

Filename: PMP2166_REV_B_bom.xls

Date: 02/23/2007

PMP2166_REV_B BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr	AREA
4	C1, C10, C20, C29	10uF	Capacitor, Ceramic, 16V, X7R, 10%	1206	Std	Std	
1	C100	0.01uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	TDK	
1	C19	1uF	Capacitor, Ceramic, 16V, X7R, [tol]	0805	Std	Std	
4	C2, C11, C28, C37 C21, C26, C30,	100pF	Capacitor, Ceramic, 100-pF, 50-V, X7R, 15%	0603	Std	TDK	
4	C35	0.1uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	TDK	
2	C22, C31	2200pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	TDK	
2	C23, C32	330uF	Capacitor, POSCap, 6.3V, 20%	7343 (D)	6TPE330ML	Sanyo	
2	C24, C33	10uF	Capacitor, Ceramic, 10V, X5R, 15%	0805	Std	TDK	
2	C25, C34	470pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	TDK	
2	C27, C36	4.7uF	Capacitor, Ceramic, 10V, X5R, 15%	0805	Std	TDK	
2	C3, C12	1000pF	Capacitor, Ceramic, 470-pF, 50-V, X7R, 15%	0603	Std	TDK	
2	C4, C13	0.1uF	Capacitor, Ceramic, 0.1-uF, 50-V, X7R, 15%	0603	Std	TDK	
2	C5, C14	10uF	Capacitor, Ceramic, 10-uF, 6.3-V, X5R, 15%	1210	Std	TDK	
2	C6, C15	470pF	Capacitor, Ceramic, 470-pF, 50-V, X7R, 15%	0603	Std	TDK	
2	C7, C16	0.47uF	Capacitor, Ceramic, 0.01-uF, 50-V, X7R, 15%	0603	Std	TDK	
2	C8, C17	33pF	Capacitor, Ceramic, 33-pF, 50-V, X7R, 15%	0603	Std	TDK	
2	C9, C18	150pF	Capacitor, Ceramic, 150-pF, 50-V, NPO, 15%	0603	Std	TDK	
2	D1, D2	B340	Diode, Schottky, xx-mA, yy-V	SMC	xxxxxxx	XXX	
1	D100	MMBZ5230BLT1	Diode, Zener, 4.7-V, yy-mA, zz-mW, q%	SOT23	MMBZ5230BLT1	Motorola	
4	J1, J2, J3, J4	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST	
2	J5, J6	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35	ED1609		
2	L1, L2	33uH	Inductor, SMT, 33-uH, 3.23-A, 0.06-ohm	0.492 sq"	DR127-330	Coiltronics	
2	L3, L4	6.8uH	Inductor, SMT, 7.34-A, 11.6-milliohm	0.492 sq"	DR127-6R8	Coiltronics	
2	Q1, Q2	IRLMS6802	MOSFET, P-ch, -20-V, yy-A, 50-milliOhms	Micro6			
2	Q3, Q5	Si4426	MOSFET, N-ch, 20-V, 8.5-A, 25-milliOhms	SO8	Si4426DY	Vishay	
2	Q4, Q6	Si4408DY	MOSFET, N-ch, 20V, 21A, 6.8 milliohm	SO8	Si4408DY	Vishay	
1	Q7	2N7002DICT	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002DICT	Vishay-Liteon	
3	R1, R10, R41	127K	Resistor, Chip, 127K-Ohms, 1/16-W, 1%	0603	Std	Std	
1	R100	10K	Resistor, Chip, 127K-Ohms, 1/16-W, 1%	0603	Std	Std	
1	R101	39.2K	Resistor, Chip, 39.2K-Ohms, 1/16-W, 1%	0603	Std	Std	
1	R102	36.5K	Resistor, Chip, 36.5K-Ohms, 1/16-W, 1%	0603	Std	Std	
1	R18	26.7K	Resistor, Chip, 26.7K-Ohms, 1/16-W, 1%	0603	Std	Std	
2	R19, R27	10.0K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	
2	R2, R11	0.03	Resistor, Chip, 0.03-Ohms, 1/2-W, 1%	2010	Std	Std	
2	R20, R28 R21, R23, R29,	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	
5	R31, R33	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	
2	R22, R30	3.3	Resistor, Chip, 1/16W, 1%	0603	Std	Std	
2	R24, R32	4.99K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	

1	R25	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R26, R34	Open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R3, R12	1.0K	Resistor, Chip, 2.2-Ohms, 1/16-W, 1%	0603	Std	Std
1	R36	1.62K	Resistor, Chip, 1.62K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R4, R13	0	Resistor, Chip, 0-Ohms, 1/16-W, 1%	0603	Std	Std
2	R5, R14	30.1K	Resistor, Chip, 30.1K-Ohms, 1/16-W, 1%	0603	Std	Std
	R6, R15, R35, R37,					
6	R38, R39	4.99K	Resistor, Chip, 4.99K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R7, R16	100K	Resistor, Chip, 100K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R8, R17	49.9	Resistor, Chip, 49.9-Ohms, 1/16-W, 1%	0603	Std	Std
2	R9, R40	16.2K	Resistor, Chip, 16.2K-Ohms, 1/16-W, 1%	0603	Std	Std
	TP1, TP4, TP8, TP9, TP11, TP12, TP15, TP16, TP17, TP18, TP19, TP22,					
15	TP23, TP24, TP27	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 ir 5000		Keystone
	TP102, TP106, TP107, TP113,					
6	TP120, TP125	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 ir 5001		Keystone
2	U1, U2	TPS40200D	IC, Low Cost Sync Buck Controller	SO-8	TPS40200D	TI
1	U3	TPS73701DCQ	IC, 1A, LDO Regulator with Reverse Current Protection	SOT223-6	TPS73701DCQ	TI
2	U4, U5	TPS40190DRC	IC, Low cost synchronous buck controller	DRC10	TPS40190DRC	TI
3	U7, U8, U9	TPS3801-01DCK	IC, Voltage Supervisor, 1.14 Volts, 200ms	SOP-5 (DCK)	TPS3801-01DCK	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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