

Filename: PMP3543\_REVB\_bom.xls

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## PMP3543\_REVB BOM

COUNT	RefDes	Value	Description	SIZE	Part Number	MFR
2	C1	220pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	Std	Std
1	C2	10nF	Capacitor, Ceramic, 50V, X7R, 5%	0603	Std	Std
2	C4	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0805	Std	Std
	C5	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0805	Std	Std
1	C6	1uF	Capacitor, Ceramic, 25V, X7R, 10%	0805	Std	Std
	C7	220pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	Std	Std
2	C8	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	Std	Std
	C9	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	Std	Std
2	C10	2.2uF	Capacitor, Ceramic, 100V, X7R, 10%	1812	Std	Std
	C11	2.2uF	Capacitor, Ceramic, 100V, X7R, 10%	1812	Std	Std
1	C13	10uF/35V	Capacitor, Alum.Electrolytic, 35V, Temp 55 to 105 C°, ±20%	6.3 x 11mm	UPW1V100MPD	Nichicon
1	C14	47nF	Capacitor, Ceramic, 50V, X7R, 5%	0603	Std	Std
1	D1	9.1V	Diode, Zener, 9.1-V, 350-mW	SOT-23	BZX84C9V1T	Diodes Inc
1	D2	B2100-13	Diode, Schottky, 2-A, 100-V	SMB	B2100-13	Diodes Inc
2	D3	33V	Diode, Zener, 33-V, 350-mW	SOT-23	BZX84C33T	Diodes Inc
	D4	33V	Diode, Zener, 33-V, 350-mW	SOT-23	BZX84C33T	Diodes Inc
1	L1	15 uH	Inductor, SMT, 15uH, 8A, 16 milliohms	14.2 x 12.8mm	7443551151	Würth Elektronik
1	Q1	MMBT2222A	TRANSISTOR, NPN, HIGH-PERFORMANCE, 500mA	SOT-23	MMBT2222A	Fairchild
1	Q2	Si7852ADP	MOSFET, NChan, 80V, 30A, 21milliohm	PWRPAK S0-8	Si7852ADP	Vishay-Siliconix
2	R1	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	147K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R3	49.9K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R5	49.9K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	249K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	0	Resistor, Chip, 1/10W, 1%	0805	Std	Std
1	R8	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	0.01	Resistor, Chip, 1W, xx%	2512	Std	Std
1	R10	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	0.22	Resistor, Chip, 1/8W, 5%	1206	Std	Std
1	R12	0.15	Resistor, Chip, 1/8W, 5%	1206	Std	Std
	R13	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	U1	TPS40211DGQ	IC, 4.5V-52V I/P, Current Mode Boost Controller	DGQ10	TPS40211DGQ	TI
2	J1	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
	J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
4	TP1	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone

1	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
2	TP3	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
1	TP4	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
	TP5	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP6	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP7	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP8	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone

- 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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