Filename: BILLOFMATERIALS_bom.xls
Date: 10/28/2011

PMP5726RevF_BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
1	C1	10n	Capacitor, X7R Ceramic, 500V	2220	STD	STD
1	C18	100n	Capacitor, X7R Ceramic, 200V, 20%	1206	STD	std
1	C41	4u7	Capacitor, X7R Ceramic, 50V	1210	STD	STD
1	C42	100n	Capacitor, X7R Ceramic, 50V	1210	STD	STD
1	C43	DNP	Capacitor, X7R Ceramic, 50V	1210	STD	STD
1	C44	1n	Capacitor, C0G Ceramic, 200V	1206	STD	std
1	C45	10n	Capacitor, X7R Ceramic, 16-V	0603	STD	std
1	C51	100n	Capacitor, X7 Ceramic, 16V	0603	STD	Std
1	C52	100n	Capacitor, X7R Ceramic, 16V	0603	STD	std
1	C53	47n	Capacitor, X7R Ceramic, 16V	0603	STD	Std
1	C54	33u	Capacitor, Aluminum Electrolytic, 16V	0.248 inch	STD	Rubycon
1	C55	100n	Capacitor, X7 Ceramic, 16V	0603	STD	Std
1	C56	open	Capacitor, X7R Ceramic, 16V	0603	STD	Std
1	C57	100p	Capacitor, X7 Ceramic, 16V	0603	STD	Std
1	C60	1n	Capacitor, X7R Ceramic, 16V	0603	STD	std
1	C66	10n	Capacitor, Ceramic, 16-V	0805	STD	std
1	C68	DNP	Capacitor, X7R Ceramic, 16V	0805	STD	std
1	C73	1n	Capacitor, X7R Ceramic, 50V	0603	STD	std
1	C74	2u2	Capacitor, X7R Ceramic, 16V	0805	STD	std
1	C76	82p	Capacitor, C0G Ceramic, 16V	0603	STD	std
1	C78	10n	Capacitor, X7R Ceramic, 16V	0603	STD	std
1	C81	820p	Capacitor, C0G Ceramic, 16V	0603	STD	std
1	C83	100n	Capacitor, Leaded, 63V, [5%]	0.177 x 0.287 inch	MKS 2	Wima
1	C84	DNP	Capacitor, Leaded, 63V, [5%]	0.177 x 0.287 inch	MKS 2	WIMA
1	C85	22n	Capacitor, X7R Ceramic, 200V, 20%	1206	STD	std
1	C86	DNP	Capacitor, X7R Ceramic, 200V	1206	STD	std
4	C14-17	1u	Capacitor, X7R Ceramic, 100V	1206	STD	STD
8	C19-22 C46-49	22n	Capacitor, X7R Ceramic, 25V	0603	STD	std
2	C2-3	100U	Capacitor, Aluminum, 100V, 20%,	0.500 x 0.800	STD	Rubycon
2	C23-24	47u	Capacitor, X7R Ceramic, 16V	1210	STD	STD
16	C25-40	10u	Capacitor, Ceramic, 50V, 20%	2220	STD	std
10	C4-13	4u7	Capacitor, X7R Ceramic, 100V	1812	STD	Std
5	C50 C58 C65 C70 C72	1u	Capacitor, X7R Ceramic, 16V	0805	STD	std
5	C59 C61 C67 C71 C82	100n	Capacitor, X7R Ceramic, 16V	0603	STD	std
4	C64 C62 C75 C79	100n	Capacitor, X7R Ceramic, 16-V	0805	STD	std
2	C69 C80	47n	Capacitor, X7R Ceramic, 16V	0603	STD	std
2	C77 C63	100n	Capacitor, X7R Ceramic, 16V	0603	STD	std
2	C87-88	10n	Capacitor, X7R Ceramic, 200V, 20%	1206	STD	std
1	D13	LED_RED	Diode, LED, Red, 2.1-V, 20-mA, 6-mcd	0603	LTST-C190CKT	Lite On
1	D29	BCM61B	Trans, Dual NChan, 45V, 100 mA	SOT-143B	BCM61B	Philips
1	D31	ES3C	Diode, Ultra Fast Rectifier, 3A, 150V	SMC	ES3C	On Semi
2	D1-2	DNP	Diode, Super Fast Rectifier, 200V, 1A	0.220 x 0.115 inch		Diodes
4	D14 D18 D32-33	STPS1150A	Diode, Schottky, 1A, 150V	SMA	STPS1150A	ST
4	D17 D19 D25-26	HRW0202B	Diode, Dual Schottky, 200-mA, 20-V	SOT23	HRW0202B	Hitachi
2	D22 D30	TS4148RY	Diode, Hi-Speed, 150-mA, 100V, 500mW	0805	TS4148RY	Taiwan Semiconductor
16	D3-6 D9-12 D15-16 D20-21 D23-24 D27-28	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon
2	D7-8	BAT54S	Diode, Dual Schottky, 200-mA, 30-V	SOT23	BAT54S	Zetex
1	J8	STD	Connector, Bus Bar 4-pin, 15.2 mm spacing,	1x52.6 mm	STD	STD
2	J1-2	ED120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED120/2DS	OST
5	J3-7	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	L1	6.8u	Inductor, SMT Power, 30A, 2milliohm	1.100 x 1.100 inch	SER2915H-682KL	Coilcraft
1	Q17	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002	Diodes
4	Q1-2 Q11-12	3904	Bipolar, NPN, 40-V, 200-mA	SOT23	MMBT3904LT1G	
4	Q3-4 Q13-14	BSC057N08NS3 G	MOSFET, NChan, 80V, 57 millohm	PWRPAK S0-8	BSC057N08NS3 G	Infineon
4	Q5-6 Q15-16	3906	Bipolar, PNP, -40-V, -200-mA	SOT23	MMBT3906LT1G	
4	Q9-10 Q7-8	BSC320N20NS3	MOSFET, NChan, 200V, 36A, 32 millohm	PWRPAK S0-8	BSC320N20NS3	Infineon
1	R5	DNP	Resistor, Chip 1/4 watt, ±1%	1206	STD	STD
1	R6	10m	Resistor, Chip, 3W, 1%	2512	STD	STD
1	R15	8.2	Resistor, Current Sense, ± 1%	2010	STD	Vishay Dale
1	R20	10	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R21	0R	Resistor, Chip 1/4 watt, ±1%	1206	STD	STD
1	R23	16k2	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R24	5k6	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R25	18k	Resistor, Metal Film, 1/4W, 1%	1206	STD	Std
1	R26	1k65	Resistor, Metal Film, 1/4W, 1%	1206	STD	Std
1	R30	2.00k	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R33	49R9	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R34	5k11	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R40	23k2	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R43	4k7	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R44	1k	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R45	33k	Resistor, Chip, 1/16W, 1%	0603	STD	Std
1	R48	1k	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R49	33k	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R54	open	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R55	4k7	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R56	19k1	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R57	49.9	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R59	390	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R61	1k96	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R69	26k7	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R70	13k	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R71	18k	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R73	5k6	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R74	56k	Potentiometer, SMT Pot, 0.25W, ±10%	0.209 x 0.154	3224W-x-xxxE	Bourns
1	R76	5k6	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R77	5k6	Potentiometer, SMT Pot, 0.25W, ±10%	0.209 x 0.154	3224W-x-xxxE	Bourns

1	R78	0R	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R79	8k2	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R80	DNP	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R87	15k	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
1	R98	221	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
5	R10-14	0.27	Resistor, Chip, 1W, 1%	2512	STD	STD
6	R1-2 R89-90 R96-97	4k7	Resistor, Chip, 1-W, 5%	2512	STD	std
5	R22 R36 R46 R51 R58	10k	Resistor, Chip, 1/16W, 1%	0603	STD	Std
2	R32 R29	100k	Resistor, Chip, 1/16W, 1%	0603	STD	Std
7	R3-4 R18-19 R31 R68 R72	100	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
4	R35 R41 R53 R86	10	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
4	R37-38 R28 R27	0	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
3	R42 R63 R39	10k	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
2	R50 R66	open	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
3	R52 R84-85	0	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
2	R60 R88	20k	Potentiometer, SMT Pot, 0.25W, ±10%	0.209 x 0.154	3224W-x-xxxE	Bourns
2	R62 R47	10k	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
3	R64-65 R67	13k	Resistor, Chip, 1/16W, 1%	0603	STD	Std
4	R75 R81-83	DNP	Resistor, Chip, 1/16-W, 1%	0603	STD	Std
4	R7-8 R16-17	1	Resistor, Chip, 1/10W, 1%	0805	ERJ6RQJ1R0	Panasonic
2	R9 R91	68	Resistor, Chip, 1W, 1%	1210	STD	STD
2	S1-2	GT22MCXE	Switch, Ultraminiature Toggle, DPDT	0.177 x 0.276 inch	GT22MCXE	C & K
2	SCR1-2		Through Hole for Screw #4 plated		STD	STD
1	T3	55694	Power Transformer, 304W SMPS	34 X41.00 mm	55694	Payton
1	T4	100 to 1	Transformer, 3 Pri, 2Sec	0.284 x 0.330 inch	PA1005.100NL	Pulse
4	T1-2 T5-6	PA2002NL	Transformer, Gate Driver	0.340 X 0.355 inch	PA2002NL	Pulse
1	TP5	131-4244-00	Adaptor, 3.5-mm probe clip (or 131-5031-00)	0.200 inch	131-4244-00	Tektronix
1	TP8	Std	Test Point, O.032 Hole		Std	Std
1	TP12	STD	Test Point, O.050 Hole	0.100 x 0.100 inch	Std	STD
1	TP23	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	Std	Keystone
20	TP1 TP3 TP6-7 TP9 TP11 TP13-14 TP16-22 TP24-28	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Std	Keystone
4	TP2 TP4 TP10 TP15	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	Std	Keystone
1	U2	LM2903	IC, Dual comparator	SO-8	LM2903	Texas Instruments
1	U3	SN74LVC1G17DCK	IC, Dual Schmitt-Trigger Buffer	SOP-5	SN74LVC1G17DCK	Texas Instruments
1	U6	TLV272CD	IC, 550 uA 3MHz R-R Output Op Amp	SO-8	TLV272CD	Texas Instruments
1	U7	INA194AIDBV	IC, Current Shunt Monitor, -16V to 80V Common-Mode Range	SOT23-5	INA194AIDBV	Texas Instruments
1	U9	UCC28950PW	IC, Advanced Phase-Shifted PWM Controller	TSSOP-24	UCC28950PW	Texas Instruments
1	U10	TLV271IDBV	IC, 500 uA single Chan, R-R Output Op-Amp	SOT23-5	TLV271IDBV	Texas Instruments
2	U1 U4	UCC27200A	IC, 120 V Boot, 2.5A Peak, High-Freq. High-Side Low-Side Driver	SO8	UCC27200DA	Texas Instruments
2	U5 U8	UCC37324D	IC, Dual 4-A High Speed Low-Side Power MOSFET Drivers	SO-8	UCC37324D	Texas Instruments

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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