

PMP8790_REVB BOM

| COUNT | RefDes | Value | Description | Size | Part Number | MFR |
|-------|------------------------|-------------------------|--|--------------------|-------------------------|-------------|
| 4 | C1, C2, C3, C4 | 2.2uF | Capacitor, Ceramic, 100V, X7R, 15% | 1210 | STD | STD |
| 2 | C10, C13 | 0.1uF | Capacitor, Ceramic, 50V, X7R, 15% | 0603 | STD | STD |
| 1 | C100 | 3300pF | Capacitor, Ceramic, 50V, X7R, 15% | 0603 | STD | STD |
| 1 | C11 | 33uF | Capacitor, Aluminum, 25V, ±20% | 0.201 x 0.262 inch | EEVFK1E330UR | Panasonic |
| 1 | C12 | 1000pF | Capacitor, Ceramic, 3kV, NP0, C0G, 10% | 1808 | Std | Std |
| 1 | C14 | 1000pF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | STD | STD |
| 1 | C15 | 1uF | Capacitor, Ceramic, 16V, X7R, 10% | 0603 | STD | STD |
| 1 | C16 | 100pF | Capacitor, Ceramic, 50V, C0G, 5% | 0603 | STD | STD |
| 2 | C17, C18 | 0.047uF | Capacitor, Ceramic, 16V, X7R, 15% | 0603 | STD | STD |
| 1 | C19 | 1000pF | Capacitor, Ceramic, 50V, X7R, 15% | 0603 | STD | STD |
| 1 | C20 | 4700pF | Capacitor, Ceramic, 50V, X7R, 15% | 0603 | STD | STD |
| 1 | C21 | 4.7uF | Capacitor, Ceramic, 16V, X7R, 10% | 0603 | STD | STD |
| 1 | C5 | 0.047uF | Capacitor, Ceramic, 200V, X7R, 15% | 1206 | STD | STD |
| 3 | C6, C7, C8 | 47uF | Capacitor, Ceramic, 6.3V, X5R, 15% | 1206 | STD | STD |
| 1 | C9 | 470uF | CAP ALUM 470UF 6.3V 20% SMD | 0.328 x 0.390 inch | EEE-FK0J471GP | Panasonic |
| 5 | D1, D4, D5, D100, D102 | MMDL914T1 | Diode, Switching, 100-V, 200-mA, 200-mW, | SOD-323 | MMDL914T1 | On Semi |
| 1 | D101 | 10V | DIODE ZENER 10V 500MW SOD123 | SOD123 | MMSZ5240B | ON Semi |
| 1 | D7 | BAT54SWT1G | Diode, Dual Schottky, 200mA, 30V | SOT323 | BAT54SWT1G | On Semi |
| 5 | J1, J2, J5, J6, J7 | 8600-0-05-01-00-00-03-0 | Header, Single pin | 0.072 x 1 inch | 8600-0-05-01-00-00-03-0 | Mill-Max |
| 2 | J3, J4 | 8952-0-05-01-00-00-03-0 | Header, Single pin | 0.125 x 1 inch | 8952-0-05-01-00-00-03-0 | Mill-Max |
| 1 | L1 | 3.7uH | Inductor, SMT, 13A, 3-milliohm | 13.8 X 13.2 MM | MLC1565-372ML | Coilcraft |
| 1 | L2 | 1mH | INDUCTOR POWER 1000UH 85MA 2220 | 2020 | NLC565050T-102K-PF | TDK |
| 1 | Q1 | ZXMP10A17E6 | MOSFET P-CH TRENCH -100V SOT23-6 | SOT23-6 | ZXMP10A17E6TA | Diodes Inc. |
| 1 | Q100 | MMBT3904 | TRANSISTOR, NPN | SOT-23 | MMBT3904 | STD |
| 1 | Q2 | SI4056DY | MOSFET N-CH 100V D-S 8SOIC | SO8 | SI4056DY | Vishay |
| 1 | Q4 | CSD17501Q5A | MOSFET, N-Chan, 30V, 3 milli-ohm | QFN-8 POWER | CSD17501Q5A | TI |
| 1 | Q5 | CSD18502Q5B | MOSFET, N-Chan, 40V, 2 milli-ohm | QFN-8 POWER | CSD18502Q5B | TI |
| 1 | Q6 | 2N7002W | MOSFET, Nch, 60V, 115mA | SOT323 [SC70] | 2N7002W | Diodes |
| 2 | R10, R11 | 3.01k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R100 | 10 | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R102 | 4.7 | Resistor, Chip, 0.5W, 5% | 2010 | STD | STD |
| 1 | R12 | 110k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R13 | 200 | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 2 | R14, R21 | 0 | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R15 | 49.9 | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 2 | R17, R101 | 301 | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 3 | R18, R22, R23 | 100k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R25 | 6.04k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 3 | R3, R20, R24 | 10k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R4 | 0.056 | Resistor, 1W, 5% | 2512 | STD | STD |
| 3 | R5, R16, R19 | 1k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R6 | 150k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R7 | 38.3k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R8 | 15k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | R9 | 86.6k | Resistor, Chip, 1/16W, 1% | 0603 | STD | STD |
| 1 | T1 | PH0810.008CNL | XFMR, 160W | 21.6x24.65 mm | PH0810.008CNL | Pulse |
| 1 | U1 | UCC2897APW | IC, Current-Mode Active Clamp PWM Controller | PW20 | UCC2897APW | TI |
| 1 | U2 | TCMT1107 | IC, Photocoupler | MF4 | TCMT1107 | Vishay |
| 1 | U3 | TLV431A | IC, Low-Voltage Adjustable Shunt Regulator | SOT23-3 | TLV431AIDBZ | TI |

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