

Filename: PMP4616REVC_bom.xls							
Date: 08/13/2009							
PMP4616REVC BOM							
COUNT	RefDes	Value	Description	Size	Part Number	Mfr	Area
1	C1	1nF	Capacitor, Ceramic, 2kV, X7R, 10%	1812	Std	Std	38080
3	C2	10uF	Capacitor, Ceramic, 25V, 10-uF, X7R, 15%	1210	C3225X7R1E106K	TDK	83,600
	C3	10uF	Capacitor, Ceramic, 25V, 10-uF, X7R, 15%	1210	C3225X7R1E106K	TDK	83,600
	C4	10uF	Capacitor, Ceramic, 25V, 10-uF, X7R, 15%	1210	C3225X7R1E106K	TDK	83,600
1	C5	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK	5650
1	C6	100pF	Capacitor, Ceramic, 100V, X7R, 10%	0603	C1608X7R2A103K	TDK	5650
2	C7	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	STD	STD	83,600
	C8	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	STD	STD	83,600
1	C9	100nF	Capacitor, Ceramic, 50V, [temp], [tol]	0603	STD	muRata	5650
1	C10	470pF	Capacitor, Ceramic COG/NP0, 25V, 5%	0603	STD	muRata	5650
3	C11	1uF	Capacitor, Ceramic, 16V, [temp], [tol]	0603	STD	muRata	5650
1	C12	680nF	Capacitor, Ceramic, 25V, [temp], [tol]	0603	STD	muRata	5650
1	C13	330pF	Capacitor, Ceramic, 25V, [temp], [tol]	0603	STD	muRata	5650
	C14	1uF	Capacitor, Ceramic, 16V, [temp], [tol]	0603	STD	muRata	5650
	C15	1uF	Capacitor, Ceramic, 16V, [temp], [tol]	0603	STD	muRata	5650
1	C16	2.2nF	Capacitor, Ceramic, 10V, [temp], [tol]	0603	STD	muRata	5650
1	D1	B160	Diode, Schottky, 1000-mA, 60-V	SMA	B160	Diodes Inc.	29520
1	D2	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi	13419
1	D3	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
2	J1	PTC36SAAN	Header, Male 2-pin, 100mil spacing, Rt Angle	0.100 inch x 2	Std	Sullins	
	J2	PTC36SAAN	Header, Male 2-pin, 100mil spacing, Rt Angle	0.100 inch x 2	Std	Sullins	
1	Q1	Si2328DS	MOSFET,N-ch, 100V, 250 milliohm, 4nC	SOT23	Si2328DS	Vishay	14105
1	R1	10k	Resistor, Chip, 1/10W, yy%	0805	Std	Std	10560
1	R2	402k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R3	20	Resistor, Chip, 1/16W, yy%	0603	Std	Std	5,650
1	R4	4.7	Resistor, Chip, 1/16W, yy%	0603	Std	Std	5,650
1	R5	1k	Resistor, Chip, 1/16W, yy%	0603	Std	Std	5,650
1	R6	0.15	Resistor, Chip, 1/10W, yy%	0805	Std	Std	10560
1	R7	2.49k	Resistor, Chip, 1/16W, yy%	0603	Std	Std	5,650
1	R8	1.91k	Resistor, Metal Film, 1/4 watt, ± 1%	1206	Std	Std	15390
1	R9	49.9	Resistor, Chip, 1/16W, x%	0603	Std	Std	5,650

1	R10	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R100	6.98k	Resistor, Metal Film, 1/4 watt, ± 1%	1206	Std	Std	15390
1	T1	163 uH	Transformer, Flyback	0.453 x 0.512 inch	G084206LF	GCI	230400
7	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
2	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP5	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP6	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP8	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
1	U1	TPS40210DGQ	IC, 4.5V-52V I/P, Current Mode Boost Controller	DGQ10	TPS40210DGQ	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.						

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