

Filename: PMP5855_1_bom.xls						
Date: 09/23/2010						
PMP5855_1 BOM						
COUNT	RefDes	Value	Description	SIZE	PART NUMBER	MFR
3	C1, C2, C3	330uF	Capacitor, Aluminum, 16V, -40-85C, 20%, through hole	0.315 inch	ECA-1CM331B	Panasonic-ECG
4	C101, C102, C201, C202	100pF	Capacitor, Ceramic, 50V, NPO, 10%	0603	Std	Std
6	C103, C108, C110, C203, C208, C210	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	Std
2	C104, C204	68pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std
2	C105, C205	Not used	Capacitor, Ceramic, open	0603	Std	Std
8	C106, C107, C206, C207, C401, C402, C403, C404	10uF	Capacitor, Ceramic, 25V, X5R, 20%	1206	Std	Std
3	C109, C209, C301	1000pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	Std
2	C111, C211	220uF	Capacitor, Aluminum, 2V, 20% (SX Series), 9mohm	7343	EEF-SX0D221R	Panasonic
20	C112, C113, C114, C115, C116, C212, C213, C214, C215, C216, C310, C315, C317, C319, C416, C417, C424, C426, C427, C428	10uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0805	Std	Std
2	C117, C217	10uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	Std	Std
1	C118	1800pF	Capacitor, Ceramic, 50V, X7R, 15%	0805	Std	Std
5	C119, C120, C219, C220, C502	0.01uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Std
6	C121, C122, C123, C221, C222, C223	Not used	Capacitor, Ceramic, Open	0805	Std	Std
5	C218, C312, C313, C412, C413	1000pF	Capacitor, Ceramic, 50V, X7R, 15%	0805	Std	Std
4	C302, C303, C414, C415	Not used	Capacitor, Ceramic, Open, 0402	0402	Std	Std
3	C304, C307, C503	22uF	Capacitor, Ceramic, 16V, X5R, 20%	1210	Std	Std
2	C305, C306	33uF	Capacitor, TANTCAP, 16V, 0.045 Ohms, 20%	7343(D)	T520V336M016AT	KEMET
3	C308, C309, C510	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std

2	C311, C314	330uF	Capacitor, TANTCAP, 6.3V, 0.010 Ohms, 20%	7343	T530D337M006AT	KEMET
2	C316, C318	1uF	Capacitor, Ceramic, 16V, X5R, 15%	0402	Std	Std
4	C405, C407, C429, C505	0.1uF	Capacitor, Ceramic, 25V, X7R, 15%	0603	Std	Std
2	C406, C408	330uF	Capacitor, SP, 330uF, 2.5V, 15-milliohm, 20%	7343 (D)	EEF-CX0E331R	Panasonic-ECG
1	C409	4.7uF	Capacitor, Ceramic, 10V, X5R, 20%	0603	Std	Std
7	C410, C420, C423, C501, C509, C511, C513	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	Std	Std
1	C411	22pF	Capacitor, Ceramic, 50V, NPO, 15%	0603	Std	Std
4	C418, C419, C421, C422	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 10%	0603	Std	Std
1	C425	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 10%	0805	Std	Std
1	C504	22nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
1	C506	Not used	Capacitor, Ceramic, 50V, X7R, 15%	0805	Std	Std
1	C507	47uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	Std	Std
1	C508	0.01uF	Capacitor, Ceramic, 25V, X7R, 20%	0402	Std	Std
2	C512, C514	Not used	Capacitor, Ceramic, 6.3V, X7R, 20%	0805	Std	Std
2	C609, C611	4.7uF	Capacitor, Ceramic, 25V, X5R, 20%	0805	ECJ-2FB1E475M	Panasonic
5	C610, C612, C615, C619, C621	0.1uF	Capacitor, Ceramic, X7R, 16V, 10%	0603	Std	Std
1	C620	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C622	1000pF	Capacitor, Ceramic, X7R, 16V, 10%	0603	Std	Std
1	C623	0.47uF	Capacitor, Ceramic, X7R, 16V, 10%	0603	Std	Std
6	C701, C705, C706, C707, C710, C712	0.1uF	Capacitor, Ceramic, 0.1-uF, 25-V, X7R, 10%	0603	C1608X7R1E104K	TDK
2	C702, C703	22pF	Capacitor, Ceramic, 22-pF, 50-V, C0G, 10%	0603	C1608C0G1H220K	TDK
1	C704	1000pF	Ceramic	1000pF	5%"	100V
1	C708	1uF	Capacitor, Tantalum, 1uF, 16V, 20%	3216	293D105X0016A2	Vishay
2	C709, C711	10uF	Capacitor, Tantalum, 10uF, 10V, 20%	3216	293D106X0010A2	Vishay
2	D101, D201	MBR0530T	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530T	On Semi
1	D501	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54-V-GS08	Vishay-Liteon
2	D502, D503	GREEN	Diode, LED, Red Clear, 20mcd	0.079 X 0.049	LTST-C170GKT	Lite On
1	D607	ML-LXT0805SRW-T	Diode, LED, Red, 100 mA	0805	SML-LXT0805SRV	Lumex
2	D608, D660	LN1471Y	Diode, LED, Amber, 20-mA, 0.4-mcd	0.114 X 0.049	LN1471YTR	Panasonic
8	D701, D702, D703, D704, D705, D706, D707, D708	GL05T	Diode, TVS diode, Low Capacitance	SOT23	GL05T	General
1	D709	SSF-LXH305GD-TF	Diode, LED, 2.6-V, 25mA	0.250 x0.250 in	SSF-LXH305GD-T	Lumex
1	D710	MBRA130	Diode, Schottky, 1A, 30V	SMA	MBRA130	IR
1	D711	7.5V	Diode, Zener, 7.5V, 3W	SMB	1SMB5922BT3G	On Semi

1	FB601	220 Ohm	Ferrite Bead, 2A, 0.050 m-ohm	0805	BLM21P221SN	Murata
1	J1		Connector, Powerstrip F, 4pin	0.400 x 0.665 in	MPS-04-7.70-01-L	Samtec
3	J101, J201, J303	PEC02SAAN	Header, Male 2-pin, 100mil spacing	0.100 inch x 2	PEC02SAAN	Sullins
11	J102, J202, J304, J305, J306, J403, J404, J405, J407, J409, J502	ED120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED120/2DS	OST
6	J103, J104, J105, J203, J204, J205	PEC04DAAN	Header, 2x4-pin, 100mil spacing	0.20 x 0.40 inch	PEC04DAAN	Sullins
2	J106, J206	PEC02DAAN	Header, 2x2-pin, 100mil spacing	0.20 x 0.20 inch	PEC02DAAN	Sullins
2	J107, J610	PEC07DAAN	Header, Male 2x7 pin, 100mil spacing	0.100 inch x 2X	PEC07DAAN	Sullins
12	J108, J209, J301, J302, J401, J402, J406, J408, J410, J411, J501, J601	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins
1	J207	PEC05DAAN	Header, Male 2x5-pin, 100mil spacing	0.100 inch x 5	PEC05DAAN	Sullins
1	J602	PEC04DAAN	Header, Male 2x4-pin, 100mil spacing	0.20 x 0.40 inch	PEC04DAAN	Sullins
6	J604, J605, J606, J607, J608, J609	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
2	J701, J704	PTC36SAAN	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins
1	J702	86479-3	Connector, Male Right Angle 2x5 pin, 100mil spacing, 4 Wall	0.607 X 0.484 in	86479-3	AMP
1	J703	UX60-MB-5ST	Connector, Recpt, USB-B, Mini, 5-pins, SMT	0.354 X 0.303 in	UX60-MB-5ST	
2	JP101, JP201	PEC02SAAN	Header, Male 2-pin, 100mil spacing	0.100 inch x 2	PEC02SAAN	Sullins
2	L101, L201	1uH	Inductor, SMT, 11.1A, 7.81 milliohm	0.256 x 0.280 in	SPM6530T-1R0M1	TDK
2	L301, L302	4.7uH	Inductor, SMT, 4.7uH, 6.5A, 0.0303 Ohms	0.255 x 0.270 in	IHLP2525EZER4R	Vishay
2	L401, L402	2.2uH	Inductor, SMT, 10A, 0.0136 Ohms	0.255 x 0.270 in	IHLP2525EZER2R	Vishay
1	L501	1.5uH	Inductor, SMT, 5.5A, 40.4milliohm	0.204 x 0.216 in	IHLP2020CZER1R	Vishay
6	Q101, Q201, Q301, Q302, Q401, Q402	CSD86330Q3D	MOSFET, Synchronous Buck NexFET Power Block	QFN-8 POWER	CSD86330Q3D	TI
2	Q501, Q502	CSD16407Q5	MOSFET, NChan, 25V, 31A, 2.5 milliohm	QFN5X6mm	CSD16407Q5	TI(Ciclon)
5	Q701, Q702, Q703, Q704, Q705	BSS84	MOSFET, Pch, -50V, -0.13A, 10 Ohm	SOT23	BSS84	Infineon
1	Q706	MMBT2222A	TRANSISTOR, NPN, HIGH-PERFORMANCE, 500mA	SOT-23	MMBT2222A	Fairchild
4	R101, R103, R201, R203	475	Resistor, Chip, 1/16W, 1%	0402	Std	Std
12	R102, R117, R119, R120, R202, R217, R219, R220, R503, R507, R508, R512	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R104, R204	45.3k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R105, R107, R205, R207	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std

2	R106, R206	6.19k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R108, R208	Not used	Resistor, Chip, open	0603	std	std
3	R109, R209, R305	0	Resistor, Chip, 1/16W, 5%	0402	Std	Std
2	R110, R210	2.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
6	R111, R211, R306, R307, R402, R409	0	Resistor, Chip, 1/16W, 5%	0603	Std	Std
2	R112, R212	3mohm	Resistor, Metal Film, 1/4 watt, ± 1%	1206	WSL12063L000FE	Vishay
6	R113, R213, R308, R309, R412, R413	1	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std
2	R114, R214	78.7k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R115, R116, R215	100k	Resistor, Chip Array, 62.5 mW ± 5%	612	TC164-JR-07100K	Yageo
4	R121, R122, R221, R222	1.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R123, R223	1	Resistor, Chip, 1/16W, 5%	0603	Std	Std
8	R124, R224, R425, R431, R734, R735, R736, R737	0	Resistor, Chip, 1/16W, x%	0402	Std	Std
11	R125, R227, R319, R320, R419, R432, R435, R437, R439, R440, R524	1K	Resistor, Chip, 1/16W, x%	0402	Std	Std
11	R126, R228, R301, R321, R433, R434, R436, R438, R441, R442, R523	20K	Resistor, Chip, 1/16W, x%	0402	Std	Std
7	R216, R401, R407, R417, R421, R504, R513	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R302, R303, R317	10.0k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
2	R310, R311	4.64k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R312	5.11	Resistor, Chip, 1/16W, 5%	0402	Std	Std
1	R313	20.0k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
2	R314, R318	2.0k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R315	12.0k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R316	4.0k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R403	102k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R404, R406	75.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R405	28.7k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R408, R411	4.64k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R410	3.3	Resistor, Chip, 1/16W, 5%	0603	Std	Std
1	R416	6.81k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R418, R422	7.87k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R420	2.49k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

4	R424, R427, R428, R522	0	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R501	68.1	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R502	5.62k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R506	Not used	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J	Vishay
2	R509, R510	330	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R511	8.06k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R514, R515	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R516, R521	0.005	Resistor, Chip, 5mohm, 2W, 1%	2512	Std	Std
4	R517, R518, R519, R520	0.1	Resistor, Chip, 100mohm, 2W, 1%	2512	Std	Std
1	R605	200	Resistor, Chip, 1/16W, 5%	0603	Std	Std
2	R606, R610	332	Resistor, Chip, 1/10W, 1%	0805	Std	Std
2	R608, R611	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
8	R616, R617, R622, R623, R624, R625, R626, R627	33	Resistor, Chip, 1/16W, 5%	0603	Std	Std
1	R628	20K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R629	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
6	R630, R631, R632, R634, R635, R638	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R633, R636, R637	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R639, R641	84.5K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R640, R642	36.5K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R701, R702, R726	1.5K	Resistor, Chip, 1.5k-Ohms, 1/16-W, 5%	0603	Std	Std
1	R703	1.00M	Resistor, Chip, 1.00M-Ohms, 1/16-W, 1%	0603	Std	Std
15	R704, R705, R706, R707, R708, R709, R710, R711, R722, R723, R724, R725, R727, R728, R730	33	Resistor, Chip, 33-Ohms, 1/16-W, 5%	0603	Std	Std
5	R712, R714, R715, R716, R732	100K	Resistor, Chip, 100K, 1/16-W, 5%	0603	Std	Std
2	R713, R731	15K	Resistor, Chip, 15K, 1/16-W, 5%	0603	Std	Std
3	R717, R718, R720	2.2K	Resistor, Chip, 2.2k-Ohms, 1/16-W, 5%	0603	Std	Std
2	R719, R721	1K	Resistor, Chip, 1k-Ohms, 1/16-W, 5%	0603	Std	Std
1	R729	200	Resistor, Chip, 200, 1/16-W, 5%	0603	Std	Std
1	R733	0	Resistor, Chip, 1/16W, x%	0805	Std	Std
2	RT101, RT201	150K	NTC Thermistor, 0603, 5%,	0603	ERTJ1VV154J	Panasonic
1	S601	KT11P2JM34LFS	Switch, SPST, PB Momentary, Sealed Washable	0.245 X 0.251	KT11P2JM34LFS	C & K
2	SW501, SW502	G12AP	Switch, ON-ON Mini Toggle	0.28 x 0.18 inc	G12AP	NKK
2	U101, U201	TPS59610RHB	IC, Single Phase, D-Cap+ Synchronuous Buck Controller	QFN-32	TPS59610RHB	TI
1	U301	TPS51120RHB	IC, Dual Synchronous PWM Controller, QFN	QFN32	TPS51120RHB	TI

1	U401	TPS59124RGE	IC, Dual Synchronous Step-Down Controller For Low-Voltage	QFN-24	TPS59124RGE	TI
2	U402, U403	TPS74801DRC	IC, 1.5A LDO Regulator with Soft-Start	SON-10	TPS74801DRC	TI
1	U404	TPS51100DGQ	IC, High Performance DDRI&II 3A LDO & Buffered Reference	DGQ10	TPS51100DGQ	TI
1	U501	TPS53312RGT	IC, 4.5-18V Input, 3A Step-down Regulator with Integrated Sw	QFN-16	TPS53311RGT	TI
1	U502	TLC555CD	IC, Timer, Low-Power CMOS	SO8	TLC555CD	TI
1	U503	UCC37324DR	IC, Dual 4-A High Speed Low-Side Power MOSFET Drivers	SO-8	UCC37324DR	TI
1	U504A503	SN74HC08D	IC, Quadruple 2-Input Positive-And gates	SO14	SN74HC08D	TI
1	U601	UCD9012xRGC	IC, Digital PWM System Controller	PFC-64	UCD9012xRGC	TI
1	U602	TPS715A33DRV	IC, High Input Voltage, Micropower, 3.2 μ A @ 80 mA LDO, xx	QFN-6	TPS715AxxDRV	TI
1	U603	SN74LVC2G04DBV	IC, Dual Schmitt-Trigger Inverter	SOT23-6	SN74LVC2G04DBV	TI
1	U701	24LC64I-SN	IC, Serial EEPROM 64K, 2.5-5.5V 400 kHz Max.	SO8	24LC64I-SN	Microchip
1	U702	TUSB3210PM	IC, USB, General Purpose, Device Controller	0.480 x 0.480"	TUSB3210PM	TI
1	U703	TPS763xxDBV	IC, Micro-Power 150 mA LDO Regulator	SOT23-5	TPS763xxDBV	TI
1	Y701	12MHZ	Crystal, 12MHz, 20pF, +/- 50PPM@25C	0.185 x 0.532 in	CY12BPSMD	Crystek
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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