

Filename:	PMP5417_RevD_BOM.xlsx					
Generated:	2/18/2014 2:20:56 PM					
Synchronous Boost Converter						
Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
C11	1	10pF	CAP, CERM, 10pF, 50V, +/-5%, C0G/NP0, 0603	603	C1608C0G1H100D	TDK
C12	1	220pF	CAP, CERM, 220pF, 50V, +/-5%, C0G/NP0, 0603	603	C1608C0G1H221J	TDK
C13	1	1200pF	CAP, CERM, 1200pF, 25V, +/-10%, X7R, 0603	603	GRM188R71E122KA01D	MuRata
C1, C7	2	4700pF	CAP, CERM, 4700pF, 25V, +/-10%, X7R, 0603	603	GRM188R71E472KA01D	MuRata
C8, C9, C10	3	0.47uF	CAP, CERM, 0.47uF, 16V, +/-10%, X7R, 0603	603	GRM188R71C474KA88D	MuRata
C6	1	10uF	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	805	GRM21BR61A106KE19L	MuRata
C3, C5	2	47uF	CAP, CERM, 47uF, 10V, +/-10%, X5R, 1210	1210	GRM32ER61A476KE20L	MuRata
C2, C4	2	330uF	CAP, TA, 330uF, 6.3V, +/-20%, 0.025 ohm, SMD	7.3x2.8x4.3mm	6TPE330ML	Sanyo
D1	0	DNP	Diode, Schottky, 35V, 8A, PowerDI5	PowerDI5	PDS835L-13	Diodes Inc.
J1, J2	2		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	ED555/2DS	On-Shore Technology
L1	1	1uH	Inductor, Shielded, Composite, 1uH, 21.5A, 0.01 ohm, SMD	IND_6.4x3.1x6.6	XAL6030-102MEB	Coilcraft
Q1	1		MOSFET, P-CH, -20V, -60A, SON 3.3x3.3mm	SON 3.3x3.3mm	CSD25401Q3	Texas Instruments
Q2	1		MOSFET, N-CH, 25V, 60A, SON 3.3x3.3mm	SON 3.3x3.3mm	CSD16340Q3	Texas Instruments
R5, R6, R7, R8, R12	5	0	RES, 0 ohm, 5%, 0.1W, 0603	603	ERJ-3GEY0R00V	Panasonic
R1, R3	2	4.7	RES, 4.7 ohm, 5%, 0.1W, 0603	603	CRCW06034R70JNEA	Vishay-Dale
R2	1	1.00k	RES, 1.00k ohm, 1%, 0.1W, 0603	603	CRCW06031K00FKEA	Vishay-Dale
R9	1	10.0k	RES, 10.0k ohm, 1%, 0.1W, 0603	603	CRCW060310K0FKEA	Vishay-Dale
R13	1	19.1k	RES, 19.1k ohm, 1%, 0.1W, 0603	603	CRCW060319K1FKEA	Vishay-Dale
R10	1	30.1k	RES, 30.1k ohm, 1%, 0.1W, 0603	603	CRCW060330K1FKEA	Vishay-Dale
R4	1	63.4k	RES, 63.4k ohm, 1%, 0.1W, 0603	603	CRCW060363K4FKEA	Vishay-Dale
R11	1	100k	RES, 100k ohm, 1%, 0.1W, 0603	603	CRCW0603100KFKEA	Vishay-Dale
TP1, TP2, TP3, TP7, TP8	5		Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone
TP4, TP5, TP6	3		Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone
U1	1		MULTI-TOPLOGY HIGH FREQUENCY PWM CONTROLLER, PW0016A	PW0016A	TPS43000PW	Texas Instruments

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