

Filename: PMP5585 REV\_B\_bom.xls

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## PMP5585 REV\_B 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	4.7nF	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	10uF	Capacitor, Ceramic, 25V, [temp], [tol]	1210	Std	std	83,600
1	C9	100p	Capacitor, Ceramic, vvV, [temp], [tol]	0603	std	std	5650
	C10	10uF	Capacitor, Ceramic, 25V, [temp], [tol]	1210	Std	std	83,600
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	C102	47pF	Capacitor, Ceramic, 16V, [temp], [tol]	0603	std	std	5650
1	D1	MBRS1100TR	Diode, Schottky, 1A, 100V, leakage 1mA @ 70V	SMB	VS-MBRS1100TR	Vishay	95000
1	D100	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
1	D101	5.6V	Diode, Zener High-T, 500mW, 5.6V	SOD-323	BZX79B-5V6	NXP	15,500
2	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
1	L1	10u	Inductor, SMT, 2.5Asat, 1.8Arms, 100milliohm	0.236 x 0.236 inch	LPS6225-103ML	Coilcraft	84000
1	L4	10uH	Inductor, SMT, 1.13A, 83milliohm	0.200 x 0.200 inch	MSS5131-103ML	Coilcraft	65
1	Q1	Si4102DY	MOSFET, N-ch, 100-V, 3.8-A, 175-milliOhms	SO8	Si4102DY	Vishay Siliconix	75900
1	R1	165k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R2	DNP	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R3	10k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R4	27.4k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
2	R5	0	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
	R6	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	0.33	Resistor, Metal Film, 1/4 watt, ± 1%	1206	CRCW1206-xxxx-F	Vishay	20,000
1	R10	1k	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R11	0.1	Resistor, Metal Film, 1/4 watt, ± 1%	1206	CRCW1206-xxxx-F	Vishay	20,000
1	R13	6.81K	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
1	R14	0	Resistor, Chip, 1W, xx%	2512	WSL-2512-xx 1% R86	STD	35100
1	R15	100K	Resistor, Chip, 1/16W, 1%	0603	std	std	9100
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	
3	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
1	U1	TPS40210DGS	IC, Low Cost Non-Synchronous Boost Controller	DGS10	TPS40210DGS	TI	26780
1	U2	INA271AID	IC, Voltage Output, Unidirectional Measurement Current-Shunt	SO-8	INA271AID	TI	75900

- 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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