

Filename: PMP5123_REVB_bom.xls

Date: 10/08/2009

PMP5123_REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C11	330uF	Capacitor, Aluminum, 16V, 20%, FK Series	0.217 x 0.169	EEVFK1C331P	Panasonic
2	C13, C14	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226MT	TDK
1	C15	0.47uF	Capacitor, Ceramic, 100-V, X7R, 20%	1206	C2012X7R2A474M	TDK
3	C16, C17, C33	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C18	1000pF	Capacitor, Ceramic, 2kV, C0G, 10%	1812	Std	Std
1	C21	68uF	Capacitor, Aluminum, 16V, 20%	0.260 x 0.276 inch	EEVFK1C680P	Panasonic
1	C22	0.1uF	Capacitor, Ceramic, 100-V, X7R, 20%	1206	C2012X7R2A104M	TDK
2	C24, C26	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
1	C28	0.047uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C29	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H221K	TDK
8	C3, C4, C5, C6, C7, C8, C9, C10	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
2	C30, C34	0.022uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H222K	TDK
1	C35	0.047uF	Capacitor, Ceramic, 50V, X7R, 20%	0603	Std	Std
1	C36	4.7uF	Capacitor, Ceramic, 16V, X5R, 15%	0805	Std	Std
1	C37	22pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std
3	D1, D5, D9	ES1D	Diode, Super Fast Rectifier, 200V, 1A	0.220 x 0.115 inch	ES1D	Diodes
2	D16, D17	MBR0540	Diode, Schottky, 500-mA, 40-V	SOD123	MBR0540	
5	D2, D6, D7, D18, D101	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
2	D3, D4	8.2V	Diode, Zener, 8.2-V	SOT23	BZX84C8V2LT1	ON Semiconductor
2	J1, J2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	L1	16uH	Inductor, SMT, 9A, 9.1milliohms	0.750 x 0.875 inch	PA2050.163NL	Pulse
1	L3	1mH	Inductor, SMT, 70mA, 13.8ohm	0.26x0.09 inch	DO1608C-105ML	Coilcraft
2	Q1, Q2	FZT655	Bipolar, NPN, 150V, 1A	SOT223	FZT655	Zetex
2	Q11, Q12	Si7846DP	MOSFET, NChannel, 150V, 6.7 A, 50milliohm	PWRPAK S0-8	Si7846DP	Vishay-Siliconix
2	Q13, Q15	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
4	Q3, Q4, Q14, Q16	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	Q5	SI2309DS	MOSFET, Pch, -60V, 1.25A	SOT-23	SI2309DS	Vishay
2	Q6, Q7	Si7370DP	MOSFET, NChannel, 60V, 15.8 A, 11milliohm	PWRPAK S0-8	Si7370DP	Vishay-Siliconix
1	Q9	Si7178DP	MOSFET, NChannel, 100V, 14milliohm	PWRPAK S0-8	Si7178DP	Vishay
2	R1, R2	2.49k	Resistor, Chip, 1/4W, 5%	1210	Std	Std
1	R11	887	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14, R31	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R15, R17, R28, R34	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R16, R18, R23, R24	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R19, R27	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R22	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R3	1.5	Resistor, Chip, 1/10W, yy%	0805	Std	Std
1	R33	2.61k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R4	1k	Resistor, Chip, 1/10W, yy%	0805	Std	Std

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4	R5, R25, R29, R30	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R6, R10	24.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	4.75k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	PA1005.100NL	XFMR, Current Sense	0.284 x 0.330 inch	PA1005.100NL	Pulse
1	T2	PA2584NL	Transformer, Flyback	1.050 x 1.050 inch	PA2584NL	Pulse
3	TP1, TP3, TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
2	TP2, TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U2	UCC2897APW	IC, Current-Mode Active Clamp PWM Controller	PW20	UCC2897APW	Texas Instruments
1	U5	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay
1	U6	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	TI
1	U7	TL331DBV	IC, COMPARATOR, DIFFERENTIAL, SINGLE	SOT_23_5 (DBV)	TL331DBV	TI

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