

Filename: PMP5715 REV_B BOM_bom.xls

Date: 07/08/2011

PMP5715 REV_B BOM BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	100uF	Capacitor, Aluminum Electrolytic, 50-V, ±20%	8mm *11.5mm	EKZE500ESS101MHB5D	Nippon Chemi-Con
1	C2	10uF	Capacitor, Ceramic, 16V, X5R	0805	Std	Std
1	C3	10nF	Capacitor, Ceramic, 50V, X7R	0603	Std	Std
1	C6	150uF	Capacitor, Alum Electrolytic 450 V, ±20%	18.00 mm Dia	EKXJ451ESS151MM50S	Nippon Chemi-Con
1	C8	0.68uF	Capacitor, Polypropilene, 520V, 10%	0.690 x 0.374 inch	R71VI3680AA30K	KEMET (Arcotronics)
1	C10	100uF	Capacitor, Aluminum Electrolytic, 25-V, ±20%	6.3mm x 11.5mm	EKZE250ESS101MF11D	Nippon Chemi-Con
1	C11	0.1uF	Capacitor, Ceramic, 25V, X7R	0603	Std	Std
1	C12	0.33uF	Capacitor, Ceramic, 10V, X5R, ±10%	0603	Std	Std
1	C13	56nF	Capacitor, Ceramic, 25V, X7R, ±10%	0603	Std	Std
1	C14	18pF	Capacitor, Ceramic, 50V, NPO	0603	Std	Std
1	C16	0.1uF	Capacitor, Ceramic, 630V, X7R, 20%	1812	C4532X7R2J104M	TDK
1	C19	22nF	Capacitor, Ceramic, 50V, X7R	0603	Std	Std
1	C25	3300pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std
1	C26	47nF	Capacitor, Ceramic, 50V, X7R	0603	Std	Std
1	C27	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
2	C17-18	1uF	Capacitor, Ceramic, 25V, X5R	0603	Std	Std
4	C20-23	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1812	C4532X7R1H475K	TDK
2	C24 C28	4.7nF	Capacitor, Polypropylene film, 1KVDC	0.730 x 0.400 inch	FKP1-4700pF-1000V	WIMA
2	C4 C7	1000pF	Capacitor, Ceramic Disc, 1-nF, 250V, Y1/X1	0.394 X 0.315 inch Max.	ECK-ANA102MB	Panasonic
2	C5 C29	0.22 uF	Capacitor, Film, 275VAC, 20%	0.689 x 0.217	R46KI322050M2M	KEMET (Arcotronics)
2	C9 C15	1nF	Capacitor, Ceramic, 50V, X7R	0603	Std	Std
1	D1	BYS11-90	Diode, Schottky, 1A, 90-V	SMA	BYS11-90-E3/TR	Std
1	D2	BZX84C13	Diode, Zener, 12V, 20-mA, 225-mW, 5%	SOT23	BZX84C13LT1G	Onsemi
1	D4	HFA04TB60	Diode, Rectifier Ultrafast, 4A, 600V	D2PAK	VS-HFA04TB60SPbF	Vishay
1	D5	GBJ606	Diode, Bridge Rectifier, 6A, 600V	1.190 x 0.190 inch	GBJ606	Std
1	D6	BYG10J	Diode, 1.5A, 600-V	SMA	BYG10J	Std
1	D7	BYG10J	Diode, 1.5A, 600-V	SMA	BYG10J	
1	D8	18V	Diode, Zener, 18-V, 1W	SMA	SMAZ18-13	Std
1	D9	MBR0530	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530L	Vishay
1	D21	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon
1	D23	27V	Diode, Zener, 225mW	SOD-123	MMSZ5254BL	ON Semi
3	D10 D12 D15	1SS355	Diode, Switching, 90V, 225 mA lfm, High speed	SOD-323	1SS355	Rohm
1	D100	1N5406-T	DIODE, General Purpose, 600V, 3.0A	DO-201AD	1N5406-T	Fairchild
2	D11 D18	MURA160T3	Diode, Rectifier Ultrafast, 1-A, 600-V	SMA	MURA160T3	ON Semi
2	D13-14	MBRB10100	Diode, Schottky, 10A, 100V	TO-263AB	MBRB10100	Vishay
2	D16-17	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
2	D19 D22	BAS40-04	Diode, Dual series Schottky, 40-V	SOT23	BAS40-04LT1	On Semi
2	D3 D20	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
1	F1	2.5A/250V	Fuse, TR5 Series, 2.5A, 250V	0.335	3701250041	Wickmann
1	J1	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
1	L1	10mH	Inductor, Horizontal Style, 2 Phase Common Mode Choke, ±30%	0.902x0.902 inch	FE2X10-4-3	Pulse
1	L2	330uH	Inductor, Low Profile, ±20%	0.510 x 0.710 inch	PE-52627NL	Pulse
1	Q1	PZT2222A	Trans, GP NPN Amplifier, 40Vceo, 1A	SOT-223	PZT2222A	Fairchild

3	Q2-4	SPB12N50	MOSFET, N-ch, 560-V, 11.6A, 380-milliOhms	SMD-220	SPB12N50C3	Infineon
1	R1	6.81k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	0.5	Resistor, Chip, 0.50-Ohms, 1-W, 1%	2512	Std	Std
1	R7	6.19k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	68.1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	21.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	6.04k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	332	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R19	17.4k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R20	475	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R21	2.37k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R25	47.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R27	12.1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R28	220K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R29	68	Resistor, Chip, 1/2W, yy%	1210	Std	STD
1	R30	10k	Resistor, Chip, 1/16-W, 1%	0603	Std	Vishay
1	R100	750	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R15 R22	470k	Resistor, Chip, 470-kOhms, 1/4-W, 1%	1206	Std	Std
3	R16-17 R24	4.75	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R23 R18 R26	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R3-4	511k	Resistor, Chip, 511-kOhms, 1/4-W, 1%	1206	Std	Std
2	R5-6	100k	Resistor, Chip, 100-kOhms, 1/4-W, 1%	1206	Std	Std
2	R8 R10	1.1M	Resistor, Chip, 1/4-W, 1%	1206	Std	Std
1	RT1	2.5 Ohms	Thermistor, NTC, 2.5 Ohms, 6.5-A	0.590 x 0.276	B57237S0259M000	Epcos
1	T1	720 uH	IND, 100W ±7%	28x30 mm	PH9201NL-MX2	Pulse
1	T2	PA0544NL	XFMR, Gate Drive	0.355 X 0.340 inch	PA0544NL	Pulse
1	T3	1.3 mH	Xformer, Resonant 100W ±10%	38x39.5 mm	PH9202NL-MX3	Pulse
1	T4	100:01:01	Transformer, Current Sense, 3KVvac isolation	0.810 x 0.580 inch	PE-64487	Pulse
1	TP5	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
4	TP1-4	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	UCC28810D	IC, LED Lighting Power Controller	SO8	UCC28810D	TI
1	U2	TPS92020	IC, Lighting, Resonant Mode Controller	SO-8	TPS92020	TI
1	U3	TLC272AI	IC, Dual Operational Amplifiers	SO8	TLC272AI	TI
1	U4	TL431DBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431DBZ	TI
1	U5	TCMT1107	IC, Photocoupler	MF4	TCMT1107	Vishay

- 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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