

Date: 03/18/2010						
PMP4741 BOM						
COUNT	RefDes	Value	Description	Size	Part Number	MFR
2	C1	100uF	Capacitor, Aluminum, 25V, 20%	0.260 x 0.276 inch	EEVFK1E101XP	Panasonic
	C2	100uF	Capacitor, Aluminum, 25V, 20%	0.260 x 0.276 inch	EEVFK1E101XP	Panasonic
2	C5	10uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	C3225X7R1E106M	TDK
	C6	10uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	C3225X7R1E106M	TDK
1	C7	470pF	Capacitor, Ceramic, 50V, [temp], [tol]	0805	GRM40yyyxxxKvv	muRata
8	C8	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK
	C10	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK
3	C11	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	C1608X7R1C105M	TDK
	C12	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK
	C13	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK
	C14	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK
	C15	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	C1608X7R1C105M	TDK
1	C16	330pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	std	std
1	C17	10nF	Capacitor, Ceramic, 50V, X7R [tol]	0603	std	std
	C18	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	C1608X7R1C105M	TDK
1	C19	330pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	std	std
1	C20	220pF	Capacitor, Ceramic, 50V, NPO, [tol]	0603	std	std
	C21	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK
	C22	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK
1	C23	2.2uF	Capacitor, Ceramic, 25V, X5R	0805	C2012X5R1E225M	TDK
1	C24	100nF	Capacitor, Ceramic, 50V, X7R [tol]	0603	std	std
	C100	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK
1	D1	MBRB2545CT	Diode, Dual Schottky, 30A, 45V	D2PAK	MBRB2545CT	On Semi
1	D100	BAV99	Diode, Dual Ultra Fast, Series, 200-mA, 70-V	SOT23	BAV99	Fairchild
3	HS1	SK 437 35 STC 2	Heatsink, TO-220/218 veritcal, Rth 18K/W	0.640 x 0.640 inch	SK 437 35 STC 2 and THF 409 220 2	Fischer Elektronik
	HS2	SK 437 35 STC 2	Heatsink, TO-220/218 veritcal, Rth 18K/W	0.640 x 0.640 inch	SK 437 35 STC 2 and THF 409 220 2	Fischer Elektronik
	HS3	SK 437 35 STC 2	Heatsink, TO-220/218 veritcal, Rth 18K/W	0.640 x 0.640 inch	SK 437 35 STC 2 and THF 409 220 2	Fischer Elektronik
2	J1	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
	J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
1	L1	10uH	Inductor, SMT, 10A, 17milliohm	0.51 x 0.51 inch	IHLP5050FDER10RM01	Vishay
1	Q2	SIR426DP	MOSFET, NChan, 40V, 12.8A, 10.5milliohm	PWRPAK S0-8	SiR426DP	Vishay-Siliconix
1	R1	4.7	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R2	182k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R3	1	Resistor, Chip, 1/2W, 5%	2010	Std	Std
1	R4	1k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R5	0.01	Resistor, Chip, 1/2W, 5%	2010	Std	Std
1	R6	4.64k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R7	66.5k	Resistor, Chip, 1/16W, x%	0603	Std	Std

1	R8	49.9	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R9	2k	Resistor, Chip, 1/16W, 0.1%	0603	TNPW0603xxxxBT9	Vishay
3	TP1	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
1	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
	TP4	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP5	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP6	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
2	TP7	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	TPS40210DGQ	IC, 4.5V-52V I/P, Current Mode Boost Controller	DGQ10	TPS40210DGQ	TI
1	U2	UCC27324D	IC, High Speed Low Side Power MOSFET driver	SO8	UCC27324D	Texas Instruments
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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