

Filename: PMP7821\_BOM\_RevB

Date: 3/7/13

Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity
1	AA1	Printed Circuit Board	O	TBD	Used in BOM Report	1
2	C1, C2, C3	CAP ALUM 47UF 63V 20% SMD	Y	Nichicon	PCV1J470MCL1GS	3
3	C4, C5, C10	CAP, CERM, 0.01uF, 500V, +/-10%, X7R, 1206	Y	Vishay-Vitramon	VJ1206Y103KXEAT5Z	3
4	C6, C7, C8	CAP, CERM, 3.3uF, 50V, +/-20%, X7R, 1210	Y	TDK	C3225X7R1H335M	3
5	C9, C12	CAP, CERM, 0.1uF, 50V, +/-5%, X7R, 1206	Y	AVX	12065C104JAT2A	2
6	C11	CAP ALUM 10UF 63V 20% SMD	Y	Nichicon	PCV1J100MCL1GS	1
7	C13	CAP, CERM, 1uF, 50V, +/-10%, X7R, 1206	Y	MuRata	GRM31MR71H105KA88L	1
8	C14	CAP, CERM, 3.3uF, 6.3V, +/-20%, X5R, 0603	Y	Kemet	C0603C335M9PACTU	1
9	C15	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0805	Y	TDK	C2012X7R1C105K	1
10	C16	CAP, CERM, 680pF, 50V, +/-5%, COG/NPO, 0603	Y	TDK	C1608C0G1H681J	1
11	C17, C24	CAP, CERM, 0.015uF, 100V, +/-10%, X7R, 0603	Y	Kemet	C0603C153K1RACTU	2
12	C18, C19, C20	CAP ALUM 470UF 63V 20% SMD	Y	Nichicon	PCV1C471MCL1GS	3
13	C21	CAP, CERM, 2200pF, 100V, +/-10%, X7R, 0603	Y	AVX	06031C222KAT2A	1

14	C22	CAP, CERM, 100pF, 50V, +/-5%, COG/NP0, 0603	Y	MuRata	GRM1885C1H101JA01D	1
15	C23	CAP, CERM, 330pF, 50V, +/-5%, COG/NP0, 0603	Y	MuRata	GRM1885C1H331JA01D	1
16	Comp, Hgate, Pin1, Pin 3, Pin 4, Pins 1, Pins 2, 5, Pins 3, 6, Pins 4, PSwitch	Terminal, Turret, TH, Double	Y	Keystone	1502-2	10
17	D1	TVS 8W 36V 5% DO-218AB	Y	Vishay	E3/2D	1
18	D2	DIODE SCHOTTKY 60V 30A TO-220AC	Y	ST Microelectronics	STPS30SM60D	1
19	FID1, FID2, FID3, FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	6
20	J1	6 Pin, Header, PCB Mount Right Angle, TE Connectivity	Y	TE Connectivity	966140-5	1
21	L1	Inductor, Shielded Drum Core, Ferrite, 3.9uH, 7.7A, 0.0117 ohm, SMD	Y	Coilcraft	MSS1278T-392NLB	1
22	L2	SMT Common Mode Choke	Y	Pulse Engineering	PA2755NL	1
23	L3	Inductor, Shielded E Core, Ferrite, 4.7uH, 30A, 0.0015 ohm, SMD	Y	Coilcraft	SER2915L-472KL	1
24	Q1	TRANS NPN 100V SOT23F-3		Zetex	ZXTN19100CFFTA	1
25	Q2, Q4	MOSFET N-CH 60V 30A TO252-3	Y	Infineon	IPD220N06L3 G	2
26	Q3	TRANS PNP 60V SOT23F-3	Y	Zetex	ZXTP19060CFFTA	1
27	R2, R3, R8	RES, 1.0 ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW12061R00JNEA	3
28	R4	RES, 10.0 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060310R0FKEA	1

29	R5	RES, 1.00 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031R0 0FKEA	1
30	R6	RES, 3.32 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06033R3 2FKEA	1
31	R7	RES, 162k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603162K FKEA	1
32	R9	RES, 24.9k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060324K9 FKEA	1
33	R10, R11	RES, 100 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603100 RFKEA	2
34	R12	RES, 76.8k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060376K8 FKEA	1
35	R13	RES, 0.003 ohm, 1%, 0.5W, 2010	Y	Vishay-Dale	WSL20103L000 FEA	1
36	R14	RES, 47.5k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060347K5 FKEA	1
37	R15	RES, 48.7 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060348R 7FKEA	1
38	R16	RES, 4.75k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06034K75 FKEA	1
39	U1	Wide Input Range Non-Synchronous Buck Controller, 16-pin TSSOP-EP	N	National Semiconductor	LM5088MH-2	1
40	R1	RES, 1.0 ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW12061R0 0JNEA	0

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