

Filename: PMP5563 REV_A_bom.xls

Date: 07/31/2010

PMP5563 REV_A BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
2	C1	6.8uF	Capacitor, Aluminum, 400V, 105C, 20%	0.315 inch	400AX680Mxxxxy8x10.8mm	Rubycon
	C2	6.8uF	Capacitor, Aluminum, 400V, 105C, 20%	0.315 inch	400AX680Mxxxxy8x10.8mm	Rubycon
1	C3	0.047uF	Capacitor, Ceramic, 630V, X7R, 20%	1210	C3225X7R2J473M	TDK
1	C4	330pF	Capacitor, Ceramic, 630V, C0G, NP0, ±5%	1206	Std	Std
3	C5	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK
	C6	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK
	C7	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK
1	C8	1200uF	Capacitor, Aluminum, 6.3V, 105C, 20%	0.315 inch	EKZM6R3ESS122MJC5S	Nippon Chemi-Con
3	C9	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C10	1000pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
1	C11	470pF	CAP 250VAC CERAMIC Y2/X1	0.236 x 0.315 inch	ECK-NVS471KB	Panasonic
1	C12	10pF	Capacitor, Ceramic, 50V, C0G, 10%	0603	STD	STD
	C13	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C14	47uF	Capacitor, Aluminum, SM, ±20%, 35V,	D Code	EEEFK1V470P	Panasonic
	C15	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C16	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C17	1000pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C100	0.22uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
1	D1	RH06-T	Diode, Bridge, 0.5-A, 600-V	MiniDIP	RH06-T	Diodes
2	D2	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
1	D3	MURA160T3	Diode, Rectifier, 1A, 600V	SMA	MURA160T3	ON Semiconductor
	D4	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
1	D5	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
1	D100	20V	Diode, Zener, 20-V, 350-mW	SOT-23	BZX84C20LT1	ON Semi
1	L1	1mH	Inductor, Power, 0.25A, 3.4 Ohms	0.350 x 0.300 inch	RFB0807-102L	Coilcraft
1	L2	560nH	Inductor, SMT, 7.7A, 10milliohm	0.235 x 0.380	DO1813HC-561ML	Coilcraft
2	Q1	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
	Q2	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
1	Q3	Si7116DN	MOSFET, Fast Switching, NChan, 40V, 16.4A, 7.8milliohm	PWRPAK 1212	Si7116DN	Vishay
1	Q4	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	Q5	FQD2N60C	MOSFET, N-ch, 600V, 1.9A, 4.7 ohm	DPAK	FQD2N60C	Fairchild
1	R1	1	Resistor, Chip, 1/16W, 5%	0805	Std	Std
1	R2	100	Resistor, Chip, 1/10W, 5%	0805	CRCW0805-xxx-J	Vishay
1	R3	221k	Resistor, 1/4 watt, 5%	1206	Std	Std
2	R4	3MEG	Resistor, 1/4 watt, 5%	1206	Std	Std
1	R5	4.7	Resistor, Fusible Power, 1W	0.300 X 0.100 inch	NFR0100004708JR500	Vishay
	R6	3MEG	Resistor, 1/4 watt, 5%	1206	Std	Std
1	R7	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std

1	R8	470	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R9	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R10	22k	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
1	R11	169k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R12	10	Resistor, Chip, 1/16W, 5%	0805	Std	Std
1	R13	51.1k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
2	R14	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R15	68.1k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R16	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R17	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R19	20k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
	R20	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R21	3.83k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R101	47	Resistor, Chip, 1/16W, 5%	0805	Std	Std
1	R102	220	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	PA1005.100NL	Transformer, Current Sense, 100:1	0.284 x 0.330 inch	PA1005.100NL	Pulse
1	T2	SP-EFD20	Transformer, Flyback	0.840 x 1.150 inch	SP-EFD20, 184281-C	Kaschke
1	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
3	TP2	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
	TP3	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP5	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	UCC28610D	IC, Flyback Green-Mode Controller	SO8	UCC28610D	TI
1	U2	TCMT1107	IC, Photocoupler	MF4	TCMT1107	Vishay
1	U3	TLV431A	IC, Low-Voltage Adjustable Shunt Regulator	SOT23-3	TLV431AIDBZ	TI

- 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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