

PMP4925_REVB BOM

| COUNT | RefDes | Value | Description | Size | Part Number | Mfr |
|-------|------------------------|--------------|--|--------------------|------------------|-------------------------|
| 4 | C1, C2, C3, C4 | 2.2uF | Capacitor, Ceramic, 100-V, X7R, 20% | 1210 | C3225X7R2A225M | TDK |
| 1 | C11 | 22uF | Capacitor, Aluminum, 16V, 20% | 0.201 x 0.262 inch | EEVFK1C220R | Panasonic |
| 2 | C13, C14 | 1uF | Capacitor, Ceramic, 16V, X7R, 20% | 0603 | C1608X7R1C105M | TDK |
| 1 | C15 | 0.047uF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | C1608X7R1H103K | TDK |
| 1 | C16 | 220pF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | C1608X7R1H221K | TDK |
| 1 | C17 | 4700pF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | C1608X7R1H472K | TDK |
| 1 | C18 | 1000pF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | C1608X7R1H102K | TDK |
| 1 | C19 | 1uF | Capacitor, Ceramic, 50V, X7R, 15% | 1206 | Std | Std |
| 1 | C31 | 1000pF | Capacitor, Ceramic, 2kV, C0G, 10% | 1812 | Std | Std |
| 2 | C5, C10 | 22pF | STD | 0603 | STD | TDK |
| 1 | C6 | 0.047uF | Capacitor, Ceramic, 250-V, X7R | 1206 | C3216X7R2E473M | TDK |
| 1 | C7 | 100uF | Capacitor, Aluminum, 25V, 20%, FK Series | 0.217 x 0.169 | EEVFK1E101P | Panasonic |
| 1 | C8 | 10uF | Capacitor, Ceramic, 25-V, X7R, 20% | 1210 | C3225X7R1E106MT | TDK |
| 1 | C9 | 0.1uF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | C1608X7R1H104K | TDK |
| 6 | D1, D2, D3, D5, D6, D8 | MMSD914 | Diode, Switching, 100-V, 200-mA, 225-mW | SOD-123 | MMSD914T1 | On Semi |
| 2 | D4, D7 | 6.8V | Diode, Zener, 6.8-V | SOT23 | BZX84C6V8LT1 | ON Semiconductor |
| 1 | D9 | BAV99 | Diode, Dual Ultra Fast, Series, 200-mA, 70-V | SOT23 | BAV99 | Fairchild |
| 2 | J1, J2 | ED1514 | Terminal Block, 2-pin, 6-A, 3.5mm | 0.27 x 0.25 | ED1514 | OST |
| 1 | L1 | 33uH | Inductor, SMT Power, 7A, 3 milliohm | 1.100 x 1.100 inch | SER2918H-333KL | Coilcraft |
| 1 | L2 | 1mH | Inductor, SMT, 60mA | 0.244 x 0.244 inch | PG0087.105NL | Pulse |
| 2 | Q1, Q3 | FZT653 | Transistor, NPN, VCE 100V, 1A | SOT223 | FZT653 | Diodes Inc |
| 2 | Q2, Q7 | IRF7495 | MOSFET, N-Chan, 100V, 22 miliohm | SO8 | IRF7495 | IR |
| 1 | Q4 | IRF6216 | MOSFET, P-ch, 150-V, 2.2-A, 240-mililoHms | SO8 | IRF6216 | International Rectifier |
| 2 | Q5, Q6 | IRF7494 | MOSFET, N-Chan, 150V, 44 miliohm, 5.2A | SO8 | IRF7494 | IR |
| 2 | R1, R3 | 4.99k | Resistor, Chip, 1/4W, 5% | 1210 | Std | Std |
| 1 | R10 | 2.37k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R11 | 7.5k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R12 | 80.6k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 2 | R13, R14 | 69.8k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R16 | 0 | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R17 | 2k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R19 | 100k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R2 | 1k | Resistor, Chip, 1/10W, yy% | 0805 | Std | Std |
| 1 | R21 | 15.8k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 2 | R4, R20 | 10k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 3 | R5, R15, R18 | 1k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R6 | 2.2 | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 2 | R7, R9 | 121k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R8 | 4.64k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | T1 | PA1005.050NL | XFMR, Current Sense | 0.284 x 0.330 inch | PA1005.050NL | Pulse |
| 1 | T2 | 100 uH | Transformer, Custom, Forward | 26.9 x 26.9mm | DCT25EFD-UxxH015 | TDK |
| 2 | TP1, TP2 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5000 | Keystone |
| 2 | TP3, TP4 | 5001 | Test Point, Black, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5001 | Keystone |
| 1 | TP5 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 | 5000 | Keystone |
| 1 | U1 | UCC2897APW | IC, Current-Mode Active Clamp PWM Controller | PW20 | UCC2897APW | Texas Instruments |
| 1 | U2 | TCMT1107 | IC, Photocoupler, CTR = 80% - 160% | MF4 | TCMT1107 | Vishay |
| 1 | U3 | TL431AIDBZ | IC, Precision Adjustable Shunt Regulator | SOT23-3 | TL431AIDBZ | TI |

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