

Filename: PMP7106 REV\_B\_bom.xls

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## PMP7106 REV\_B BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	680nF	Capacitor, MKT, 0.68uF, 305Vac, 10%	0.885 in x 0.370 in	B32923A2684M	Epcos
1	C4	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1206	C3216X7R2A105K	TDK
1	C9	100uF	Capacitor, Aluminum Electrolytic, 100uF, 25V	0.248 inch	EKY-250Exx101MF11D	Nippon ChemiCon
1	C10	4.7nF	Capacitor, Ceramic, 1000V, X7R, 10%	1206	1206ACA472KAT1A	TDK
1	C11	2.2nF	Capacitor, Safety Y1/X1, Ceramic Disk, 250V	0.394 X 0.315 inch Max.	ECKANA222MB	Panasonic
1	C13	2.2nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C15	10pF	Capacitor, Ceramic, 50V, NPO, 10%	0603	Std	muRata
1	C16	47pF	Capacitor, Ceramic, 50V, NPO, 10%	0603	Std	muRata
2	C12 C20	56uF	Capacitor, Aluminum Electrolytic, 56uF, 35V	0.248 inch	EKY-250Exx101MF11D	Nippon ChemiCon
2	C2-3	0.33uF	Capacitor, X2 Class, 0.33uF, 275V, 20%	0.709 x 0.236 inch	Std	Panasonic
2	C5-6	820uF	Capacitor, Aluminum PTH, 63V, 2.8A, 24 milli-Ohm	18 x 25 mm	EKZE630xx821M	Nippon Chemicon
7	C7-8 C14 C17-19 C21	0.1u	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	D4	US1-K	Diode, Rectifier, 1-A, 800-V	SMA	US1-K	Diodes Inc.
1	D5	KBL06	Diode, Bridge Rectifier, 4 A, 600V	KBL	KBL06	Vishay
1	D8	BYV29-400	Diode, Ultrafast, 400V, 8A	TO-220AC	BYV29-400	Vishay
1	D10	18V	Diode, Zener, 1W, 18V	SMA	SMAZ18-13	Diodes Inc.
1	D12	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
1	D13	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor
1	D14	MMBD1505	Diode, Dual , 200-mA, 200 V	SOT23	MMBD1505	Fairchild
1	D15	BAT54LT1	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54LT1	On Semi
1	D16	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
3	D1-3	SMBJ75A	Diode, Transient Voltage Suppressor, 75V, 600Wpk	SMB	SMBJ75A	Fairchild
2	D6-7	BYG10J	Diode, Standard Rectifier, 1.5A, 600V	SMA	BYG10J	Vishay
2	D9 D11	MURA120T3	Diode, Rectifier, 1A, 200-V	SMA	MURA120T3	ON
1	F1	3.15A / 300V	Fuse, Time-Lag, 3.15A, 300V	0.335 inch	3831315000	Wickmann
2	HS1-2	513201	Heatsink, TO-220, Vertical-mount, 15*C/W	0.5x1.37in.	411910B02500	Comair Rotron
1	J1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	L1	470uH	Inductor, SMT, Isat 1.64-A, 786-milliohm	0.484 x 0.484 inch	MSS1278T-474KL	Coilcraft
1	L2	2.5mH	Inductor, Coupled, 1.2A, 0.25 Ohm	0.906 x 0.748 inch	UU15.6V-252LF	GCI
1	L3	Short	Short	0.250 x 0.250 inch		
1	Q1	SPP11N80	Trans, Cool MOS Power Nchan, 800V, 11A, 450 milliohm	TO-220AB	SPP11N80C3	Infineon
1	Q2	MMBT3906LT1	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23	MMBT3906LT1	On Semi
1	Q3	MMBT3904LT1	Trans, NPN, xx-V, yy-mA, zz-W	SOT23	MMBT3904LT1	On Semi
1	R2	1K	Resistor, Chip, 1/2W, 1% anti-surge	1210	ERJ-P14J330U	Panasonic
1	R4	1.21M	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R5	10	Resistor, Chip, 1/8W, 5%	1206	Std	Std
1	R6	0.1	Resistor, Chip, xxW, 1%	2512	STD	STD
1	R8	150K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	4.7	Resistor, Chip, 1/8W, 5%	1206	Std	Std
1	R13	2.2	Resistor, Chip, 1/10-W, 1%	0805	Std	Std
1	R14	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std

1	R15	274k	Resistor, Chip, 1/10W, 1%	0805	Std	Std
1	R16	3.32k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	17.4K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	68.1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R19	2.21k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R20	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R21	0.33	Resistor, Chip, 1-W, 1%	2512	Std	Std
1	R22	14.3k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R23	8.45k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R25	6.19K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R27	20k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R28	47.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R29	499	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R30	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R1 R3	220K	Resistor, Metal Film, 1/4 watt, ± 1%	1206	CRCW1206-xxxx-F	Vishay
2	R11 R26	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R24 R31	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R7 R10 R12	1.1M	Resistor, Metal Film, 1/4 watt, ± 1%	1206	Std	Std
1	T1	G114167LF	Transformer, ±10%	32X38.5 mm	G114167LF	GCI
9	TP1-3 TP5-7 TP9-11	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
2	TP4 TP8	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	U1	UCC28810D	IC, LED LIGHTING POWER CONTROLLER	SO8	UCC28810D	TI
1	U2	TL103WID	IC, Dual Op Amp With Internal Reference	SO8	TL103WID	TI
1	U3	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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