Filename: PMP4501 REV_C_bom.xls Date: 02/23/2010

PMP4501 REV_C BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR	AREA
1	C1	0.1 uF	Capacitor, Polypropilene, 400V, 10%	0.728 x 0.248 V	ECWF4104B	Panasonic	254,100
1	C2	10nF	Capacitor, Ceramic, 500V, X7R, 10%	1210	12107C103KAT2A	AVX	83,600
1	C3	0.15 uF	Capacitor, Film, 275VAC, 20%	0.689 x 0.217	ECQU2A154ML	Panasonic	97500
2	C4	470uF	Capacitor, Aluminum Electrolytic, 63V, ±20%, -40 to +105 °C	0.670 X 0.697 inch	EEVFK1J471M	Panasonic	532,000
	C5	470uF	Capacitor, Aluminum Electrolytic, 63V, ±20%, -40 to +105 °C	0.670 X 0.697 inch	EEVFK1J471M	Panasonic	532,000
1	C6	100uF	Capacitor, Aluminum, 25V, ±20%	0.328 x 0.328 inch	EEEFK1E101P	Panasonic	148,320
1	C7	47uF	Capacitor, Aluminum, 63V, ±20%	0.328 x 0.328 inch	EEEFK1J470P	Panasonic	182,450
1	C8	1000pF Y1	Capacitor, Cer. Disc, 250V, Y1	0.394 X 0.315 inch Max.	ECK-ANA102MB	Panasonic	128
1	C9	2.2nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
2	C10	47uF	Capacitor, Aluminum, SM, ±20%, 35V,	D Code	EEEFK1V470P	Panasonic	95700
3	C11	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata	10560
1	C12	10pF	Capacitor, Ceramic, 50V, NP0, 10%	0603	Std	muRata	5650
	C13	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata	10560
1	C14	DNP	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C15	47uF	Capacitor, Aluminum, SM, ±20%, 35V,	D Code	EEEFK1V470P	Panasonic	95700
1	C16	1uF	Capacitor, Ceramic, 25V, X5R, +/-10%	0805	std	std	10560
1	C17	220nF	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std	5650
	C100	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata	10560
1	D1	DF06S	Bridge Rectifier, 600V, 1A, Glass Passivated, SMD	DF-S	DF06S	Diodes	176412
2	D2	BYG10M	Diode, Standard Rectifier,1.5A, 1000V	SMA	BYG10M	Vishay	29520
	D3	BYG10M	Diode, Standard Rectifier,1.5A, 1000V	SMA	BYG10M	Vishay	29520
1	D4	US1K	Diode, 1-A, 800-V	SMA	US1K	Diodes Inc.	95000
1	D5	PDU540-13	Diode, 5A 400V Ultra-Fast Recovery	PowerDI 5	PDU540-13	Diodes	60800
1	D6	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
1	D7	MURA140T3	Diode, Rectifier, 1A, 400-V	SMA	MURA140T3	ON	29520
1	D8	15V	Diode, Zener, 15-V, 8.5-mA, 225-mW, 5%	SOT23	MMBZ5245BLT1	Motorola	13419
1	D9	MURA120T3	Diode, Rectifier, 1A, 200-V	SMA	MURA120T3	ON	29520
1	D10	51V	Diode, Zener, 51-V, 2.5-mA, 225-mW, 5%	SOT23	BZX84C51-7-F	Diodes	14105
1	D11	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild	19380
1	D12	12v	Diode, Zener, 12-V, yy-mA, zz-mW, q%	SOT23	MMBZ5242BLT1	Motorola	13419
1	D13	BAW56	Diode, Dual , 250-mA, 75 V	SOT23	BAW56-TP	Micro Commercial Co	14105
1	F1	1A/250V	Fuse, TR5 Series, 1A, 250V	0.335	3701100041	Wickmann	104,635
1	J1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
1	L1	1mH	Inductor, SMT, 0.8A, 2 ohm	0.51x 0.37 inch	DO3340P-105ML	Coilcraft	212800
1	L2	20mH	Inductor, 0.5 A, 540 milliohm	0.512 x 0.728 inch	744822120	WE	410836
1	Q1	PZT2222A	Bipolar, NPN, 40-V, 1000-mA, 1-W	SOT223	PZT2222A	Fairchild	98600
1	Q2	STB7NK80ZT4	MOSFET, N-ch, 800-V, 5.2-A, 1.8 Ohm	SMD-220	STB7NK80ZT4	ST	326600
1	Q3	3904	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23			14105
2	R1	100K	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
2	R2	22K	Resistor, 22KOhm, 1W, 5%	2512	STD	STD	35100
	R3	22K	Resistor, 22KOhm, 1W, 5%	2512	STD	STD	35100
	R4	100K	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
1	R5	0.15	Resistor, Chip,1/2W, 1%	1210	STD	STD	24200

1	R6	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
2	R7	10K	Resistor, Chip, 1/10W, yy%	0805	Std	Std	10560
1	R8	2.2	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
2	R9	1.5M	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
1	R10	6.98K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
2	R11	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R12	23.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R13	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R14	1.5M	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
	R15	23.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R16	10	Resistor, Chip, 1/10-W, 1%	0805	Std	Std	10560
1	R17	2.49K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R18	10K	Resistor, Chip, 1/10W, yy%	0805	Std	Std	10560
1	R19	11K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
2	R20	47.5K	Resistor, Chip, 1/10W, 1%	0805	Std	Std	15,300
	R21	47.5K	Resistor, Chip, 1/10W, 1%	0805	Std	Std	15,300
1	R22	330	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R23	0.82	Resistor, Chip, 0.82-Ohms, 1-W, 1%	2512	Std	Std	35100
1	R24	2.21k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
3	R25	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R26	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R27	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R28	3.32k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	T1	G094010LF	Transformer, Continuous Mode Flyback	1.122 x 1.200 inch	G094010LF	GCI	1462500
5	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
	TP4	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
1	U1	TL103WID	IC, Dual Op Amp With Internal Reference	SO8	TL103WID	TI	75900
1	U2	UCC28810D	IC, LED LIGHTING POWER CONTROLLER	SO8	UCC28810D	TI	75900
1	U3	TCMT1107	IC, Photocoupler	MF4	TCMT1107	Vishay	47740

- 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.
 - Ref designators marked with an asterisk ('**') cannot be substituted.
 All other components can be substituted with equivalent MFG's components.

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