

Filename: PMP5549 REV_B_bom.xls

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PMP5549 REV_B BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
8	C3	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C4	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C5	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C6	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C7	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C8	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C9	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C10	3.3uF	Capacitor, Ceramic, 50-V, X7R, 20%	1210	C3225X7R1H335M	TDK
1	C11	1000uF	Capacitor, Alum Electrolytic 16 V, ±20%	10.00 mm Dia	EKZM160ESS102MJ16S	Nippon Chemi-Con
3	C12	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226MT	TDK
	C13	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226MT	TDK
	C14	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226MT	TDK
1	C15	0.47uF	Capacitor, Ceramic, 100-V, X7R, 20%	1206	C2012X7R2A474M	TDK
3	C16	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
	C17	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C18	1000pF	Capacitor, Ceramic, 2kV, C0G, 10%	1812	Std	Std
2	C21	68uF	Capacitor, Aluminum, 16V, 20%	0.260 x 0.276 inch	EEVFK1C680P	Panasonic
1	C22	0.1uF	Capacitor, Ceramic, 100-V, X7R, 20%	1206	C2012X7R2A104M	TDK
2	C24	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
	C26	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
1	C28	0.047uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C29	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H221K	TDK
1	C30	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
1	C31	0.47uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
1	C32	6800pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C34	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C36	4.7uF	Capacitor, Ceramic, 16V, X5R, 15%	0805	Std	Std
1	C100	1nF	Capacitor, Ceramic, 100V, 10%	0805	C0805C102KAIRACTV	KEMET
	C101	68uF	Capacitor, Aluminum, 16V, 20%	0.260 x 0.276 inch	EEVFK1C680P	Panasonic
	C102	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C103	2.2uF	Capacitor, Ceramic, 10V, X5R, 10%	0805	C2012X5R1A225K	TDK
3	D1	ES1D	Diode, Super Fast Rectifier, 200V, 1A	0.220 x 0.115 inch	ES1D	Diodes
4	D2	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
2	D3	8.2V	Diode, Zener, 8.2-V	SOT23	BZX84C8V2LT1	ON Semiconductor
	D4	8.2V	Diode, Zener, 8.2-V	SOT23	BZX84C8V2LT1	ON Semiconductor
	D5	ES1D	Diode, Super Fast Rectifier, 200V, 1A	0.220 x 0.115 inch	ES1D	Diodes
	D6	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
	D7	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi

	D9	ES1D	Diode, Super Fast Rectifier, 200V, 1A	0.220 x 0.115 inch	ES1D	Diodes
	D18	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
2	D100	MBRS1100	Diode, Schottky, 1A, 100V	SMB	MBRS260	ON Semi
	D101	MBRS1100	Diode, Schottky, 1A, 100V	SMB	MBRS260	ON Semi
1	D102	10V	Diode, Zener, 10-V	SOT23	BZX84C10VLT1	ON Semiconductor
3	J1	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
	J2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
	J100	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	L1	15uH	Inductor, SMT Power, 15.2A, 2.05 milliohm	1.100 x 1.100 inch	SER2915-153KL	Coilcraft
1	L3	1mH	Inductor, SMT, 70mA, 13.8ohm	0.26x0.09 inch	DO1608C-105ML	Coilcraft
1	L100	1.5mH	Inductor, SMT, 0.26A, 4.6-ohm	0.260 x 0.260 inch	LPS6235-155ML	Coilcraft
2	Q1	FZT655	Bipolar, NPN, 150V, 1A	SOT223	FZT655	Zetex
	Q2	FZT655	Bipolar, NPN, 150V, 1A	SOT223	FZT655	Zetex
3	Q3	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
	Q4	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	Q5	Si9407BD	MOSFET, P-ch, 60-V, 4.7-A, 120-milliOhms	SO8	Si9407BD	Vishay-Siliconix
2	Q6	Si7460DP	MOSFET, NChannel, 60V, 18 A, 9.6millohm	PWRPAK S0-8	Si7460DP	Vishay-Siliconix
	Q7	Si7460DP	MOSFET, NChannel, 60V, 18 A, 9.6millohm	PWRPAK S0-8	Si7460DP	Vishay-Siliconix
1	Q9	Si7370DP	MOSFET, NChannel, 60V, 15.8 A, 11millohm	PWRPAK S0-8	Si7370DP	Vishay-Siliconix
2	Q11	Si7456DP	MOSFET, NChannel, 100V, 9.3 A, 25millohm	PWRPAK S0-8	Si7456DP	Vishay-Siliconix
	Q12	Si7456DP	MOSFET, NChannel, 100V, 9.3 A, 25millohm	PWRPAK S0-8	Si7456DP	Vishay-Siliconix
1	Q13	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
	Q14	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	R1	4.02k	Resistor, Chip, 1/4W, 5%	1210	Std	Std
1	R2	2.49k	Resistor, Chip, 1/4W, 5%	1210	Std	Std
1	R3	0.5	Resistor, Chip, 1/10W, yy%	0805	Std	Std
1	R4	1k	Resistor, Chip, 1/10W, yy%	0805	Std	Std
3	R5	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	80.6k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	6.98k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R10	24.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	887	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	86.6k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	110k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
5	R16	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R18	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R19	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R21	499	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R22	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R23	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R24	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

	R25	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R26	47.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R27	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R32	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R33	2.61k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R100	10	Resistor, Chip, 1/2W, 1%	2010	STD	Vishay
1	T1	PA1005.050NL	XFMR, Current Sense	0.284 x 0.330 inch	PA1005.050NL	Pulse
1	T2	PH9140NL	Transformer, Forward	1.050 x 1.050 inch	PH9140NL	Pulse
3	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
2	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
1	U2	UCC2897APW	IC, Current-Mode Active Clamp PWM Controller	PW20	UCC2897APW	Texas Instruments
1	U5	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay
1	U6	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	Texas Instruments
1	U100	LP2985A-50DBV	IC, 150 mA Low-Noise LDO Regulator With Shutdown, 5 V	SOT23-5	LP2985A-50DBV	Texas Instruments

- 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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