

Filename: PMP4670REVC_AUXPSU_bom.xls							
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PMP4670REVC_AUXPSU BOM							
COUNT	RefDes	Value	Description	Size	Part Number	MFR	Area
1	C1	4700pF	Capacitor, Ceramic, 2KV, X7R, 10%	1812	Std	Std	43,360
2	C2	470pF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	5650
1	C3	220uF	Capacitor, Electrolytic, SMT, 50V	0.457 x 0.406	EEVFK1H221P	Panasonic	225,848
2	C4	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK	28000
	C5	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	C3225X7R1H475M	TDK	28000
1	C6	1nF	Capacitor, Ceramic, 100V, X7R, 10%	0603	STD	STD	5650
2	C7	10uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	Vishay	28000
	C8	10uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	Vishay	28000
4	C9	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK	5650
	C10	470pF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	5650
	C11	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK	5650
2	C12	22uF	Capacitor, Ceramic, 16V, X7R, 15%	1210	C3225X7R1C226MT	TDK	83,600
	C13	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK	5650
1	C14	470pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H471K	TDK	5650
1	C15	470pF	Capacitor, Ceramic, 100V, X7R, 10%	0603	STD	STD	5650
	C16	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK	5650
1	C17	47pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK	5650
1	C18	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK	5650
1	C19	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK	5650
1	C20	6.8nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H561K	TDK	5650
1	C21	OPEN	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H223K	TDK	5650
1	C22	4.7nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK	5650
1	C23	4.7uF	Capacitor, Ceramic, 10V, X5R, 15%	0603	C1608X5R1A475M	TDK	5650
	C24	22uF	Capacitor, Ceramic, 16V, X7R, 15%	1210	C3225X7R1C226MT	TDK	83,600
1	D1	B3100-13-F	Diode, Schottky, 3000-mA, 60-V	SMC	B3100-13F	DIODES Inc.	95000
1	D2	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi	13419
1	D3	B160	Diode, Schottky, 1000-mA, 60-V	SMA	B160	DIODES Inc.	29520
1	D4	BAV99	Diode, Dual Ultra Fast, Series, 200-mA, 70-V	SOT23	BAV99	Fairchild	14105
2	J1	PTC36SAAN	Header, Male 2-pin, 100mil spacing, Rt Angle	0.100 inch x 2	Std	Sullins	
1	J2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST	75525
	J3	PTC36SAAN	Header, Male 2-pin, 100mil spacing, Rt Angle	0.100 inch x 2	Std	Sullins	
1	L1	1uH	Inductor, 1uH, 4.2A, 50milliohm	0.11x0.09 inch	1008PS-102MC	Coilcraft	32400
1	Q1	SiR432DP	MOSFET, NChan, 100V, 6.9A, 33milliohm	PWRPAK S0-8	SiR432DP	Vishay	85057
1	R1	1	Resistor, Chip, 1/10W, 5%	0805	Std	Std	10560

2	R2	24	Resistor, Chip, 1/4W, 1%	1206	Std	Std	15390
1	R3	10k	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std	15390
	R4	24	Resistor, Chip, 1/4W, 1%	1206	Std	Std	15390
1	R5	200k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R6	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R7	100	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std	15390
4	R8	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R9	0.039	Resistor, Chip, 1/2W, 1%	1210	STD	STD	28000
1	R10	30.1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R11	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R12	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R13	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R14	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R15	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R16	24.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R17	OPEN	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R18	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R19	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R20	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R21	24.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	T1	50 uH	Transformer, 7.5W Flyback ±10%	20.00 X 25.00 mm	54621	Payton	594.00 mm
3	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
3	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP6	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
4	TP7	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP8	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP9	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP10	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
1	U1	TPS40210DGQ	IC, 4.5V-52V I/P, Current Mode Controller	DGQ10	TPS40210DGQ	TI	38400
1	U2	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay	47,740
1	U3	TL431DBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431DBZ	TI	16384
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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