

PMP30487 REV A Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|----------------------|----------|---------|--------------------|---------------------------|--|---|
| C2, C5, C6, C9 | 4 | 0.1uF | GRM188R72A104KA35D | MuRata | CAP, CERM, 0.1 μ F, 100 V,+/- 10%, X7R, 0603 | 0603 |
| C3, C8 | 2 | 180uF | PCR1H181MCL1GS | Nichicon | CAP, Aluminum Polymer, 180 μ F, 50 V,+/- 20%, 0.019 ohm, SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm SMD | SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm |
| C4, C7 | 2 | 10uF | GRM32ER71H106KA12L | MuRata | CAP, CERM, 10 μ F, 50 V,+/- 10%, X7R, 1210 | 1210 |
| C10, C11, C24 | 3 | 2.2uF | GRM32ER72A225KA35L | MuRata | CAP, CERM, 2.2 μ F, 100 V,+/- 10%, X7R, 1210 | 1210 |
| C14, C18 | 2 | 220pF | GRM188R71H221KA01D | MuRata | CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0603 | 0603 |
| C15, C21 | 2 | 100pF | GRM1885C1H101JA01D | MuRata | CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603 | 0603 |
| C16 | 1 | 0.1uF | GRM188R71E104KA01D | MuRata | CAP, CERM, 0.1 μ F, 25 V,+/- 10%, X7R, 0603 | 0603 |
| C17 | 1 | 0.033uF | GRM188R71E333KA01D | MuRata | CAP, CERM, 0.033 μ F, 25 V,+/- 10%, X7R, 0603 | 0603 |
| C19 | 1 | 1uF | GRM188R71E105KA12D | MuRata | CAP, CERM, 1 μ F, 25 V,+/- 10%, X7R, 0603 | 0603 |
| C20 | 1 | 1000pF | GRM188R71H102KA01D | MuRata | CAP, CERM, 1000 pF, 50 V,+/- 10%, X7R, 0603 | 0603 |
| C22 | 1 | 0.047uF | GRM188R71E473KA01D | MuRata | CAP, CERM, 0.047 μ F, 25 V,+/- 10%, X7R, 0603 | 0603 |
| C23 | 1 | 4.7uF | GRM188Z71C475KE21D | MuRata | CAP, CERM, 4.7 μ F, 16 V,+/- 10%, X7R, 0603 | 0603 |
| C26 | 1 | 0.22uF | GRM188R71H224KAC4D | MuRata | CAP, CERM, 0.22 μ F, 50 V,+/- 10%, X7R, 0603 | 0603 |
| D1 | 1 | 100V | FSV8100V | Fairchild Semiconductor | Diode, Schottky, 100 V, 8 A, AEC-Q101, TO-277A | TO-277A |
| J1, J2 | 2 | | ED555/2DS | On-Shore Technology | Terminal Block, 3.5mm Pitch, 2x1, TH | 7.0x8.2x6.5mm |
| J3, J4 | 2 | | 0022284023 | Molex | Header, 2.54mm, 2x1, Tin, TH | Header, 2.54mm, 2x1, TH |
| L1 | 1 | 47uH | YA9010-BE* | Coilcraft | Coupled inductor, 47 μ H, 6.9 A sat, 0.075 ohm, SMD | 15x15mm |
| Q1 | 1 | 100V | BSC098N10NS5 | Infineon Technologies | MOSFET, N-CH, 100 V, 60 A, PG-TDSON-8 | PG-TDSON-8 |
| R1 | 1 | 49.9 | CRCW060349R9FKEA | Vishay-Dale | RES, 49.9, 1%, 0.1 W, 0603 | 0603 |
| R3 | 1 | 100k | CRCW0805100KFKEA | Vishay-Dale | RES, 100 k, 1%, 0.125 W, 0805 | 0805 |
| R4 | 1 | 3.65k | CRCW06033K65FKEA | Vishay-Dale | RES, 3.65 k, 1%, 0.1 W, 0603 | 0603 |
| R5, R7, R100 | 3 | 0.25 | CSRN2010FKR250 | Stackpole Electronics Inc | RES, 0.25, 1%, 1 W, 2010 | 2010 |
| R6, R18, R19 | 3 | 4.7 | CRCW06034R70JNEA | Vishay-Dale | RES, 4.7, 5%, 0.1 W, 0603 | 0603 |
| R8, R16 | 2 | 10.0k | CRCW060310K0FKEA | Vishay-Dale | RES, 10.0 k, 1%, 0.1 W, 0603 | 0603 |
| R9 | 1 | 249k | CRCW0603249KFKEA | Vishay-Dale | RES, 249 k, 1%, 0.1 W, 0603 | 0603 |
| R10 | 1 | 1.00k | CRCW06031K00FKEA | Vishay-Dale | RES, 1.00 k, 1%, 0.1 W, 0603 | 0603 |
| R11 | 1 | 4.99k | CRCW06034K99FKEA | Vishay-Dale | RES, 4.99 k, 1%, 0.1 W, 0603 | 0603 |
| R13 | 1 | 0 | CRCW06030000Z0EA | Vishay-Dale | RES, 0, 5%, 0.1 W, 0603 | 0603 |
| R14 | 1 | 49.9k | CRCW060349K9FKEA | Vishay-Dale | RES, 49.9 k, 1%, 0.1 W, 0603 | 0603 |
| R15 | 1 | 2.80k | CRCW06032K80FKEA | Vishay-Dale | RES, 2.80 k, 1%, 0.1 W, 0603 | 0603 |
| R17 | 1 | 84.5k | CRCW060384K5FKEA | Vishay-Dale | RES, 84.5 k, 1%, 0.1 W, 0603 | 0603 |
| TP1 | 1 | | 5003 | Keystone | Test Point, Miniature, Orange, TH | Orange Miniature Testpoint |
| TP3 | 1 | Red | 5000 | Keystone | Test Point, Miniature, Red, TH | Red Miniature Testpoint |
| TP4 | 1 | Blue | 5117 | Keystone | Test Point, Miniature, Blue, TH | Blue Miniature Testpoint |
| TP5, TP6, TP10, TP12 | 4 | | 5002 | Keystone | Test Point, Miniature, White, TH | White Miniature Testpoint |
| TP8, TP9, TP11 | 3 | Black | 5001 | Keystone | Test Point, Miniature, Black, TH | Black Miniature Testpoint |
| U1 | 1 | | LM5022MM/NOBP | Texas Instruments | 60V Low Side Controller for Boost and SEPIC, 10-pin MSOP | MUB10A |

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|-------------------|-----------------|--------------|-------------------|---------------------|--|-------------------------|
| U2 | 1 | | TLV2711DBVR | Texas Instruments | 550 uA/Ch, 3 MHz, Rail-to-Rail Output Operational Amplifier, 2.7 to 16 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br) | DBV0005A |

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