

Filename: PMP4531REVB_bom.xls							
Date: 04/22/2009							
PMP4531REVB BOM							
COUNT	RefDes	Value	Description	Size	Part Number	MFR	Area
6	C1	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	GRM32DR71E106KA12L	Murata	83,600
	C2	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	GRM32DR71E106KA12L	Murata	83,600
	C3	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	GRM32DR71E106KA12L	Murata	83,600
3	C4	4.7uF	Capacitor, Ceramic, 4.7uF, 50V, X7R, 20%	1210	GRM32ER71H475KA88L	Murata	24200
	C5	4.7uF	Capacitor, Ceramic, 4.7uF, 50V, X7R, 20%	1210	GRM32ER71H475KA88L	Murata	24200
1	C6	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	std	std	5650
	C7	4.7uF	Capacitor, Ceramic, 4.7uF, 50V, X7R, 20%	1210	GRM32ER71H475KA88L	Murata	24200
	C8	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	GRM32DR71E106KA12L	Murata	83,600
	C9	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	GRM32DR71E106KA12L	Murata	83,600
	C10	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	GRM32DR71E106KA12L	Murata	83,600
1	C11	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std	5650
1	C12	220pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	std	std	5650
1	C13	220nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	std	std	5650
1	C14	560pF	Capacitor, Ceramic, 50V, X7R [tol]	0603	std	std	5650
1	C15	330pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	std	std	5650
1	C16	22pF	Capacitor, Ceramic, 50V, NPO, [tol]	0603	std	std	5650
2	C100	OPEN	Capacitor, Electrolytic, SMT, 330uF, 35V, 10.0x10.2mm	0.457 x 0.406	EEVFK1V331P	Panasonic	225,848
	C101	OPEN	Capacitor, Electrolytic, SMT, 330uF, 35V, 10.0x10.2mm	0.457 x 0.406	EEVFK1V331P	Panasonic	225,848
1	D1	MBRD660CT	Diode, Dual Schottky, 6-A, 60-V	DPAK	MBRD660CT	On Semi	107500
1	D2	20V	Diode, Zener, 20-V, 225-mW, 5%	SOT23	MMBZ5250BLT1	On Semi	14105
2	J1	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST	141600
	J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST	141600
2	L1	22uH	Inductor, SMT, 6.3Arms, 25.7-milliohms	0.543 x 0.516 inch	HC9-220-R	Cooper	359100
	L2	22uH	Inductor, SMT, 6.3Arms, 25.7-milliohms	0.543 x 0.516 inch	HC9-220-R	Cooper	359100
1	Q1	MMBT2222A	TRANSISTOR, NPN, HIGH-PERFORMANCE, 500mA	SOT-23	MMBT2222A	Fairchild	14105
1	Q2	Si7850DP	MOSFET, NChannel, 60V, 10.3 A, 0.022 milliohm	PWRPAK S0-8	Si7850DP	Vishay	85057
1	Q3	MMBT2907ALT1	Transistor, PNP, -60V, -600mA, 225-W	SOT23	MMBT2907ALT1	On Semi	14105
1	R1	4.7	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R2	249k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R3	0.1	Resistor, Chip, 1/2W, yy%	2010	STD	STD	30800
1	R4	1k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R5	0.015	Resistor, Chip, 1/2W, 1%	1812	Std	Std	38080
2	R6	OPEN	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R7	100k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R8	49.9k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R9	49.9	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
	R10	OPEN	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
2	TP1	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone	
2	TP2	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone	
1	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP4	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone	

	TP5	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
3	TP6	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP7	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP8	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone	
1	U1	TPS40211DGQ	IC, 4.5V-52V I/P, Current Mode Boost Controller	DGQ10	TPS40211DGQ	TI	38400
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.						