

Filename: PMP4687 MAIN REV\_C\_bom.xls

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### PMP4687 MAIN REV\_C BOM

COUNT	RefDes	Value	Description	SIZE	Part Number	MFR	AREA
1	C1	220p	Capacitor, Ceramic, 50V, NPO, 5%	0603	std	std	5650
1	C2	0.22u	Capacitor, Ceramic, 16V, [temp], [tol]	0603	std	std	5650
1	C3	47nF	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	std	5650
1	C4	DNP	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	std	5650
1	C5	0.1u	Capacitor, Ceramic, 25V, [temp], [tol]	0603	std	std	5650
1	C7	1u	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std	5650
2	C8	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1206	C3216X7R2A105K	TDK	15390
1	C9	100p	Capacitor, Ceramic, vvV, [temp], [tol]	0603	std	std	5650
	C10	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1206	C3216X7R2A105K	TDK	15390
2	C11	2.2uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std	83,600
	C12	2.2uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std	83,600
1	C100	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK	5650
1	C101	0.1u	Capacitor, Ceramic, 16V, [temp], [tol]	0603	std	std	5650
1	D1	MBRS360	Diode, 3A, 60V	SMC	STD	STD	95000
1	D2	30V	Diode, Zener, 30-V, yy-mA, 225-mW, 5%	SOT23	MMBZ5256BLT1	ON SEMI	13419
1	D100	5.1V	Diode, Zener, 5.1-V, yy-mA, 225-mW, 5%	SOT23	MMBZ5231BLT1	ON SEMI	13419
3	D101	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
	D102	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
	D103	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
3	J1	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST	141600
	J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST	141600
	J101	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST	141600
1	L1	10u	Inductor, SMT, 2.5Asat, 1.8Arms, 100milliohm	0.236 x 0.236 inch	LPS6225-103ML	Coilcraft	84000
1	Q1	Si3458DV	MOSFET, N-ch, 60-V,3.2-A, 100-milliOhms	TSOP-6	Si3458DV	Vishay	19454
1	Q100	BSS138	MOSFET, N-ch, 50-V, 200-mA, 1.4-Ohms	SOT23	2N7002	Diodes	14105
1	R1	154k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R2	DNP	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
2	R3	10k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R5	0	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R7	4.7	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R8	0.06	Resistor, Metal Film, 1/4 watt, ± 1%	1206	CRCW1206-xxxx-F	Vishay	20,000
1	R9	4.32k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R10	1k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R11	0.068	Resistor, Metal Film, 1/4 watt, ± 1%	1206	CRCW1206-xxxx-F	Vishay	20,000
	R100	10k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R101	100K	Resistor, Chip, 1/16W, x%	0603	Std	Std	5,650
2	R103	100	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
	R104	100	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
3	TP1	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone	
2	TP2	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone	
4	TP4	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10

1	TP5	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
1	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP8	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone	
	TP10	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone	
	TP11	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone	
	TP100	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP101	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP102	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
1	U1	TPS40210DGS	IC, Low Cost Non-Synchronous Boost Controller	DGS10	TPS40210DGS	TI	26780
1	U100	INA193AIDBV	IC, Current Shunt Monitor, -16V to 80V Common-Mode Range	SOT23-5	INA193AIDBV	TI	23200

- 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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