Filename: PMP5530REVD_bom.xls

Date: 09/03/2010

PMP5530REVD BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr	Area
2	C1	330uF	Capacitor, Aluminum, 50V, ±20%	0.543 x 0.543	EEVFK1H331Q	Panasonic	343,107
4	C2	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	C3225X7R1H475M	TDK	24200
	C3	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	C3225X7R1H475M	TDK	24200
2	C5	1uF	Capacitor, Ceramic, 50V, X7R, ±10%	1206	Std	Std	15390
	C6	1uF	Capacitor, Ceramic, 50V, X7R, ±10%	1206	Std	Std	15390
1	C7	2.2uF	Capacitor, Ceramic, 16V, X5R, 10%	0603	Std	Std	5650
2	C8	100nF	Capacitor, Ceramic, 16V, X7R	0402	Std	Std	2800
1	C9	15nF	Capacitor, Ceramic, vvV, [temp], [tol]	0402	Std	Std	2800
1	C10	15nF	Capacitor, Ceramic, 50V, X7R, ±10%	0402	Std	Std	2800
2	C11	1000uF	Capacitor, Aluminum, 25V, ±20%	0.543 x 0.543	EEVFK1E102Q	Panasonic	343,107
4	C13	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	C3225X7R1E106M	TDK	24200
	C14	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	C3225X7R1E106M	TDK	24200
1	C15	100nF	Capacitor, Ceramic, 16V, X7R, ±10%	0402	Std	Std	2800
2	C16	2.2nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C17	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	C3225X7R1E106M	TDK	24200
	C18	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	C3225X7R1E106M	TDK	24200
	C19	1000uF	Capacitor, Aluminum, 25V, ±20%	0.543 x 0.543	EEVFK1E102Q	Panasonic	343,107
3	C21	100nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C22	100nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
1	C23	1uF	Capacitor, Ceramic, 6.3V, X5R, ±10%	0402	Std	Std	2800
2	C24	1uF	Capacitor, Ceramic, 6.3V, X7R, 15%	0603	Std	Std	5650
1	C25	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C26	100nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
1	C27	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 10%	0603	Std	Std	5650
	C28	2.2nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C29	100nF	Capacitor, Ceramic, 16V, X7R	0402	Std	Std	2800
1	C30	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C31	330uF	Capacitor, Aluminum, 50V, ±20%	0.543 x 0.543	EEVFK1H331Q	Panasonic	343,107
	C32	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	C3225X7R1H475M	TDK	24200
	C33	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	C3225X7R1H475M	TDK	24200
	C100	1uF	Capacitor, Ceramic, 6.3V, X7R, 15%	0603	Std	Std	5650
1	D1	13V	Diode, Zener, 13V, 350mW	SOT-23	BZX84C13-T	Diodes	14105
1	D2	BAS16	Diode, Switching, 150mA, 75V, 350mW	SOT23	BAS16	Vishay	14105
2	D3	ZHCS756	Diode, Schottky, 750-mA, 60-V	SOT-23	ZHCS756	Diodes	14105

	D4	ZHCS756	Diode, Schottky, 750-mA, 60-V	SOT-23	ZHCS756	Diodes	14105
2	D5	MBRS540	Diode, Schottky, 5A, 40V	SMC	MBRS540T3	ON Semiconductor	95000
	D6	MBRS540	Diode, Schottky, 5A, 40V	SMC	MBRS540T3	ON Semiconductor	95000
4	J1	L35	Lug, Copper, 25A, #8AWG - #14AWG	0.375 x 0.812 inch	L35	Thomas & Betts	484500
	J2	L35	Lug, Copper, 25A, #8AWG - #14AWG	0.375 x 0.812 inch	L35	Thomas & Betts	484500
	J3	L35	Lug, Copper, 25A, #8AWG - #14AWG	0.375 x 0.812 inch	L35	Thomas & Betts	484500
	J4	L35	Lug, Copper, 25A, #8AWG - #14AWG	0.375 x 0.812 inch	L35	Thomas & Betts	484500
2	L1	6.8uH	Inductor, SMT Power, 20Arms, 2.05milliohm	1.100 x 1.100 inch	SER2915H-682	Coilcraft	1276900
	L2	6.8uH	Inductor, SMT Power, 20Arms, 2.05milliohm	1.100 x 1.100 inch	SER2915H-682	Coilcraft	1276900
1	Q1	FZT491	Transistor, NPN, 60V, 1A	SOT223	FZT491	Zetex	98600
1	Q2	MMBT3906LT1	Bipolar, PNP, 40V, 200mA, 225mW	SOT23	MMBT3906LT1	On Semi	14105
1	Q3	MMBT3904LT1	Bipolar, NPN, 40V, 200mA, 350mW	SOT23	MMBT3904LT1	On Semi	14105
6	Q4	BSC093N04	MOSFET, Nch, 40V, 26A, 9.3 milliohm	TDSON-8	BSC093N04LS G	Infineon	90720
	Q5	BSC093N04	MOSFET, Nch, 40V, 26A, 9.3 milliohm	TDSON-8	BSC093N04LS G	Infineon	90720
4	Q6	BSC035N04	MOSFET, Nch, 40V, 58A, 3.5milliohm	TDSON-8	BSC035N04LS G	Infineon	90720
	Q7	BSC035N04	MOSFET, Nch, 40V, 58A, 3.5milliohm	TDSON-8	BSC035N04LS G	Infineon	90720
	Q8	BSC035N04	MOSFET, Nch, 40V, 58A, 3.5milliohm	TDSON-8	BSC035N04LS G	Infineon	90720
	Q9	BSC035N04	MOSFET, Nch, 40V, 58A, 3.5milliohm	TDSON-8	BSC035N04LS G	Infineon	90720
	Q10	BSC093N04	MOSFET, Nch, 40V, 26A, 9.3 milliohm	TDSON-8	BSC093N04LS G	Infineon	90720
	Q11	BSC093N04	MOSFET, Nch, 40V, 26A, 9.3 milliohm	TDSON-8	BSC093N04LS G	Infineon	90720
	Q100	BSC093N04	MOSFET, Nch, 40V, 26A, 9.3 milliohm	TDSON-8	BSC093N04LS G	Infineon	90720
	Q101	BSC093N04	MOSFET, Nch, 40V, 26A, 9.3 milliohm	TDSON-8	BSC093N04LS G	Infineon	90720
1	R1	1K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
2	R2	47.5K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
1	R3	4.75K	Resistor, Chip, 1%, 1/16W	0805	Std	Std	10560
2	R4	100k	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
1	R5	22.1K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
	R6	47.5K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
1	R7	45.3K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
1	R8	1M	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R9	23.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R10	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R11	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R12	267	Resistor, Chip, 1/16W, x%	0603	Std	Std	5,650
1	R13	10K	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R14	348k	Resistor, Chip, 1/16W, 10%	0402	Std	Std	2800
	R15	10K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
2	R16	1	Resistor, Metal Film, 1/4 watt, 5%	1206	Std	Std	15390
4	R17	33k	Resistor, Chip, 0.1%, 1/16W	0603	Std	Std	5,650

	R18	33k	Resistor, Chip, 0.1%, 1/16W	0603	Std	Std	5,650
1	R19	619	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
	R20	100k	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
4	R21	22k	Resistor, Chip, 0.1%, 1/16W	0603	Std	Std	5,650
	R22	22k	Resistor, Chip, 0.1%, 1/16W	0603	Std	Std	5,650
2	R23	2	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5650
4	R24	0	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
	R25	0	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
1	R26	200K	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
	R27	0	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
	R28	0	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
1	R29	10	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
	R30	2	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5650
	R31	1	Resistor, Metal Film, 1/4 watt, 5%	1206	Std	Std	15390
	R32	10K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
3	R33	10K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
	R34	33k	Resistor, Chip, 0.1%, 1/16W	0603	Std	Std	5,650
	R35	33k	Resistor, Chip, 0.1%, 1/16W	0603	Std	Std	5,650
1	R36	1.33K	Resistor, Chip, 1%, 1/16W	0603	Std	Std	5,650
	R37	22k	Resistor, Chip, 0.1%, 1/16W	0603	Std	Std	5,650
	R38	22k	Resistor, Chip, 0.1%, 1/16W	0603	Std	Std	5,650
1	R39	100k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	SH1		Short jumper				
4	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
5	TP2	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP4	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
4	TP6	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP7	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP8	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP9	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP10	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP11	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP12	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
	TP13	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
1	U1	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	TI	16384
1	U2	TPS40140RHH	IC, 2-Phase PWM Controller, QFN	QFN-36	TPS40140RHH	Texas Instruments	90,000

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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