

Filename: PMP4681REVD 2_bom.xls

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PMP4681REVD 2 BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	100uF	Capacitor, Aluminum, 25V, 280mA rms, 340mOhm	0.260 x 0.276 inch	EEEFK1E101XP	Panasonic
4	C2	4x 10uF	Capacitor, Ceramic, 25V, X5R, 20%	1206	Std	Std
1	C3	4.7uF	Capacitor, Ceramic, 25V, X5R, 10%	0805	Std	Std
	C4	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
3	C5	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
2	C6	open	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C7	270nF	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
2	C8	22uF	Capacitor, Ceramic, 10V, X5R, 20%	1210	Std	Std
1	C9	100uF	Capacitor, Aluminum, 16V, 240mA rms, 360mOhm, 20%	0.260 x 0.276 inch	EEEFK1C101P	Panasonic
	C10	open	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C30	tbd	Capacitor, Ceramic, 50V, X7R, 10%	1206	Std	Std
	C40	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
	C41	22uF	Capacitor, Ceramic, 10V, X5R, 20%	1210	Std	Std
1	C42	1nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	CC40	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	D20	MBR0540T	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530T	OnSemi
3	J1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
	J2	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
5	J4	PEC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PEC36SAAN	Sullins
	J5	PEC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PEC36SAAN	Sullins
	J6	PEC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PEC36SAAN	Sullins
	J7	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
	J8	PEC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PEC36SAAN	Sullins
	J50	PEC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PEC36SAAN	Sullins
1	L1	33uH	Inductor, SMT, 62mOhm, 5.2A sat, 2.3A rms	0.484 x 0.484 inch	MSS1278-333MLD	Coilcraft
1	L40	22nH	Inductor, Air Core Spring, 22 nH, 4A, 5.2 milliOhm,10%	0.270 x 0.175	B07T_LC	Coilcraft
1	R1	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	6.65k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R3	191k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R4	5.76k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

2	R5	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R6	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R8	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	1.91k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R30	tbd	Resistor, Metal Film, 1/4 watt, 1%	1206	Std	Std
6	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
4	TP2	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	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	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP10	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	TPS54620RGY	IC, 1.6V-17V Synchronous Buck PWM Converter with Integrated MOSFET	3.5mm x 3.3mm QFN14	TPS54620RGY	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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