

Filename: PMP5096_REVA_bom.xls

Date: November 3, 2009

PMP5096_REVA BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR	AREA
4	C1, C3, C7, C9	0.01uF	Capacitor, Ceramic, 25V, X7R, 10%	0603	std	std	5650
2	C10, C11	680pF	Capacitor, Ceramic, 25V, NPO, 5%	0603	std	TDK	5650
4	C101, C201, C501, C601	100nF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	Std	5650
16	C102, C103, C104, C105, C202, C203, C204, C205, C502, C503, C504, C505, C602, C603, C604, C605	22uF	Capacitor, Ceramic, 22uF, 16V, X7R	1210	C3225X7R1C226V	TDK	83,600
8	C106, C107, C206, C207, C506, C507, C606, C607	270uF	Capacitor, OS CON, 16V, 10milliohm, 105C, 20%, 4.68A	0.250 inch	16SEPC270M	Sanyo	67600
4	C608	100pF	Capacitor, Ceramic, 50V	0603	std	std	5650
4	C109, C209, C509, C609	470nF	Capacitor, Ceramic, 16V, X7R	0603	std	std	5650
8	C110, C123, C210, C223, C510, C523, C610, C623	2.2nF	Capacitor, Ceramic, 50V, X7R, 15%	0603	std	std	5650
4	C111, C211, C511, C611	1uF	Capacitor, Ceramic, 16V, X7R	0603	std	std	5650
4	C112, C212, C512, C612	4.7uF	Capacitor, Ceramic, 16V, X7R, +/-20%	1206	std	std	15390
4	C113, C213, C513, C613	1.0uF	Capacitor, Ceramic, 1uF, 6.3V, X5R	0603	Std	Std	5650
4	C114, C214, C514, C614	100nF	Capacitor, Ceramic, 0.1uF, 16V, X5R	0603	Std	Std	5650
1	C14	4.7uF	Capacitor, Ceramic, 25V, X5R, 20%	0805	ECJ-2FB1E475M	Panasonic	10560
5	C2, C5, C16, C17, C19	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	ECJ-1VB1H103K	Panasonic	5650
2	C4, C18	0.1uF	Capacitor, Ceramic, 25V, X7R, 10%	0603	ECJ-1VB1E104K	Panasonic	5650
4	C51, C52, C53, C54	820uF	Capacitor, OS CON, 2.5V, 5milliohm, 105C, 20%, 7.2A	0.250 inch	2SEPC820MY	Sanyo	67600

	C61, C62, C63, C64, C65, C66, C67, C68, C69,						
12	C70, C71, C72	100uF	Capacitor, Ceramic, 100uF, 6.3V, X5R	1210	C3225X5R0J107M TDK		83,600
1	C76	22uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0805	C2012X5R0J226M TDK		10560
1	C77	1.0uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std	5650
1	C8	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	std	std	5650
1	C903	4.7uF	Capacitor, Ceramic, 16V, X7R, 20%	0805	std	std	10560
1	C904	0.01uF	Capacitor, Ceramic, 25V, X5R, 20%	0603	Std	Std	5650
1	C905	0.1uF	0.1uF Capacitor, Ceramic, 10V, X5R	0603	Std	Std	5650
1	C906	2700pF	Capacitor, Ceramic, 25V, X5R, 10%	0603	Std	Std	5650
1	C907	5.6pF	Capacitor, Ceramic, 25V, NPO, 5%	0603	Std	Std	5650
1	C908	47uF	Capacitor, Ceramic, 10V, X5R	1210	Std	Std	83,600
1	D901	MBR0530Tx	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530Tx	On Semi	19380
2	J101, J102	L35	Lug, Copper, 25A, #8AWG - #14AWG	0.375 x 0.812 in	L35	Thomas & Betts	484500
1	J2	.AWHW10G-0202-T-1	Connector, Male Straight 2x5 pin, 100mil spacing, 4 Wall	0.338 x 0.788 in	AWHW10G-0202-1	Assmann Electronics	301.024
2	J51, J52	LUG-#2	Lug, Solderless, #2 - #8 AWG, 1/4	Copper"		6/9/2006 10:28	CONN_LUG-#2
1	J902	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25"	ED1514	OST	ED1514-ND
	L102, L202, L502,						
4	L602	0.57uHy	Inductor, SMT, yyA, zzmilliohm	0.512 X 0.512 in	HC1-R57	Coiltronics	57,517
1	L901	47uH	Inductor, SMT, 0.8A, 238milliohm	0.264 sq inch	CDRH6D28NP-47C	Sumida	87680
4	Q101, Q201, Q501, Q601	CSD16322Q5	MOSFET, N-Chan, 25V, [TBD] A, 4.5 milli-ohm	QFN-8 POWER	CSD16322Q5	TI	86800
	Q102, Q103, Q202, Q203, Q502, Q503, Q602, Q603	CSD16325Q5	MOSFET, N-Chan, 25V, [TBD] A, 4.5 milli-ohm	QFN-8 POWER	CSD16325Q5	TI	86800
4	R102, R202, R502, R602	20k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
	R104, R114, R204, R214, R504, R514, R604, R614	2.49k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
4	R105, R205, R505, R605	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
4	R106, R206, R506, R606	7.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
8	R107, R116, R207, R216, R507, R516, R607, R616	0.68	Resistor, Chip, 1/2W, 5%	2010	Std	Std	30800

	R111, R112, R113, R211, R212, R213, R511, R512, R513,						
12	R611, R612, R613	0	Resistor, Chip, 1/16W, 5%	0603	Std	Std	5,650
2	R19, R26	499	Resistor, Chip, 1/16W, 1%	0603	std	Panasonic	9100
2	R2, R5	53.6k	Resistor, Chip, 1/16W, 1%	0603	std	Panasonic	9100
2	R20, R22	100k	Resistor, Chip, 1/16W, 1%	0603	std	Panasonic	9100
4	R23, R32, R33, R34	1.0M	Resistor, Chip, 1/16W, 1%	0603	ERJ-3EKF1004V	Panasonic	9100
	R24, R29, R30, R31, R35, R101, R115, R201, R215, R501, R515, R601,						
13	R615	10k	Resistor, Chip, 1/16W, 1%	0603	ERJ-3EKF2002V	Panasonic	9100
3	R25, R27, R28	100.0K	Resistor, Chip, 1/16W, 1%	0603	ERJ-3EKF1003V	Panasonic	9100
4	R3, R8, R9, R10	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R4	15.0K	Resistor, Chip, 1/16W, 1%	0603	ERJ-3EKF1502V	Panasonic	9100
	R40, R41, R42,						
4	R43	51	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay	9100
1	R44	10	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay	9100
1	R45	0.2	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay	9100
2	R51, R52	1	Resistor, Chip, 1/16W, 5%	0402	Std	Std	2800
1	R7	2.74K	Resistor, Chip, 1/16W, 1%	0603	ERJ-3EKF2741V	Panasonic	9100
1	R901	332k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R902	56.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R903	165k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R904	76.8k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R905	51	Resistor, Chip, 1/16W, 5%	0603	Std	Std	9100
1	R906	66.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R907	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R99	0	Resistor, Chip, 1/16W, 5%	0402	Std	Std	2800
1	S1	KSC221J	Switch, Momentary, Sealed Tact, 32V, 50mA	0.394 x 0.260	ii KSC221J	ITT	21600
	TP1, TP2, TP3,						
4	TP4	5016	Test Point, SM, 0.150 x 0.090	0.185 x 0.135	ii 5016	Keystone	
	TP103, TP203,						
4	TP503, TP603	5015	Test Point, SMT	0.105 x 0.040	ii 5015	Keystone	
	TP51, TP101, TP201, TP501, TP601, TP901,						
7	TP902	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100	ii 5000	Keystone	10

	TP52, TP102, TP202, TP502,						
6	TP602, TP903	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 in	5001	Keystone	10
1	U1	UCD9224RGZ	IC, Digital PWM System Controller	QFN-48	UCD9224RGZ	TI	116964
	U101, U201, U501,						
4	U601	UCD7231RTJ	IC, Digital Control Compatible Sync-Buck Gate Driver W/Curre	QFN-20	UCD7231RTJ	TI	48400
1	U2	TPS76933DBV	IC, Ultralow-Power 100 mA LDO Regulator	SOT23-5	TPS76933DBV	TI	23200
1	U901	TPS54040DGQ	IC, DC-DC Converter, 42V, 0.5A	MSOP-10	TPS54040DGQ	TI	40500

- 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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