

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	C3225X7R2A225M TDK	
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 in	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 TDK	
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	C3216X7R2E473M TDK	
2	C6, C7	470uF	Capacitor, Tantalum, 6.3V, 20%	0.287 X 0.169 in	TPME477M006R0C 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	GRM39yyxxxKvuv muRata	
7	D1, D2, D3, D4, D5, D6, D7	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
3	J1, J2, J5	00-0-05-xx-00-00-00	Header, Single pin	0.072 x 1	8600-0-05-01-00-00	Mill-Max
2	J3, J4	52-0-05-xx-00-00-00	Header, Single pin	0.125 x 1	8952-0-05-01-00-00	Mill-Max
1	L1	1.2uH	Inductor, SMT, 37-A, 0.9-milliohm	0.790 x 0.770 in	SER2010-122ML	Coilcraft
1	L2	1mH	Inductor, SMT, 0.1A, 14ohm	0.26x0.09 inch	DO1608C-105ML	Coilcraft
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, 38milliohm	PWRPAK SO-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	R4, R5	0.05	Resistor, Chip, 1-W, 1%	2512	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	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 Instruments
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 In x 1.45 In x 0.063 In		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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