

Filename: PMP4573 REV_B_bom.xls

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PMP4573 REV_B BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	2200pF	Capacitor, Leaded, 300 VAC, ±20%	4.00 x 13.00 mm	R413F12205000M	Kemet (Arcotronics)
2	C2	6.8uF	CAP 6.8UF 450V ELECT KXG RAD	0.394 inch	EKXG451ESS6R8MJ20S	Nippon Chemicon
	C3	6.8uF	CAP 6.8UF 450V ELECT KXG RAD	0.394 inch	EKXG451ESS6R8MJ20S	Nippon Chemicon
1	C4	10nF	Capacitor, Polyester, 250V, 10%	0.311 x 0.213 inch	ECQ-E2103KB	Panasonic
1	C5	820uF	Capacitor, Aluminum, 6.3V, 105C, 20%	0.315 inch	EKZE6R3ESS821MH15D	Nippon chemicon
1	C6	220uF	Capacitor, Aluminum, 6.3V, 105C, 20%	0.315 inch	EKZE6R3ESS221MH07D	Nippon chemicon
1	C7	1000pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
1	C8	22uF	Capacitor, Aluminum, SM, 35V	5 x 5.8 mm	EEEFK1V220R	Panasonic
2	C9	100pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	C1608C0G1H101J	TDK
1	C10	47nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C11	47nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H473K	TDK
	C12	100pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	C1608C0G1H101J	TDK
1	C13	2.2nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C14	10uF	Capacitor, Aluminum, SM, 16V, 20%	5 x 5.8 mm	EEEFK1C100R	Panasonic
1	C100	220pF	Capacitor, Ceramic, 100V, X7R, 20%	0805	Std	Std
1	D1	DF10S	Bridge Rectifier, xxxV, 1A, Glass Passivated, SMD	DF-S	DFXXS	Diodes
2	D2	BAS20	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS20	Zetex
1	D3	STTA106U	Diode, Ultrafast, 1-A, 600-V	SMB	STTA106U	ST
	D4	BAS20	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS20	Zetex
2	D5	BAS70	Diode, Schottky, 70-mA, 70-V	SOT23	BAS70	Infineon
	D6	BAS70	Diode, Schottky, 70-mA, 70-V	SOT23	BAS70	Infineon
1	L1	1mH	Inductor, SMT, 100mA, 13.8ohm	0.26x0.09 inch	DO1608C-105ML	Coilcraft
1	L2	3.3uH	Inductor, SMT, 1.8A, 66milliohm	0.189 x 0.189 inch	LPS5030-332ML	Coilcraft
2	Q1	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
	Q2	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
1	Q3	Si7116DN	MOSFET, Fast Switching, NChan, 40V, 16.4A, 7.8milliohm	PWRPAK 1212	Si7116DN	Vishay
1	Q4	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	Q5	IPD60R950C6	MOSFET, N-ch, 600-V, 12-A, 950-milliOhms	DPAK	IPD60R950C6	Infineon
4	R1	560K	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J	Vishay
	R2	560K	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J	Vishay
	R3	560K	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J	Vishay
	R4	560K	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J	Vishay
1	R5	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R6	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	1	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R8	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	22k	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
1	R10	150k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R11	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R12	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std

1	R13	1.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	1.8	Resistor, Chip, 1/10W, 1%	0805	Std	Std
1	R15	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	1k	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
1	R17	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	47k	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
	R19	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R20	33K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R21	12k	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
1	R22	220	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
	R23	33K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R100	47	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std
1	RT1	10 Ohms	Thermistor, NTC, 10 Ohms, 2.8A	0.590 x 0.276 inch	B57237S0100M000	Epcos
1	T1	PA1005.100NL	Transformer, Current Sense, 100:1	0.284 x 0.330 inch	PA1005.100NL	Pulse
1	T2	PA2861	XFMR, Flyback	0.717 X 0.630 inch	PA2861NL	Pulse
	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
1	TP4	5000	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
5	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
1	TP7	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	UCC28600D	IC, Quasi-Resonant Flyback Green Mode Controller	SO8	UCC28600D	Texas Instruments
1	U2	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay
1	U3	TL431BCDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431BCDBZ	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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