Filename: PMP5582REVB_bom.xls
Date: 11/18/2010

PMP5582REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
3	C1	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	Std
6	C2	4.7uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	Std
	C3	4.7uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	Std
	C4	4.7uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	Std
	C5	4.7uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	Std
	C6	4.7uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	Std
	C7	4.7uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	Std
2	C8	100pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std
1	C9	100nF	Capacitor, Ceramic, 25V, X7R, 15%	0603	Std	Std
1	C10	10nF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Std
	C11	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	Std
2	C12	1nF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Std
	C13	100pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std
1	C14	open	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Std
	C15	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	Std
	C16	1nF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Std
1	C17	open	Capacitor, Ceramic, 25V, X7R, 15%	0603	Std	Std
1	D1	MBRS340T3	Diode, Schottky, 3.0A, 40V	SMC	MBRS340T3	ON Semiconductor
1	D2	BAS40	Diode, Schottky, 70mA, 40V	SOT23	BAS40	Vishay
2	D3	5.1V	Diode, Zener, 5.1V, 225mW, 5%	SOT23	BZX84C5V1E	ON Semiconductor
	D4	5.1V	Diode, Zener, 5.1V, 225mW, 5%	SOT23	BZX84C5V1E	ON Semiconductor
2	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
2	J3	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
	J4	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
1	L1	33uH	Inductor, SMT, 45mOhm, 4.2A rms, 5.5A sat, 20%	12.00 x 12.00 mm	7447709330	WE
1	Q1	SQJ848EP	MOSFET, NChan, 40V, 40A, 11mOhm	PWRPAK S0-8	SQJ848EP	Vishay
2	Q2	2N7002K	MOSFET, N-ch, 60V, 300mA, 2 Ohms	SOT23	2N7002K	Vishay
	Q3	2N7002K	MOSFET, N-ch, 60V, 300mA, 2 Ohms	SOT23	2N7002K	Vishay
1	Q4	MMBT2907	Transistor, PNP, -60V, -600mA, 225W	SOT23	MMBT2907	OnSemi
1	R1	0.033	Resistor, Chip, 1/4W, 1%	1206	Std	Std
1	R2	475k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R3	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std

2	R4	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R5	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	10	Resistor, Chip, 1/4W, 1%	1206	Std	Std
1	R7	1.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R8	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	0.018	Resistor, Chip, 1/4W, 1%	1210	Std	Std
2	R10	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R11	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	47.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	10.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R14	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	30.1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R17	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R18	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R19	12.4k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R20	5.62k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
5	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
3	TP2	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP4	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
	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP8	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	INA193A-Q1	IC, Current Shunt Monitor, 20V/V	SOT23-5	INA193AQDBVRQ1	TI
1	U2	TPS40210-Q1	IC, 4.5V-52V I/P, Current Mode Boost Controller	DGQ10	TPS40210QDGQRQ1	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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