

Filename: PMP5513 REV\_B\_bom.xls

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## PMP5513 REV\_B BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	82uF	Capacitor, Alum Electrolytic 400 V, ±20%	18.00 mm Dia	EKXJ401ESS820MM25S	Nippon Chemi-Con
2	C2	1000uF	Capacitor, Aluminum Electrolytic, 35V	0.492 inch	EKZM350ESS102MK20S	Nippon Chemi-Con
	C3	1000uF	Capacitor, Aluminum Electrolytic, 35V	0.492 inch	EKZM350ESS102MK20S	Nippon Chemi-Con
1	C4	1uF	Capacitor, Ceramic, 50V, X7R, 20%	1206	C3216X7R1H105M	TDK
2	C5	0.22 uF	Capacitor, Film, 275VAC, 20%	0.689 x 0.217	R46KI322050M2M	KEMET (Arcotronics)
	C6	0.22 uF	Capacitor, Film, 275VAC, 20%	0.689 x 0.217	R46KI322050M2M	KEMET (Arcotronics)
1	C7	0.01uF	Capacitor, Polyester Film, 250V, 10%	0.311 x 0.213 inch	ECQ-E2103KB	Panasonic
1	C8	220uF	Capacitor, Aluminum Electrolytic, 16V	0.248 inch	EKZM160ESS221MF11D	Nippon Chemi-con
1	C9	47uF	Capacitor, Aluminum Electrolytic, 25V	0.200 * 0.435 inch	25V ZL 47uF 5 X 11	Panasonic
1	C10	47uF	Capacitor, Ceramic, 16V, X5R, 10%	1210	Std	Std
1	C11	0.022uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
2	C12	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
1	C13	0.047uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H473K	TDK
1	C14	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C15	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C16	680pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std
	C17	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
1	C18	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
1	C19	4700pF	CAP, CERM DISC Y1, 250Vac, 20%	.500 X .310	ECKDNA472ME	Panasonic
2	D1	MURB1620CT	Diode, Ultrafast, 16A, 200V	DDPAK	MURB1620CT	ON Semiconductor
1	D2	30V	Diode, Zener, 30-V, 1W	SMA	SMAZ30	Diodes
1	D3	KBP06M	Diode, Bridge Rectifier, 1.5A, 600V	0.580 x 0.145 inch	KBP06M	Vishay Semiconductors
1	D4	MURA160T3	Diode, Rectifier, 1A, 600V	SMA	MURA160T3	ON Semiconductor
1	D5	SS1H10	Diode, Schottky, 1-A, 100-V	SMA	SS1H10	Vishay General Semi.
1	D6	BAS20	Diode, Switching, 150V, 200mA	SOT23	BAS20LT1	On Semiconductor
1	D7	BAV99	Diode, Dual Ultra Fast, Series, 200-mA, 70-V	SOT23	BAV99	Fairchild
	D8	MURB1620CT	Diode, Ultrafast, 16A, 200V	DDPAK	MURB1620CT	ON Semiconductor
1	F1	2.5A/250V	Fuse, TR5 Series, 2.5A, 250V	0.335	3701250041	Wickmann
1	L1	10mH	Inductor, 1A, 550-milliohm	0.748 x 1.024 inch	ET24V-103	GCI
1	Q1	SPB11N60C3	MOSFET, N-ch, 650-V, 11-A, 380-milliOhms	SMD-220	SPB11N60C3	Infineon
2	R1	56k	Resistor, Metal -Mite, 2.5W, ±5%	{Size}	std	Std
	R2	56k	Resistor, Metal -Mite, 2.5W, ±5%	{Size}	std	Std
2	R3	499k	Resistor, Chip, 1/4W, 5%	1210	Std	Std
	R4	499k	Resistor, Chip, 1/4W, 5%	1210	Std	Std
1	R5	47	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	162k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R8	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R9	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R10	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	499k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

1	R12	5.62k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R13	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R14	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	2.21k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R16	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	43.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	47.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R19	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R20	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R21	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R22	0.25	Resistor, Chip, 1/2W, 5%	2010	Std	Std
1	R23	4.12k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	RT1	2.5 Ohms	Thermistor, NTC, 2.5 Ohms, 6.5-A	0.590 x 0.276	B57237S0259M000	Epcos
1	T2	500 uH	Transformer, Switch Mode $\pm$ 10%	32.10 x 33.50 mm	2642.5001A	Pulse
8	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
1	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	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
1	U1	UCC28600D	IC, Quasi-Resonant Flyback Green Mode Controller	SO8	UCC28600D	Texas Instruments
1	U2	TCMT1107	IC, Photocoupler	MF4	TCMT1107	Vishay
1	U3	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	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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