 V, +/- 20%, TH                                                                               | 10x16mm                                      |
| 9      | C11, C12                | 2        | 0.33uF  | B32922C3334K        | TDK                         | CAP, Film, 0.33 uF, 630 V, +/- 10%, TH                                                                           | B32922 14.5mm                                |
| 10     | C13                     | 1        | 1uF     | 08055C105KAT2A      | AVX                         | CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805                                                                        | 0805                                         |
| 11     | C14                     | 1        | 1500pF  | DE2E3KY152MN3AM02F  | MuRata                      | CAP, CERM, 1500 pF, X1 250 VAC/Y2 300 VAC, +/- 20%, E, TH                                                        | TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm  |
| 12     | C15                     | 1        | 6.8uF   | C3216X7R1V685K160AC | TDK                         | CAP, CERM, 6.8 uF, 35 V, +/- 10%, X7R, 1206                                                                      | 1206                                         |
| 13     | C16                     | 1        | 0.1uF   | 06035C104KAT2A      | AVX                         | CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603                                                                      | 0603                                         |
| 14     | C17                     | 1        | 0.022uF | C0603C223K5RACTU    | Kemet                       | CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603                                                                    | 0603                                         |
| 15     | C18                     | 1        | 0.047uF | C1608X7R1H473K080AA | TDK                         | CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, 0603                                                                    | 0603                                         |
| 16     | C19                     | 1        | 680pF   | GRM31B5C2J681JW01L  | MuRata                      | CAP, CERM, 680 pF, 630 V, +/- 5%, COG/NP0, 1206                                                                  | 1206                                         |
| 17     | C20                     | 1        | 22uF    | C2012JB1V226M125AC  | TDK                         | CAP, CERM, 22 uF, 35 V, +/- 20%, JB, 0805                                                                        | 0805                                         |
| 18     | D1                      | 1        | 100V    | B1100B-13-F         | Diodes Inc.                 | Diode, Schottky, 100 V, 1 A, SMB                                                                                 | SMB                                          |
| 19     | D2                      | 1        | 200V    | MBRD20200CT-13      | Diodes Inc.                 | Diode, Schottky, 200 V, 10 A, AEC-Q101, DPAK                                                                     | DPAK                                         |
| 20     | D3                      | 1        | 600V    | Z4DGP406L-HF        | Comchip Technology          | Diode, P-N-Bridge, 600 V, 4 A, Z4-D                                                                              | Z4-D                                         |
| 21     | D4                      | 1        | 150V    | SMCJ150A-TP         | Micro Commercial Components | Diode, TVS, Uni, 150 V, 1500 W, SMC                                                                              | SMC                                          |
| 22     | D5                      | 1        | 1000V   | MRA4007T3G          | ON Semiconductor            | Diode, Standard Recovery Rectifier, 1000 V, 1 A, AEC-Q101, SMA                                                   | SMA                                          |
| 23     | D6                      | 1        | 150V    | ES1C-13-F           | Diodes Inc.                 | Diode, Superfast Rectifier, 150 V, 1 A, SMA                                                                      | SMA                                          |
| 24     | J1, J2, J3              | 3        |         | ED555/2DS           | On-Shore Technology         | Terminal Block, 3.5mm Pitch, 2x1, TH                                                                             | 7.0x8.2x6.5mm                                |
| 25     | L1                      | 1        | 33uH    | 7447713330          | Würth Elektronik            | Inductor, Shielded Drum Core, Ferrite, 33 uH, 1.35 A, 0.17 ohm, SMD                                              | SMD                                          |
| 26     | L2                      | 1        | 1mH     | 744822301           | Würth Elektronik            | Coupled inductor, 1 mH, 3 A, 0.035 ohm, TH                                                                       | 17.5x22x13 mm                                |
| 27     | Q1                      | 1        | 600V    | IPD60R385CPATMA1    | Infineon Technologies       | MOSFET, N-CH, 600 V, 9 A, DPAK                                                                                   | DPAK                                         |
| 28     | R1                      | 1        | 34.8    | RT0805BRD0734R8L    | Yageo America               | RES, 34.8, 0.1%, 0.125 W, 0805                                                                                   | 0805                                         |
| 29     | R2                      | 1        | 33      | CRCW080533R0JNEA    | Vishay-Dale                 | RES, 33, 5%, 0.125 W, 0805                                                                                       | 0805                                         |
| 30     | R3                      | 1        | 86.6k   | CRCW060386K6FKEA    | Vishay-Dale                 | RES, 86.6 k, 1%, 0.1 W, 0603                                                                                     | 0603                                         |
| 31     | R4                      | 1        | 0       | CRCW06030000Z0EA    | Vishay-Dale                 | RES, 0, 5%, 0.1 W, 0603                                                                                          | 0603                                         |
| 32     | R5                      | 1        | 1.47k   | CRCW06031K47FKEA    | Vishay-Dale                 | RES, 1.47 k, 1%, 0.1 W, 0603                                                                                     | 0603                                         |
| 33     | R6                      | 1        | 200k    | CRCW0603200KFKEA    | Vishay-Dale                 | RES, 200 k, 1%, 0.1 W, 0603                                                                                      | 0603                                         |
| 34     | R7                      | 1        | 28.7k   | CRCW060328K7FKEA    | Vishay-Dale                 | RES, 28.7 k, 1%, 0.1 W, 0603                                                                                     | 0603                                         |
| 35     | R8                      | 1        | 3.01k   | CRCW06033K01FKEA    | Vishay-Dale                 | RES, 3.01 k, 1%, 0.1 W, 0603                                                                                     | 0603                                         |
| 36     | R9                      | 1        | 1.00k   | CRCW06031K00FKEA    | Vishay-Dale                 | RES, 1.00 k, 1%, 0.1 W, 0603                                                                                     | 0603                                         |
| 37     | R10                     | 1        | 0.2     | CSR1206FKR200       | Stackpole Electronics Inc   | RES, 0.2, 1%, 0.5 W, 1206                                                                                        | 1206                                         |
| 38     | R11                     | 1        | 10.7k   | CRCW060310K7FKEA    | Vishay-Dale                 | RES, 10.7 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603                                                                   | 0603                                         |
| 39     | R12                     | 1        | 49.9k   | CRCW060349K9FKEA    | Vishay-Dale                 | RES, 49.9 k, 1%, 0.1 W, 0603                                                                                     | 0603                                         |
| 40     | R13, R14                | 2        | 10.0k   | CRCW060310K0FKEA    | Vishay-Dale                 | RES, 10.0 k, 1%, 0.1 W, 0603                                                                                     | 0603                                         |
| 41     | R15                     | 1        | 20.5    | RT0805BRD0720R5L    | Yageo America               | RES, 20.5, 0.1%, 0.125 W, 0805                                                                                   | 0805                                         |
| 42     | R16                     | 1        | 1.6Meg  | CRCW08051M60JNEA    | Vishay-Dale                 | RES, 1.6 M, 5%, 0.125 W, AEC-Q200 Grade 0, 0805                                                                  | 0805                                         |
| 43     | R17                     | 1        | 49.9    | CRCW060349R9FKEA    | Vishay-Dale                 | RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603                                                                     | 0603                                         |
| 44     | R18                     | 1        | 10.0    | CRCW060310R0FKEAHP  | Vishay-Dale                 | RES, 10.0, 1%, 0.25 W, AEC-Q200 Grade 0, 0603                                                                    | 0603                                         |
| 45     | T1                      | 1        | 105uH   | RLTI-1274           | Renco Electronics           | Transformer, 105 uH, TH                                                                                          | 890x1100mil                                  |
| 46     | TP1, TP2, TP3, TP6, TP7 | 5        |         | 5000                | Keystone                    | Test Point, Miniature, Red, TH                                                                                   | Red Miniature Testpoint                      |
| 47     | TP4, TP5, TP8           | 3        |         | 5001                | Keystone                    | Test Point, Miniature, Black, TH                                                                                 | Black Miniature Testpoint                    |
| 48     | U1                      | 1        |         | TLV1117-33IDCY      | Texas Instruments           | Single-Output LDO, 800mA, Fixed (3.3), Internal Current Limit, Thermal Overload Protection, DCY0004A (SOT-223-4) | DCY0004A                                     |
| 49     | U2                      | 1        |         | UCC28742DBVR        | Texas Instruments           | High-Efficiency Low-Cost Flyback Controller with Secondary-Side Regulation, DBV0006A (SOT-23-6)                  | DBV0006A                                     |
| 50     | U3                      | 1        |         | FOD817A             | Fairchild Semiconductor     | Optocoupler, 5 kV, 80-160% CTR, TH                                                                               | DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm |
| 51     | U4                      | 1        |         | LMV431AIMF          | Texas Instruments           | Low-Voltage (1.24V) Adjustable Precision Shunt Regulator, 3-pin SOT-23                                           | MF03A                                        |
| 52     | XF1                     | 1        | TR5     | 56000001009         | Littelfuse                  | Fuse Holder, TR5, TH                                                                                             | TR5 Fuse Holder                              |

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