Filename: PMP5539 REV_A_bom.xls
Date: 07/26/2010

PMP5539 REV_A BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	0.068uF	Capacitor, Film, 275VAC, 20%	0.689 x 0.217 inch	ECQU2A683ML	Panasonic
1	C2	22uF	Capacitor, multi pattern, SM 1210 to E case + F THole	12.5mm	EKXG401ESS220MK20S	Nippon Chemi-Con
1	C3	0.01uF	Capacitor, Ceramic, 250V, C0G, 10%	1206	Std	TDK
4	C4	10uF	Capacitor, Ceramic, 16V, X7R, 10%	1206	C3216X7R1C106K	TDK
	C5	10uF	Capacitor, Ceramic, 16V, X7R, 10%	1206	C3216X7R1C106K	TDK
1	C6	120uF	Capacitor, Aluminum Electrolytic, 16V	0.248 inch	16V ZL 120uF 6.3 X 11	Rubycon
4	C7	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
	C8	10uF	Capacitor, Ceramic, 16V, X7R, 10%	1206	C3216X7R1C106K	TDK
1	C9	22pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std
3	C10	470pF	CAP 250VAC CERAMIC Y2/X1	0.236 x 0.315 inch	ECK-NVS471KB	Panasonic
1	C11	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	C1608X5R0J475M	TDK
	C12	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C13	56uF	Capacitor, Aluminum Electrolytic, 35V	0.248 inch	35V ZL 56uF 6.3 X 11	Rubycon
	C14	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C15	dnp	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std
1	C16	22uF	Capacitor, Ceramic, 10V, X5R, 20%	1210	C3225X5R1A226M	TDK
	C17	10uF	Capacitor, Ceramic, 16V, X7R, 10%	1206	C3216X7R1C106K	TDK
	C18	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C19	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C20	0.022uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H223K	TDK
1	C21	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
	C22	470pF	CAP 250VAC CERAMIC Y2/X1	0.236 x 0.315 inch	ECK-NVS471KB	Panasonic
	C23	470pF	CAP 250VAC CERAMIC Y2/X1	0.236 x 0.315 inch	ECK-NVS471KB	Panasonic
1	C24	1000pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std
1	D1	RH06-T	Diode, Bridge, 0.5-A, 600-V	MiniDIP	RH06-T	Diodes
1	D2	MURA160T3	Diode, Rectifier, 1A, 600V	SMA	MURA160T3	ON Semiconductor
1	D3	B3100	Diode, Schottky, 3-A, 100-V	SMC	B3100	Diodes Inc.
1	D4	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
1	D5	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
1	D6	10V	Diode, Zener, 10-V, 350-mW	SOT-23	BZX84C10LT1	ON Semi
3	J1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
	J2	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
	J3	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	L1	AF5169-146	Inductor, AC-Line Common Mode Choke	0.539 x 0.606 inch	AF5169-146	Vitec
2	L2	10uH	Inductor, Power, 3A	0.350 x 0.300 inch	RFB0807-100L	Coilcraft
	L3	10uH	Inductor, Power, 3A	0.350 x 0.300 inch	RFB0807-100L	Coilcraft
1	L4	47uH	Inductor, SMT, 220mA, 3.2-Ohm	0.118 x 0.118 inch	LPS3010-473ML	Coilcraft
1	L5	2.2uH	Inductor, SMT, 2.3A, 70milliohm	0.153 x 0.153 inch	LPS4018-222ML	Coilcraft
1	Q1	FQU2N60C	Trans, Nchan, 600V, 1.9A, 4.7 ohm	TO-220AB	FQU2N60C	Fairchild
1	Q2	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002	Diodes

1	R1	10	Resistor, Fusible Power, 1W	0.300 X 0.100 inch	NFR0100001008JR500	Vishay
1	R2	200k	Resistor, Chip, 1/4W, 5%	1210	Std	Std
2	R3	3MEG	Resistor,1/4 watt, 5%	1206	Std	Std
	R4	3MEG	Resistor,1/4 watt, 5%	1206	Std	Std
1	R5	1	Resistor, Chip, 1/16W, 5%	0805	Std	Std
1	R6	187k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R7	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R8	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	560k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R10	180k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	75k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R12	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	60.4k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	1M	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	191k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R16	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R19	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R20	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R21	20k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R22	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R23	3.48k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R24	470k	Resistor,1/4 watt, 5%	1206	Std	Std
	R25	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	250 uH	Transformer, ±10% @100KHz	0.950 x 0.950 inch	AF5163A	Vitec Electronics Corp.
9	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
4	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP6	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
4	TP7	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP8	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP10	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP11	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP12	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP13	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP15	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	TP16	5000	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
	TP17	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP18	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP19	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP20	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP22	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	U1	TPS62120DCN	IC, 15V, 75mA High Efficient Buck Converter with Snooze Mo	SSOP	TPS62120DCN	TI

1	U2	UCC28610D	IC, Flyback Green-Mode Controller	SO8	UCC28610D	TI
1	U3	TPS62130RGT	IC, 17V 3A Ultra Small Step-Down Converter	QFN	TPS62130RGT	TI
1	U4	H11A817A	IC, Optocoupler, 5300-V, 80-160% CTR	0.380 x 0.180 inch	H11A817A	Fairchild
1	U5	TL431IDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431IDBZ	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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