

Filename: PMP4715 REV_A_bom.xls

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PMP4715 REV_A BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR	AREA
1	C1	0.22uF	Capacitor, Polypropelene film, 400VDC	1.043 x 0.413 inch	ECWF4224JB	PANASONIC	523,92
1	C2	10nF	Capacitor, Ceramic, 500V, X7R, 10%	1210	12107C103KAT2A	AVX	83,600
1	C3	0.22uF	Capacitor, X2 Class, 0.22uF, 275V, 20%	0.709 x 0.236 inch	R46KI322050M2M	Kemet (Arcotronics)	198,640
2	C4	1000uF	Capacitor, multi pattern, SM 1210 to E case + F THole	0.492 inch	35ZL1000Mxx12.5x25	Rubycon	214,008
	C5	1000uF	Capacitor, multi pattern, SM 1210 to E case + F THole	0.492 inch	35ZL1000Mxx12.5x25	Rubycon	214,008
1	C6	100uF	Capacitor, Aluminum Electrolytic, 100uF, 25V	0.248 inch	EKY-250Exx101MF11D	Nippon ChemiCon	70,686
1	C7	47uF	Capacitor, Aluminum Electrolytic, 47uF, 25V	0.197 inch	EKY-250Exx470ME11D	Nippon ChemiCon	40,471
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
1	C10	56uF	Capacitor, Aluminum Electrolytic, 56uF, 35V	0.248 inch	EKY-250Exx101MF11D	Nippon ChemiCon	70,686
1	C11	10pF	Capacitor, Ceramic, 50V, NP0, 10%	0603	Std	muRata	5650
3	C12	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata	10560
1	C13	DNP	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
1	C14	DNP	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
1	C15	100uF	Capacitor, Aluminum Electrolytic, 100uF, 25V	0.197 inch	EKY-250ESS101MF11D	Nippon ChemiCon	40,471
1	C16	1uF	Capacitor, Ceramic, 25V, X5R, +/-10%	0805	std	std	10560
	C17	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata	10560
	C100	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata	10560
1	D1	KBP06G	Diode, Bridge Rectifier, 1.5A, 600V	0.580 x 0.145 inch	KBP06G	Diodes	106750
2	D2	BYG10J	Diode, Standard Rectifier, 1.5A, 600V	SMA	BYG10J	Vishay	29520
	D3	BYG10J	Diode, Standard Rectifier, 1.5A, 600V	SMA	BYG10J	Vishay	29520
1	D4	US1K	Diode Ultrafast, 1-A, 800-V	SMA	US1K	Diodes Inc.	95000
1	D5	MUR1020CT	Diode, Dual Ultrafast Rectifier, 200V, 10A	TO-220	MUR1020CT	On Semi	8858
2	D6	MURA120T3	Diode, Rectifier, 1A, 200-V	SMA	MURA120T3	ON	29520
1	D7	18V	Diode, Zener, 1W, 18V	SMA	SMAZ18-13	Diodes Inc.	37520
	D8	MURA120T3	Diode, Rectifier, 1A, 200-V	SMA	MURA120T3	ON	29520
1	D9	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild	19380
1	D10	12v	Diode, Zener, 12-V, yy-mA, zz-mW, q%	SOT23	MMBZ5242BLT1	Motorola	13419
2	D11	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor	14105
	D12	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor	14105
1	D13	27V	Diode, Zener, 27-V, 4.6-mA, 225-mW, 5%	SOT23	MMBZ5254BLT1	Motorola	14105
1	F1	1A/250V	Fuse, TR5 Series, 1A, 250V	0.335	3701100041	Wickmann	104,635
1	J2	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
1	L1	20mH	Inductor, 0.5 A, 540 milliohm	0.512 x 0.728 inch	744822120	WE	410836
1	L100	1mH	Inductor, SMT, 0.8A, zzmilohm	0.51x 0.37 inch	DO3340P-105ML	Coilcraft	212800
1	Q1	IRFB9N65A	MOSFET, Nchan, 650V, 8.5A, 930 milliohm	TO-220AB	IRFB9N65A	Vishay	110700
1	Q2	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, Metal -Mite, 2W, ±1%	{Size}	std	Std	{Area}
	R3	22K	Resistor, Metal -Mite, 2W, ±1%	{Size}	std	Std	{Area}
	R4	100K	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
1	R5	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R6	0.022	Resistor, Chip, 1/2W, 1%	1210	STD	STD	24200

1	R7	221	Resistor, Chip, 1/8W, 5%	1206	Std	Std	20000
1	R8	2.2	Resistor, Chip, 1/8W, 5%	1206	Std	Std	20000
2	R9	1.5M	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
3	R10	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R11	75K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R12	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R13	6.98K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R14	1.5M	Resistor, Chip, ¼ W, 5%	1210	STD	STD	30800
	R15	75K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R16	10	Resistor, Chip, 1/10-W, 1%	0805	Std	Std	10560
1	R17	10K	Resistor, Chip, 1/10W, yy%	0805	Std	Std	10560
	R18	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R19	11K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R20	68K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R21	330	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R22	0.5	Resistor, Chip, 0.5-Ohms, 1-W, 1%	2512	Std	Std	35100
1	R23	2.21k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
3	R24	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R25	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R26	DNP	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R27	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	T1	G084231LF	Transformer, Flyback, 10±%	0.964 X 1.240 inch	G084231LF	GCI	1098800
5	TP6	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP8	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP10	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	H11A817A	IC, Optocoupler, 5300-V, 80-160% CTR	0.380 x 0.180 inch	H11A817A	Fairchild	74100

- 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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