Filename: PMP5052_REVA_bom.xls Date: July 29, 2009

PMP5052_REVA BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
4	C1, C2, C3, C4	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225N	ITDK
3	C11, C12, C20	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C13	100uF	Capacitor, Aluminum, 25V, ZL Series	0.200 * 0.435 i	n 25V ZL 100uF	Rubycon
1	C14	1000pF	Capacitor, Ceramic, 2kV, C0G, 10%	1812	Std	Std
3	C15, C16, C23	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	ITDK
1	C17	0.033uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H333K	TDK
1	C18	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H221K	TDK
1	C19	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C21	0.022uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H223K	TDK
1	C22	4.7uF	Capacitor, Ceramic, 16V, X7R, 15%	0805	Std	Std
1	C5	0.047uF	Capacitor, Ceramic, 250-V, X7R	1206	C3216X7R2E473N	
2	C6, C7	470uF	Capacitor, Tantalum, 6.3V, 20%	0.287 X 0.169	irTPME477M006R00	AVX
3	C8, C9, C10	47uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	Std	Std
1	C90*	2200pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	GRM39yyyxxxKvvv	muRata
	D1, D2, D3, D4, D5,					
7	D6, D7	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
3	J1, J2, J5		Header, Single pin	0.072 x 1	8600-0-05-01-00-0	(Mill-Max
2	J3, J4	52-0-05-xx-00-00-0	Header, Single pin	0.125 x 1	8952-0-05-01-00-0	(Mill-Max
1	L1	1.2uH	Inductor, SMT, 37-A, 0.9-milliohm	0.790 x 0.770 i	r SER2010-122ML	Coilcraft
1	L2	1mH	Inductor, SMT, 0.1A, 14ohm		DO1608C-105ML	
4	Q1, Q2, Q8, Q9	CSD16401Q5A-R	MOSFET, NChan, 25V, 37A, 1.3milliOhm	QFN5X6mm	CSD16401Q5A-R	TI
1	Q3	IRF6216	MOSFET, P-ch, 150-V, 2.2-A, 240-milliOhms	SO8	IRF6216	International Rectifier
2	Q4, Q5	Si7738DP	MOSFET, NChan, 150V, 30A, 38millohm	PWRPAK S0-8	8 Si7738DP	
1	Q6	MMBT3904	Bipolar, NPN, 40-V, 200-mA	SOT23	MMBT3904LT1	On Semi
1	Q7	MMBT3906	Bipolar, PNP, 40-V, 200-mA	SOT23	MMBT3906LT1	On Semi
2	R1, R2	5	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R10	1.65k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	7.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R12, R13	75k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14, R17	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R16, R18	1.21k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R19, R24	DNP	Do Not Populate	0603	N/A	N/A
1	R20	301	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R25	6.04k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R3, R21, R23	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

2 R6, R22 1k Resistor, Chip, 1/16W, 1% 0603 Std Std 2 R7, R9 100k Resistor, Chip, 1/16W, 1% 0603 Std Std 1 R8 3.74k Resistor, Chip, 1/16W, 1% 0603 Std Std 1 R90* 1 Resistor, Chip, 1/8W, 5% 1210 Std Std	
1 R8 3.74k Resistor, Chip, 1/16W, 1% 0603 Std Std	
1 Donistor Chip 1/0/M 50/ 1010 Ctd Ctd	
1 R90* 1 Resistor, Chip, 1/8W, 5% 1210 Std Std	
1 T1 PA0810.004NL Transformer, 3 pri, 2 sec-center tap 0.850 x 0.920 ir PA0810.004NL Pulse	
1 TP1 5000 Test Point, Red, Thru Hole Color Keyed 0.100 x 0.100 5000 Keystone	
1 U1 UCC2897APW IC, Current-Mode Active Clamp PWM Controller PW20 UCC2897APW Texas Instru	ments
1 U2 TCMT1107 IC, Photocoupler, CTR = 80% - 160% MF4 TCMT1107 Vishay	
1 U3 TLV431ADBZ IC, Low-Voltage Adjustable Shunt Regulator SOT23-3 TLV431AIDBZ TI	
1 PCB, 2.3 ln x 1.45 ln x 0.063 ln PMP4804 REV A Any	

- 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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