

PMP7148 REV_A BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	47uF	Capacitor, Aluminum Electrolytic, 450V	0.571 inch	EKXJ451ESS470ML25S	Nippon Chemi-Con
1	C2	1000uF	Capacitor, Aluminum Electrolytic, 35V	0.492 inch	35V ZL 1000uF 12.5 X 25	Rubycon
1	C3	4.7uF	Capacitor, Ceramic, 50V, X7R, 20%	1210	GRM32ER71H475KA88L	Murata
1	C6	0.01uF	Capacitor, Ceramic, 630V, C0G, 10%	1206	C3216CH2J103K	TDK
1	C7	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226MT	TDK
1	C9	27uF	Capacitor, Aluminum Electrolytic, 25V	0.200 * 0.435 inch	25V ZL 27uF 5 X 11	Panasonic
1	C12	0.047uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H473K	TDK
1	C15	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C16	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C18	0.01uF	CAP, CERM DISC, 250Vac, 20%	.500 X .310	ECKATS103MF6	Panasonic
1	C19	27uF	Capacitor, Aluminum Electrolytic, 25V	0.200 * 0.435 inch	25V ZL 27uF 5 X 11	Rubycon
2	C10 C13	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
3	C11 C14 C17	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
2	C4-5	0.1uF	Capacitor, Film, MKP 338 X2, 275VAC, 20%	.470x.250 inch	2222 338 20104	BC Components
1	D1	ES3D	Diode, 3A, 200V	SMC	ES3D-13-F	Diodes Inc.
1	D2	DF06S	Diode, Bridge, 1-A, 600-V	DF-S	DF06S	Diodes
1	D3	US1K	Diode Ultrafast, 1-A, 800-V	SMA	US1K	Diodes Inc.
1	D4	B160-13	Diode, Schottky, 1-A, 60-V	SMA	B160-13	Diodes Inc.
1	D5	BAS20	Diode, Switching, 150V, 200mA	SOT23	BAS20LT1	On Semiconductor
2	D6-7	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor
1	F1	2A/250V	Fuse, TR5 Series, 2A, 250V	0.335	3701200041	Littlefuse
2	J1-2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	L1	10mH	Inductor, Common-Mode, 0.25A	0.906 x 0.748 inch	UU9.8V-103	GCI
1	Q1	IRFBC30A	MOSFET, N-ch, 600-V, 3.6-A, 2.2-Ohms	TO-220V	IRFBC30A	International Rectifier
1	R3	100k	Resistor, Chip, 1W, 5%	2512	STD	STD
1	R6	499k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	210k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R8	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	41.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	15k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	0.36	Resistor, Chip, 1/4W, 5%	1210	Std	Std
1	R17	1.15k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R1 R5 R19	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R100	357k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R101	110k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R11 R14	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R2 R4	499k	Resistor, Chip, 1/4W, 5%	1210	Std	Std
2	R9-10	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	RT1	20 Ohms	Thermistor, NTC, 20 Ohms	0.394 inch.	B57236S200M	Epcos

1	T1	SRW2425EG-U05V015	Transformer, Custom, Flyback	1.004 x 1.181 inch	SRW2425EG-U05V015	TDK
5	TP1-2 TP4-5 TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
2	TP3 TP6	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	H11A817AS	IC, Optocoupler, 5300-V, 50-160% CTR	0.435 x 0.210 inch	H11A817AS	Fairchild
1	U3	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	Texas Instruments
1	U4	TPS77601D	IC, Fast Transient Response, 0.5-A LDO Voltage Regulator	SO8	TPS77601D	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.