Filename: PMP5879_REVA_bom.xls
Date: 11/15/2010

PMP5879_REVA BOM

COUNT	RefDes	VALUE	Description	Size	Part Number	MFR
3	C1, C2, C3	1000uF	Capacitor, Aluminum, 6.3V, 105 deg C, 20%	0.315 inch	6.3ZL1000M10x12.	Rubycon
4	C10, C15, C20, C21	470pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	{Part Number}	{MFR}
4	C101, C201, C301, C401	100pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	{Part Number}	{MFR}
5	C105, C155, C205, C305, C405	10uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0805	GRM40yyyxxxKvv	muRata
12	C107, C109, C112, C207, C209, C212, C307, C309, C312, C407, C409, C412	47uF	Capacitor, Ceramic, 47uF, 16V, X5R	1210	GRM32ER61C476I	Murata
4	C108, C208, C308, C408	3300pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	std	std
8	C113, C114, C213, C214, C313, C314, C413, C414	DNP	Capacitor, Ceramic, open, 16V, X5R	1210	DNP	TBD
4	C115, C215, C315, C415	330uF	Capacitor, Aluminum, SMT, 2V, 7mOhms, 20%	7343(D)	EEFSD0D331R	Panasonic
2	C14, C17	4.7uF	Capacitor, Ceramic, 10V, X5R, 20%	0603	GRM39yyyxxxKvvv	muRata
1	C151	0.22uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	GRM39yyyxxxKvvv	muRata
2	C152, C153	0.1uF	Capacitor, Ceramic, 25V, X7R, 15%	0603	GRM39yyyxxxKvvv	muRata
1	C154	1uF	Capacitor, Ceramic, 25V, X5R, 20%	0603	Std	Std
9	C25, C102, C111, C202, C211, C302, C311, C402, C411	1uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0402	{Part Number}	{MFR}

19	C4, C18, C19, C103, C104, C106, C110, C203, C204, C206, C210, C303, C304, C306, C310, C403, C404, C406, C410	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	0402	GRM155R71C104K	Murata
10	C5, C6, C7, C8, C9, C11, C12, C13, C16, C22	0.01uF	Capacitor, Ceramic, 50V, X7R, 15%	0402	{Part Number}	{MFR}
14	D101, D102, D103, D153, D154, D201, D202, D203, D301, D302, D303, D401, D402, D403	MBR0530TxG	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530TxG	On Semi
1	D151	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54-V-GS08	Vishay-Liteon
1	D152	RED	Diode, LED, Red Clear, 20mcd	0.079 X 0.049	LTST-C170CKT	Lite On
5	J1, J101, J201, J301, J401	ED120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED120/2DS	OST
5	J102, J151, J202, J302, J402	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
1	J2	AWHW10G-0202-T-R	Connector, Male Straight 2x5 pin, 100mil spacing, 4 Wall	0.338 x 0.788 in	AWHW10G-0202-T	Assmann Electronics
4	L101, L201, L301, L401	220nH	Inductor, SMT, 23A, 2.5-milliohm typ	0.255 x 0.270 in	PIMB063T-R22MS	Cyntec
1	Q101	CSD86350Q5D	MOSFET, Dual N-Chan, TBD-V, TBD-A	QFN-8 POWER	CSD86350Q5D	TI
1	Q151	CSD16407Q5	MOSFET, NChan, 25V, 31A, 2.5 milliOhm	QFN5X6mm	CSD16407Q5	TI(Ciclon)
1	Q201	CSD86330Q3D	MOSFET, Synchronous Buck NexFET Power Block	QFN-8 POWER	CSD86330Q3D	TI
1	Q301	CSD16404Q5A-R	MOSFET, NChan, 25V, 5.7milliOhm, 6.5nC	QFN5X6mm	CSD16404Q5A-R	TI
1	Q302	CSD16403Q5A	MOSFET, NChan, 25V, 2.9 milliOhm, 13.3nC	QFN5X6mm	CSD16403Q5A	TI
1	Q401	CSD16406Q3	MOSFET, NChan, 25V, 5.9 milliOhm, 5.8nC	QFN3.3X3.3mm	CSD16406Q3	TI
1	Q402	CSD16340Q3	MOSFET, NChan, 25V, 4.3 milliOhm, 6.5nC	QFN3.3X3.3mm	CSD16340Q3	TI
12	R10, R11, R12, R13, R101, R102, R201, R202, R301, R302, R401, R402	2.49k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
4	R103, R203, R303, R403	20k	Resistor, Chip, 1/16W, 1%	0402	Std	Std

8	R106, R113, R206, R213, R306, R313, R406, R413	7.5k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
4	R109, R209, R309, R409	1.5k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
12	R110, R114, R115, R210, R214, R215, R310, R314, R315, R410, R414, R415	1	Resistor, Chip, 1/16W, 5%	0402	Std	Std
4	R111, R211, R311, R411	0.47	Resistor, Chip, 1/2W, 5%	1210	STD	STD
4	R112, R212, R312, R412	4.99k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R151	8.06k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R152	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R153	10k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R154	331	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
2	R155, R160	10	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
3	R156, R157, R158	0.05	Resistor, Chip, 1W, 5%	2512	Std	Std
1	R159	0.005	Resistor, Chip, 1W, 5%	2512	Std	Std
3	R161, R162, R163	DNP	Resistor, Chip, 1W, 5%	2512	Std	Std
4	R19, R21, R23, R43	1k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
2	R2, R5	133k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
7	R20, R22, R25, R27, R28, R39, R41	100k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
5	R26, R37, R38, R42, R44	10	Resistor, Chip, 1/16W, 5%	0402	Std	Std
1	R36	1 M	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R4	13.7k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
4	R40, R46, R47, R48	51	Resistor, Chip, 1/16W, 5%	0402	Std	Std
1	R45	0.2	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay

29	R7, R8, R24, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R104, R105, R204, R205, R304, R305, R404, R405	10k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
9	R99, R107, R108, R207, R208, R307, R308, R407, R408	0	Resistor, Chip, 1/16W, 5%	0402	Std	Std
4	S1, S2, S3, S4	76SB04T	Switch, 4-pole DIP, Raised Rocker	0.38 x 0.40 inch	76SB04T	Grayhill
1	S5	KSC221J	Switch, Momentary, Sealed Tact, 32V, 50mA	0.394 x 0.260 ir	KSC221J	ITT
5	TH4, TH5, TH6, TH7, TH8		Thru Hole, 15 mil, plated			
4	TP1, TP2, TP3, TP4	5016	Test Point, SM, 0.150 x 0.090	0.185 x 0.135 ir	5016	Keystone
4	TP101, TP201, TP301, TP401	5015	Test Point, SMT	0.105 x 0.040 ir	5015	Keystone
9	TP103, TP105, TP153, TP203, TP205, TP303, TP305, TP403, TP405	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 ir	5001	Keystone
9	TP11, TP102, TP104, TP202, TP204, TP302, TP304, TP402, TP404	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 ir	5000	Keystone
2	TP151, TP152	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir	5002	Keystone
1	U1	UCD9244RGC	IC, Digital PWM System Controller	QFN-64	UCD9244RGC	TI
4	U101, U201, U301, U401	UCD7231RTJ	IC, Digital Control Compatible Sync-Buck Gate Driver W/Curren	QFN-20	UCD7231RTJ	TI
1	U151	TLC555CD	IC, Timer, Low-Power CMOS	SO8	TLC555CD	TI
1	U152	UCC37324DR	IC, Dual 4-A High Speed Low-Side Power MOSFET Drivers	SO-8	UCC37324DR	TI
1	U2	TPS76933DBV	IC, Ultralow-Power 100 mA LDO Regulator	SOT23-5	TPS76933DBV	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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