

Filename: PMP2501REVC_bom.xls

Date: 06/17/2008

PMP2501REVC BOM

| COUNT | RefDes | Value | Description | Size | Part Number | Mfr |
|-------|--------|-----------|--|--------------------|------------------|---------------|
| 1 | C1 | 68pF | Capacitor, Ceramic, 50V, X7R, 15% | 0603 | Std | TDK |
| 1 | C2 | 4.7nF | Capacitor, Ceramic, 50-V, X7R, 15% | 0603 | Std | TDK |
| 1 | C3 | 470pF | Capacitor, Ceramic, 50V, X7R, 15% | 0603 | Std | TDK |
| 1 | C4 | 0.1uF | Capacitor, Ceramic, 50-V, X7R, 15% | 0603 | Std | TDK |
| 1 | C5 | 33pF | Capacitor, Ceramic, 50V, X7R, 15% | 0603 | std | TDK |
| 1 | C6 | 0.1uF | Capacitor, Ceramic, 50V, X7R, 15% | 0805 | std | TDK |
| 1 | C7 | 100n | Capacitor, Ceramic, vvV, [temp], [tol] | 0603 | GRM39yyyxxxKvvvA | muRata |
| 1 | C8 | 100pF | Capacitor, Ceramic, 50V, X7R, 15% | 0603 | Std | TDK |
| 5 | C9 | 3.3uF | Capacitor, Ceramic, 50V, X7R, 15% | 1210 | Std | TDK, MLCC |
| | C10 | 3.3uF | Capacitor, Ceramic, 50V, X7R, 15% | 1210 | Std | TDK, MLCC |
| | C11 | 3.3uF | Capacitor, Ceramic, 50V, X7R, 15% | 1210 | Std | TDK, MLCC |
| | C12 | 3.3uF | Capacitor, Ceramic, 50V, X7R, 15% | 1210 | Std | TDK, MLCC |
| | C13 | 3.3uF | Capacitor, Ceramic, 50V, X7R, 15% | 1210 | Std | TDK, MLCC |
| 1 | D1 | BZX84C6V8 | Diode, Zener, 6.8-V, 225mW | SOT23 | MMBZ5235BLT1 | Motorola |
| 1 | D2 | 10BQ100 | Diode, Schottky, 1A, 100V | SMB | 10BQ100 | iR |
| 1 | D3 | BAT54 | Diode, Schottky, 200-mA, 30-V | SOT23 | BAT54 | Vishay-Liteon |
| 2 | D4 | BAS16 | Diode, Switching, 150-mA, 75-V, 350mW | SOT23 | BAS16 | Vishay-Liteon |
| 1 | D5 | BZX84C51 | Diode, Zener, 51-V, 225mW | SOT23 | MMBZ5262BLT1 | Motorola |
| | D6 | BAS16 | Diode, Switching, 150-mA, 75-V, 350mW | SOT23 | BAS16 | Vishay-Liteon |
| 2 | D7 | Red | Diode, LED, RBG, 3.3Vmax, 0.35A | | | Lumileds |
| | D8 | Red | Diode, LED, RBG, 3.3Vmax, 0.35A | | | Lumileds |
| 2 | J1 | ED1514 | Terminal Block, 2 pin, 6A, 3.5mm | 0.27 x 0.25 | ED1514 | OST |
| | J2 | ED1514 | Terminal Block, 2 pin, 6A, 3.5mm | 0.27 x 0.25 | ED1514 | OST |
| 1 | J3 | PTC36DAAN | Header, 2x3-pin, 100mil spacing (36-pin strip) | 0.20 inch x 0.30 | PTC36DAAN | Sullins |
| 1 | J4 | PTC36SAAN | Header, 2-pin, 100mil spacing (36-pin strip) | 0.100 x 2 | PTC36SAAN | Sullins |
| 1 | L1 | 22uH | Inductor, Power, 4A, 39.5milliohm | 0.484 x 0.484 inch | MSS1278-223ML | Coilcraft |
| 1 | Q1 | iRFR5410 | MOSFET, P-ch, -100-V, -8.2-A, 66-W | DPAK | iRFR5410 | iR |
| 1 | Q2 | Si2316DS | MOSFET, N-ch, 30V, 2.6A, 85 milliohms | SOT23 | Si2316DS | Vishay |
| 1 | R1 | 10k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R2 | 66.5K | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| 1 | R3 | 22K | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| 2 | R4 | 1K | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| 2 | R5 | 3.83k | Resistor, Chip, 1/2W, yy% | 1812 | Std | Std |
| | R6 | 3.83k | Resistor, Chip, 1/2W, yy% | 1812 | Std | Std |
| 1 | R7 | 46.4k | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| 1 | R8 | 1k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |

| | | | | | | |
|---|------|-----------|--|--------------------|-----------|----------|
| 1 | R10 | 0.02 | Resistor, Chip, 1W, 1% | 2512 | std | STD |
| | R12 | 1k | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| 1 | R14 | 3.01 | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| 1 | R15 | 10k | Resistor, Chip, 10K-Ohms, 1/16-W, 1% | 0603 | Std | Std |
| 3 | R16 | 1 | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| | R17 | 1 | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| | R18 | 1 | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| 1 | R100 | 10k | Resistor, Chip, 1/16-W, 1% | 0603 | Std | Std |
| | TP1 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5000 | Keystone |
| 5 | TP2 | 5001 | Test Point, Black, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5001 | Keystone |
| | TP3 | 5001 | Test Point, Black, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5001 | Keystone |
| | TP4 | 5001 | Test Point, Black, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5001 | Keystone |
| 2 | TP5 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5000 | Keystone |
| | TP8 | 5001 | Test Point, Black, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5001 | Keystone |
| | TP9 | 5001 | Test Point, Black, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5001 | Keystone |
| 1 | U1 | TPS40200D | IC, Low Cost Sync Buck Controller | SO-8 | TPS40200D | TI |
| 1 | U2 | LM358D | IC, Dual Operational Amplifiers | SO8 | LM358D | TI |

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

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