

Filename: PMP4636 REV_B_bom.xls

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PMP4636 REV_B BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	0.22uF	Capacitor, X2 Class, 0.22uF, 300V, 10%	0.709 x 0.236 inch	R46K1322050M2M	Arcotronics (KEMET)
1	C2	4.7nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C3	0.68 uF	Capacitor, Polypropylen, 520Vdc, 10%	0.728 x 0.248 V	R71VI3680AA30K	Arcotronics (KEMET)
1	C4	DNP	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
2	C5	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata
1	C6	10pF	Capacitor, Ceramic, 50V, NPO, 10%	0603	Std	muRata
1	C7	100uF	Capacitor, Aluminum Electrolytic, 100uF, 25V	0.248 inch	EKY-250Exx101MF11D	Nippon ChemiCon
1	C8	47pF	Capacitor, Ceramic, 50V, NPO, 10%	0603	Std	muRata
1	C9	47nF	Capacitor, Ceramic, 250V, X7R, 10%	1206	C3216X7R2E473K	TDK
1	C10	1000pF Y1	Capacitor, Cer. Disc, 250V, Y1	0.394 X 0.315 inch Max.	ECK-ANA102MB	Panasonic
1	C11	47uF	Capacitor, Aluminum Electrolytic, 47uF, 25V	0.197 inch	EKY-250Exx470ME11D	Nippon ChemiCon
2	C12	680uF	Capacitor, Aluminum PTH, 80V, 1.75A, 36 milli-Ohm	18 x 25 mm	EKZE800ESS681MM25S	Nippon Chemicon
1	C13	470nF	Capacitor, Ceramic, 50V, X5R, +/-10%	0805	Std	Std
1	C14	56uF	Capacitor, Aluminum Electrolytic, 56uF, 35V	0.248 inch	EKY-250Exx101MF11D	Nippon ChemiCon
1	C15	10nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
	C16	680uF	Capacitor, Aluminum PTH, 80V, 1.75A, 36 milli-Ohm	18 x 25 mm	EKZE800ESS681MM25S	Nippon Chemicon
	C17	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata
2	D1	BYG10J	Diode, Standard Rectifier,1.5A, 600V	SMA	BYG10J	Vishay
	D2	BYG10J	Diode, Standard Rectifier,1.5A, 600V	SMA	BYG10J	Vishay
1	D3	KBU6J	Diode, Bridge Rectifier, 6 A, 600 V	0.935 X 0.280 inch	KBU6J	Vishay
1	D4	18V	Diode, Zener, 1W, 18V	SMA	SMAZ18-13	Diodes Inc.
2	D5	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
	D6	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
2	D7	MURA120T3	Diode, Rectifier, 1A, 200-V	SMA	MURA120T3	ON
2	D8	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor
1	D9	MURS360	Diode, 3-A, 600-V	SMC	MURS360T3G	ON Semi
1	D10	6.8V	Diode, Zener, 6.8-V, 20-mA, 225-mW, 5%	SOT23	MMBZ5235BLT1	Motorola
	D11	MURA120T3	Diode, Rectifier, 1A, 200-V	SMA	MURA120T3	ON
	D12	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor
1	D13	HFA08TB60	Diode, UltraFast Rectifier, 8-A, 600-V	TO220AC	HFA08TB60	IR
1	D100	62V	Diode, Zener, 62-V, 2-mA, 225-mW, 5%	SOT23	MMSZ5265BT1	Motorola
1	F1	2A	Fuse, Time-Lag, 2A, 300V	0.335 inch	3831200000	Wickmann
1	HS1	647-10-ABPE	Heatsonk, TO-220, Vertical-mount, 8°C/W	1.67 x 1.00 inch	647-10-ABPE	Wakefield
1	HS2	637-10ABP	Heatsink, TO-220, Vertical-mount, 12.7°C/W	0.5x1.37in.	637-10ABP	Wakefield
1	J1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	L1	8mH	Inductor, Common Mode Choke, 2A, 160-milliohm	0.945 x 0.787 inch	ET28H-802	GCI
1	L2	33uH	Inductor, SMT, 1.1A, 310 milliohm	0.250 x 0.250 inch	MSS6132-333ML	Coilcraft
1	L3	680uH	Inductor, Single, 3A, Toroid	1.200 x 01.000 inch	PM2120-681-K-RC	BOURNS
1	Q1	MMBT3904LT1	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23	MMBT3904LT1	On Semi
2	Q2	MMBT3906LT1	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23	MMBT3906LT1	On Semi

	Q3	MMBT3906LT1	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23	MMBT3906LT1	On Semi
1	Q4	STP16N65M5	MOSFET, Nchan, 650V, 12A, 299 millohm	TO-220AB	STP16N65M5	ST
1	R1	33	Resistor, Chip, 1/2W, 1% anti-surge	1210	ERJ-P14J330U	Panasonic
2	R2	1.5M	Resistor, Metal Film, 1/4 watt, ± 1%	1206	Std	Std
	R3	1.5M	Resistor, Metal Film, 1/4 watt, ± 1%	1206	Std	Std
1	R4	11K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R5	15K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	330	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	300K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R8	100K	Resistor, Chip, ¼ W, 5%	1210	STD	STD
	R9	100K	Resistor, Chip, ¼ W, 5%	1210	STD	STD
1	R10	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	4.7	Resistor, Chip, 1/10-W, 1%	0805	Std	Std
1	R12	10	Resistor, Chip, 1/10-W, 1%	0805	Std	Std
1	R13	20k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R14	10k	Resistor, Metal -Mite, 2.5W, ±5%	{Size}	std	Std
	R15	10k	Resistor, Metal -Mite, 2.5W, ±5%	{Size}	std	Std
1	R16	68K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R17	0.39	Resistor, Chip, 0.33-Ohms, 1-W, 1%	2512	Std	Std
2	R18	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R19	2.2	Resistor, Chip, 1/8W, 5%	1206	Std	Std
	R20	10k	Resistor, Metal -Mite, 2.5W, ±5%	{Size}	std	Std
	R21	10k	Resistor, Metal -Mite, 2.5W, ±5%	{Size}	std	Std
	R22	0.39	Resistor, Chip, 0.33-Ohms, 1-W, 1%	2512	Std	Std
1	R23	221	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R24	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R25	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R26	2.67k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R27	47.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R28	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R29	649k	Resistor, Chip, 1/10W, 1%	0805	Std	Std
1	R30	28.7k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R100	10k	Resistor, Chip, 1/10W, 1%	0805	Std	Std
1	R101	12k	Resistor, Chip, 1/10W, 1%	0805	Std	Std
1	T1	210 uH	Transformer, ±10%	41.00 X 47.00 mm	G094205LF	GCI
11	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP4	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP6	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP8	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP10	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone

	TP11	5000	Test Point, Red, 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	TCMT1107	IC, Photocoupler	MF4	TCMT1107	Vishay
1	U3	TL431ADBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431ADBZ	TI

- 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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