

Filename: PMP3582_REVA_bom.xls

Date: 05/27/2009

PMP3582_REVA BOM

| COUNT | RefDes | Value | Description | Size | Part Number | MFR |
|-------|--------|-----------|---|---------------------|---------------|------------|
| 2 | C1 | 0.1uF | Capacitor, Leaded, Film, 0.10 uF, 275 VAC | 6.0 x 12.0 x 17.9mm | 1779 410M2F | Vishay |
| | C2 | 0.1uF | Capacitor, Leaded, Film, 0.10 uF, 275 VAC | 6.0 x 12.0 x 17.9mm | 1779 410M2F | Vishay |
| 2 | C3 | 1nF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | Std | Std |
| 1 | C4 | 10nF | Capacitor, Ceramic, 25V, X7R, 10% | 0603 | Std | Std |
| | C5 | 1nF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | Std | Std |
| 1 | C6 | 22uF | Capacitor, Aluminum, 25V, 20% | 5mm dia | Std | Std |
| 2 | C7 | 0.1uF | Capacitor, Ceramic, 50V, X7R, 10% | 0805 | Std | Std |
| 2 | C8 | 10nF | Capacitor, Ceramic disc, 200V | 5mm dia | Std | Std |
| 1 | C9 | 2.2nF, Y1 | Capacitor, Ceramic Disk, Y1 | 7mm dia | Std | Std |
| | C10 | 10nF | Capacitor, Ceramic disc, 200V | 5mm dia | Std | Std |
| 1 | C11 | 220uF | Capacitor, Aluminum, 100V, 20%, Low ESR | 12.5 x 31.5mm | UHE2A221MHD | Nichicon |
| 1 | C12 | 2.2uF | Capacitor, Ceramic, 100V, X7R, 10% | 1812 | Std | Std |
| 1 | C13 | 0.47uF | Capacitor, Ceramic, 25V, X7R, 10% | 0805 | Std | Std |
| | C14 | 0.1uF | Capacitor, Ceramic, 50V, X7R, 10% | 0805 | Std | Std |
| 4 | D1 | 1N4007 | Diode, 1000V, 1A | DO-41 | 1N4007 | Diodes |
| | D2 | 1N4007 | Diode, 1000V, 1A | DO-41 | 1N4007 | Diodes |
| | D3 | 1N4007 | Diode, 1000V, 1A | DO-41 | 1N4007 | Diodes |
| | D4 | 1N4007 | Diode, 1000V, 1A | DO-41 | 1N4007 | Diodes |
| 1 | D5 | 18V, 1W | Diode, Zener, 18-V, 1W | DO-41 | 1N4746A | Vishay |
| 1 | D6 | BAT54S | Diode, Dual Schottky, 200-mA, 30-V | SOT23 | BAT54S | Vishay |
| 2 | D7 | FR107 | Diode, Fast, 1000V, 1A | DO-41 | FR107 | TSC |
| 1 | D8 | UF4007 | Diode, Ultrafast, 1000V, 1A | DO-41 | UF4007 | Vishay |
| 1 | D9 | UF5406 | Diode, Ultrafast, 600V, 3A | D0-201AD | UF5406 | Vishay |
| | D10 | FR107 | Diode, Fast, 1000V, 1A | DO-41 | FR107 | TSC |
| 1 | D11 | 12V | Diode, Zener, 12-V, 500-mW | DO-35 | 1N5242B | On Semi |
| 1 | D12 | 68V | Diode, Zener, 68-V, 500-mW | DO-35 | 1N5266B | On Semi |
| 1 | F1 | 1A | Fuse | 5x20mm | 0215 001.MXEP | Littelfuse |
| 1 | L1 | 12mH | Common mode Inductor, 0.5A, 1ohm | UT20 | 86401 | Prismatic |
| 1 | L2 | 500uH | Inductor, 0.5A | 0.315 DIA inch | 24501 | Prismatic |
| 1 | Q1 | FQP8N60C | Transistor, NFET, 600V, 8A | TO-220AB | FQP8N60C | Fairchild |
| 3 | R1 | 220K | Resistor, Chip, 1/4W, 5% | 1206 | Std | Std |
| | R2 | 220K | Resistor, Chip, 1/4W, 5% | 1206 | Std | Std |
| | R3 | 220K | Resistor, Chip, 1/4W, 5% | 1206 | Std | Std |
| 1 | R4 | 68.1K | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 1 | R5 | 0 | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 1 | R6 | 10 | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |

| | | | | | | |
|---|-----|-----------|--|--------------------|---------------|----------|
| 1 | R7 | 100 | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 1 | R8 | 0.22 | Resistor, Chip, 1/2W, 5% | 2010 | Std | Std |
| 1 | R9 | 15 | Resistor, Chip, 1/4W, 5% | 1206 | Std | Std |
| 1 | R10 | 27K | Resistor, Power, 2W, ± 5% | TH-990 | MOS2CT52R273J | KOA |
| 1 | R11 | 22 | Resistor, Chip, 1/4W, 5% | 1206 | Std | Std |
| 1 | R12 | 120K | Resistor, Power, 2W, ± 5% | TH-990 | MOS2CT52R124J | KOA |
| 1 | R13 | 10K | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 1 | R14 | 10K | Resistor, Chip, 1/4W, 5% | 1206 | Std | Std |
| 1 | R15 | 10K | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 1 | R16 | 51.1K | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 1 | R17 | 14.7K | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 2 | R18 | 1K | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 1 | R19 | 100 | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| | R20 | 1K | Resistor, Chip, 1/10W, 1% | 0603 | Std | Std |
| 2 | R21 | 0.47 | Resistor, Chip, 1/4W, 5% | 1206 | Std | Std |
| | R22 | 0.47 | Resistor, Chip, 1/4W, 5% | 1206 | Std | Std |
| 1 | RT1 | 275V | MOV, 275V | 10mm dia | Std | Std |
| 1 | T1 | EI-28 | Transformer, EI-28 | EI-28 | Custom | |
| 1 | U1 | UCC28600D | IC, Quasi-Resonant Flyback Green Mode Controller | SO8 | UCC28600D | TI |
| 1 | U2 | PC817A | IC, Optocoupler | DIP-4A | PC817A | Sharp |
| 1 | U3 | TL103WID | IC, Dual Op Amp With Internal Reference | SO8 | TL103WID | TI |
| 1 | HS1 | 513201 | Heatsink, TO-220, Vertical-mount, 5°C/W | 0.5x1.38in. | 513201 | Aavid |
| 1 | J1 | 4300.0097 | Header, 2-pin, 5mm spacing | 0.197 inch x 2 | ED1660 | OST |
| 1 | J2 | D120/2DS | Terminal Block, 2-pin, 15-A, 5.1mm | 0.40 x 0.35 inch | D120/2DS | OST |
| 1 | TP1 | 5001 | Test Point, Black, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5001 | Keystone |

- 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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