Filename: PMP5732_RevB bom.xls Date: 08/02/2011

PMP5732 REV_B BOM

| COUNT | RefDes | Value | Description | Size | Part Number | MFR |
|-------|--------|-----------|---|--------------------|--------------------|---------------------|
| 1 | C1 | 0.22uF | Capacitor, Polypropelene film, 310VAC | 1.024 X 0.335 inch | BFC233820224 | Vishay |
| 1 | C2 | 10nF | Capacitor, Ceramic, 500V, X7R, 10% | 1812 | | |
| 1 | C3 | 0.22uF | Capacitor, X2 Class, 0.22uF, 275V, 20% | 0.709 x 0.236 inch | R46KI322050M2M | Kemet (Arcotronics) |
| 3 | C4 | 1200uF | Capacitor, Aluminum Electrolytic, 1200uF, 50V | 0.492 inch | EEUFC1H122S | Panasonic |
| | C5 | 1200uF | Capacitor, Aluminum Electrolytic, 1200uF, 50V | 0.492 inch | EEUFC1H122S | Panasonic |
| | C101 | 1200uF | Capacitor, Aluminum Electrolytic, 1200uF, 50V | 0.492 inch | EEUFC1H122S | Panasonic |
| 3 | C6 | .1u | Capacitor, Ceramic, 16-V, [temp], [tol] | 0805 | std | muRata |
| 2 | C7 | 100uF | Capacitor, Aluminum Electrolytic, 100uF, 35V | 0.248 inch | EKZM350ELL101MF11D | Nippon ChemiCon |
| 1 | C8 | 47uF | Capacitor, Aluminum Electrolytic, 47uF, 35V | 0.197 inch | EEEFK1V470AP | Panasonic |
| | C9 | .1u | Capacitor, Ceramic, 16-V, [temp], [tol] | 0805 | std | muRata |
| 1 | C10 | 470pF | CAP 300VAC X1/Y2 | 0.236 x 0.315 inch | VY2471K29Y5SS63V7 | Vishay |
| 1 | C11 | 2.2nF | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | Std | Std |
| 1 | C12 | 56uF | Capacitor, Aluminum Electrolytic, 56uF, 35V | 0.248 inch | EKY-250Exx101MF11D | Nippon ChemiCon |
| 1 | C13 | 10pF | Capacitor, Ceramic, 50V, NP0, 10% | 0603 | Std | muRata |
| | C14 | .1u | Capacitor, Ceramic, 16-V, [temp], [tol] | 0805 | std | muRata |
| 1 | C15 | DNP | Capacitor, Ceramic, 50V, X7R, 10% | 0603 | Std | Std |
| 1 | C16 | 3.3uF | Capacitor, Ceramic, 16V, X7R, 10% | 805 | Std | Std |
| | C17 | 100uF | Capacitor, Aluminum Electrolytic, 100uF, 35V | 0.248 inch | EKZM350ELL101MF11D | Nippon ChemiCon |
| 1 | C18 | 220nF | Capacitor, Ceramic, 50V, X7R, +/-10% | 603 | std | std |
| 1 | D1 | KBP06G | Diode, Bridge Rectifier, 1.5A, 600V | 0.580 x 0.145 inch | KBP06G | Diodes |
| 2 | D2 | BYG10J | Diode, Standard Rectifier, 1.5A, 600V | SMA | BYG10J | Vishay |
| | D3 | BYG10J | Diode, Standard Rectifier, 1.5A, 600V | SMA | BYG10J | Vishay |
| 1 | D4 | US1K | Diode Ultrafast, 1-A, 800-V | SMA | US1K | Diodes Inc. |
| 1 | D5 | MUR1020CT | Diode, Dual Ultrafast Rectifier, 200V, 10A | TO-220 | MUR1020CT | On Semi |
| 2 | D6 | MURA120T3 | Diode, Rectifier, 1A, 200-V | SMA | MURA120T3 | ON |
| 1 | D7 | 18V | Diode, Zener, 1W, 18V | SMA | SMAZ18-13 | Diodes Inc. |
| | D8 | MURA120T3 | Diode, Rectifier, 1A, 200-V | SMA | MURA120T3 | ON |
| 1 | D9 | 39V | Diode, Zener, 39-V | SOT23 | MMBZ5259 | ON |
| 1 | D10 | MBR0520L | Diode, Schottky, 0.5A, 20V | SOD-123 | MBR0520L | Fairchild |
| 1 | D11 | 8.2v | Diode, Zener, 8.2-V, yy-mA, zz-mW, q% | SOT23 | BZX84C8V2 | On Semiconductor |

| 3 | D12 | BAS16 | Diode, Switching, 75V, 200mA | SOT23 | BAS16LT1 | On Semiconductor |
|---|------|-----------|--|--------------------|---------------|------------------|
| | D13 | BAS16 | Diode, Switching, 75V, 200mA | SOT23 | BAS16LT1 | On Semiconductor |
| 1 | F1 | 1A/250V | Fuse, TR5 Series, 1A, 250V | 0.335 | 3701100041 | Wickmann |
| 1 | J1 | ED555/2DS | Terminal Block, 2-pin, 6-A, 3.5mm | 0.27 x 0.25 inch | ED555/2DS | OST |
| 1 | L1 | 1mH | Inductor, SMT, 0.8A, zzmilliohm | 0.51x 0.37 inch | DO3340P-105ML | Coilcraft |
| 1 | L2 | 20mH | Inductor, 0.5 A, 540 milliohm | 0.512 x 0.728 inch | 744822120 | WE |
| 1 | Q1 | SPP11N80 | MOSFET, Nchan, 650V, 8.5A, 930 millohm | TO-220AB | IRFB9N65A | Vishay |
| 1 | Q2 | 3904 | Bipolar, NPN, xx-V, yy-mA, zz-W | SOT23 | MMBT3904 | |
| 2 | R1 | 100K | Resistor, Chip, ¼ W, 5% | 1210 | STD | STD |
| 2 | R2 | 22K | Resistor, Metal -Mite, 2W, ±1% | {Size} | std | Std |
| | R3 | 22K | Resistor, Metal -Mite, 2W, ±1% | {Size} | std | Std |
| | R4 | 100K | Resistor, Chip, ¼ W, 5% | 1210 | STD | STD |
| 1 | R5 | 100K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R6 | 0.022 | Resistor, Chip,1/2W, 1% | 1210 | STD | STD |
| 1 | R7 | 348 | Resistor, Chip, 1/8W, 5% | 1206 | Std | Std |
| 1 | R8 | 2.2 | Resistor, Chip, 1/8W, 5% | 1206 | Std | Std |
| 2 | R9 | 750k | Resistor, Chip, ¼ W, 5% | 1210 | STD | STD |
| 3 | R10 | 1K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 2 | R11 | 75K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| | R12 | 1K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R13 | 6.98K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| | R14 | 750k | Resistor, Chip, ¼ W, 5% | 1210 | STD | STD |
| | R15 | 75K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R16 | 10 | Resistor, Chip, 1/10-W, 1% | 0805 | Std | Std |
| | R17 | 2K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R18 | 10K | Resistor, Chip, 1/10W, yy% | 0805 | Std | Std |
| 1 | R19 | 10K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R20 | 68.1K | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | | 332 | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R22 | 0.5 | Resistor, Chip, 0.5-Ohms, 1-W, 1% | 2512 | Std | Std |
| 1 | R23 | 1.5k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 3 | R24 | 10k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| | R25 | 10k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R26 | 2.49k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| | R27 | 10k | Resistor, Chip, 1/16W, 1% | 0603 | Std | Std |
| 1 | R102 | TBD | Resistor, Chip, 1/10-W, 1% | 0805 | Std | Std |

| 1 | T1 | G084231LF | Transformer, Flyback, 10±% | 0.964 X 1.240 inch | G084231LF | GCI |
|---|-----|-----------|---|--------------------|-----------|----------|
| 5 | TP1 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5000 | Keystone |
| | TP2 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5000 | Keystone |
| | TP3 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5000 | Keystone |
| | TP4 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5000 | Keystone |
| | TP5 | 5000 | Test Point, Red, Thru Hole Color Keyed | 0.100 x 0.100 inch | 5000 | Keystone |
| 1 | U1 | TL103WID | IC, Dual Op Amp With Internal Reference | SO8 | TL103WID | TI |
| 1 | U2 | UCC28810D | IC, LED LIGHTING POWER CONTROLLER | SO8 | UCC28810D | TI |
| 1 | U3 | TCMT1107 | IC, Photocoupler, CTR = 80% - 160% | MF4 | TCMT1107 | Vishay |

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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