Filename: PMP4522 REV_B_bom.xls
Date: 10/19/2010

PMP4522 REV_B 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
3	C4	220uF	Capacitor, 160V, Temp.-40 to +105°C, ±20%	18 x 20 mm	EKXJ161ESS221MM20S	Nippon Chemi-con	430084
	C5	220uF	Capacitor, 160V, Temp.-40 to +105°C, ±20%	18 x 20 mm	EKXJ161ESS221MM20S	Nippon Chemi-con	430084
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	0.33uF	Capacitor, Ceramic, 25V, X5R, +/-10%	0805	std	std	10560
1	C17	2.2nF	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std	5650
	C100	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata	10560
	C101	220uF	Capacitor, 160V, Temp.-40 to +105°C, ±20%	18 x 20 mm	EKXJ161ESS221MM20S	Nippon Chemi-con	430084
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	S1KB	Diode, 1-A, 800-V	SMB	S1KB	Diodes Inc.	95000
1	D5	MURA160T3	Rectifier, Schottky Barrier, 600V 1A	403D	MURA160T3	On Semi	4088
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
2	D10	68V	Diode, Zener, 68-V, 2-mA, 225-mW, 5%	SOT23	BZX84C68LT1	Diodes	14105
1	D11	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild	19380
2	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
	D100	68V	Diode, Zener, 68-V, 2-mA, 225-mW, 5%	SOT23	BZX84C68LT1	Diodes	14105
	D101	12V	Diode, Zener, 12-V, yy-mA, zz-mW, q%	SOT23	MMBZ5242BLT1	Motorola	13419
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
2	Q3	3904	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23			14105
	Q100	3904	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23			14105

1	Q101	ZVN3320FT	MOSFET, N-ch, 200-V, 60-mA, 25-Ohms	SOT23	ZVN3320FT	Diodes/Zetex	14105
2	R1	100K	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
2	R2	47K	Resistor, 47KOhm, 1W, 5%	2512	STD	STD	35100
	R3	47K	Resistor, 47KOhm, 1W, 5%	2512	STD	STD	35100
	R4	100K	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
1	R5	0.5	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	14.3K	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	14.3K	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
2	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	33k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R100	22.1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R101	2.21k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R102	475k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R103	10K	Resistor, 10KOhm, 1W, 5%	2512	STD	STD	35100
1	T1	SP-EFS25/13	Transformer, Transition Mode Flyback	1.122 x 1.200 inch	SP-EFS25/13	Kaschke	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.

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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