

| Filename: BILLOFMATERIALS_bom.xls | | | | | | |
|-----------------------------------|----------------------|------------|--|--------------------|----------------|---------------|
| Date: 07/06/2011 | | | | | | |
| PMP6720 Rev C | | | | | | |
| COUNT | RefDes | Value | Description | Size | Part Number | MFR |
| 1 | C1 | 0p | Capacitor, Ceramic, open uF, vv-V, [temp], [tol] | 0603 | STD | STD |
| 1 | C11 | .1u | Capacitor, Ceramic, 250V, [temp], [tol] | 1206 | STD | STD |
| 3 | C2 C4-5 | 2.2U | Capacitor, Ceramic, 100V, [temp], [tol] | 1210 | STD | STD |
| 1 | C20 | 33u | Capacitor, Aluminum Electrolytic, vvV | 0.248 inch | STD | STD |
| 1 | C21 | 4.7u | Capacitor, Ceramic, 25-V, [temp], [tol] | 1206 | STD | STD |
| 1 | C22 | 1500U | Capacitor, Aluminum, 35V, 20%, | 0.500 x 0.800 | STD | STD |
| 2 | C24-25 | 1u | Capacitor, Ceramic, 16-V, [temp], [tol] | 0805 | STD | STD |
| 4 | C26 C28 C33 C35 | .47u | Capacitor, Ceramic, 0.47uF, 16-V, [temp], [tol] | 0805 | STD | STD |
| 1 | C27 | 100p | Capacitor, Ceramic, vvV, [temp], [tol] | 0603 | STD | STD |
| 1 | C3 | 100U | Capacitor, Aluminum, 100V, 20%, | 0.500 x 0.800 | STD | STD |
| 1 | C30 | .01u | Capacitor, Ceramic, vvV, [temp], [tol] | 0603 | STD | STD |
| 1 | C31 | 47n | Capacitor, Ceramic, 16V, [temp], [tol] | 0603 | STD | STD |
| 1 | C32 | 820p | Capacitor, Ceramic, 16V, [temp], [tol] | 0603 | STD | STD |
| 1 | C6 | .01u | Capacitor, Ceramic, 250V, [temp], [tol] | 1206 | STD | std |
| 10 | C7-10 C16-19 C29 C34 | .1u | Capacitor, Ceramic, .1-uF, 50V, [temp], [tol] | 0603 | STD | muRata |
| 1 | D1 | MMSD4148T1 | Diode, Switching, 75-V, 200-mA, 225-mW, | SOD-123 | MMSD914T1 | OnSemi |
| 4 | D24-27 | MBRB60H100 | Diode, Schottky, 60A, 100V | TO-263AB | MBRB20100CT | On Semi |
| 20 | D2-5 D8-23 | BAT54 | Diode, Schottky, 200-mA, 30-V | SOT23 | BAT54 | Vishay-Liteon |
| 2 | D6-7 | ES1D | Diode, Super Fast Rectifier, xV, yA | 0.220 x 0.115 inch | ES1x | Diodes |
| 1 | L1 | 4.7u | Inductor, SMT Power, yyA, zz milliohm | 1.100 x 1.100 inch | SER29xxx-yyyKL | Coilcraft |
| 1 | Q11 | 2N7002 | MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms | SOT23 | | Diodes |
| 4 | Q1-2 Q7-8 | 3904 | Bipolar, NPN, xx-V, yy-mA, zz-W | SOT23 | STD | STD |
| 4 | Q3-4 Q9-10 | SIR878DP | MOSFET, NChan, 100V, 14 milliohm | PWRPAK S0-8 | SIR890DP | Vishay |
| 4 | Q5-6 Q15-16 | 3906 | Bipolar, PNP, xx-V, yy-mA, zz-W | SOT23 | STD | |
| 1 | R1 | 19.6 | Resistor, Chip, 15-Ohms, 1/8-W, yy% | 1206 | Std | Std |
| 1 | R19 | 10 | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 1 | R20 | 11.5k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 1 | R21 | 2.49k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 2 | R22 R7 | 10k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 2 | R24 R23 | 13.0k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |

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|--------|--|------------|--|--------------------|------------|----------|
| 2 | R25, R6 R16 R26 R32 R37 | 10k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 2 | R28, R2-3 R10-11 | 100 | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 1 | R29 | 30.1k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 1 | R30 | 51.1k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 1 | R34 | 40.2k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 1 | R35 | 1.21k | Resistor, Chip, 1/16-W, yy% | 0603 | STD | Std |
| 2 | R4-5 | 5.6k | Resistor, Chip, 1-W, xx% | 2512 | STD | Vishay |
| 1 | T1 | 100 to 1 | Transformer, 3 Pri, 2Sec | 0.284 x 0.330 inch | PA1005.xxx | Pulse |
| 4 | T2-3 T5-6 | 1800 uH | Transformer, Gate Driver | 0.340 X 0.355 inch | PA2002NL | Pulse |
| 1 | T4 | 54922 | Transformer, | 34.00 x 42.00 mm | 54922 | Payton |
| 2 | TP1-2 | STD | Test Point, O.050 Hole | | STD | STD |
| 2 | TP3-4 | STD | Test Point, O.032 Hole | | STD | STD |
| 2 | TP5 TP9 | 5012 | Test Point, O.062 Hole | 0.25 | 5012 | Keystone |
| 4 | TP7-8 TP11-12 | STD | Test Point, O.050 Hole | 0.100 x 0.100 inch | STD | STD |
| 2 | U3 U5 | UCC37324D | IC, Dual 4-A High Speed Low-Side Power MOSFET Drivers | SO-8 | UCC3732xD | TI |
| 1 | U4 | UCC28950PW | IC, Advanced Phase-Shifted PWM Controller | TSSOP-24 | | TI |
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| 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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