

Filename: PMP8637RevA - LM25118 - 5V7 at 1A2 - BoM.xls

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**3.5 .. 35V -> 5.7V @ 1.2A**

Quantity	Designator	Value	Description	Package	PartNumber	Manufacturer
2	C1, C2	3.3uF	CAP, CERM, 3.3uF, 50V, +/-10%, X7R, 1210	1210	GRM32DR71H335KA88L	MuRata
1	C3	150uF	CAP, AL, 150uF, 50V, +/-20%, 0.18 ohm, SMD	SMT Radial G	EEE-FK1H151P	Panasonic
3	C6, C13, C16	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H104KA93D	MuRata
1	C7	470uF	CAP, AL, 470uF, 10V, +/-20%, 0.16 ohm, SMD	SMT Radial F	EEE-FK1A471P	Panasonic
1	C10	22uF	CAP, CERM, 22uF, 10V, +/-10%, X7R, 1206	1206	GRM31CR71A226KE15L	MuRata
1	C14	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603	GRM1885C1H101JA01D	MuRata
1	C15	2200pF	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H222KA01D	MuRata
1	C17	0.22uF	CAP, CERM, 0.22uF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C224KA01D	MuRata
1	C18	150pF	CAP, CERM, 150pF, 50V, +/-5%, C0G/NP0, 0603	0603	GRM1885C1H151JA01D	MuRata
2	C20, C21	1uF	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0805	0805	GRM216R61E105KA12D	MuRata
1	C22	0.022uF	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H223KA01D	MuRata
2	D2, D3	60V	Diode, Schottky, 60V, 2A, SMB	SMB	MBRS260	ON Semiconductor
1	D101	70V	Diode, Schottky, 70V, 0.07A, SOT-323	SOT-323	BAS70W-05-7-F	Diodes Inc.
4	J1, J2, J3, J4	15A	Terminal screw, vertical, snap-in	7693	7693	Keystone
1	L1	15uH	Inductor, Shielded, Composite, 15uH, 3.7A, 0.08 ohm	XAL5050	XAL5050-153MEB	Coilcraft
2	Q1, Q2	60V	MOSFET, N-CH, 60V, 6A, SOIC-8	SOIC-8	SQ4850EY	Vishay-Siliconix
1	R1	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale
1	R2	49.9k	RES, 49.9k ohm, 1%, 0.1W, 0603	0603	CRCW060349K9FKEA	Vishay-Dale
1	R3	100k	RES, 100k ohm, 1%, 0.1W, 0603	0603	CRCW0603100KFKEA	Vishay-Dale
1	R5	1.00k	RES, 1.00k ohm, 1%, 0.1W, 0603	0603	CRCW06031K00FKEA	Vishay-Dale
1	R6	0.056	RES, 0.056 ohm, 1%, 1W, 2010	2010	Std	Std
1	R8	16.5k	RES, 16.5k ohm, 1%, 0.1W, 0603	0603	CRCW060316K5FKEA	Vishay-Dale
1	R9	49.9	RES, 49.9 ohm, 1%, 0.1W, 0603	0603	CRCW060349R9FKEA	Vishay-Dale
1	R10	22.1k	RES, 22.1k ohm, 1%, 0.1W, 0603	0603	CRCW060322K1FKEA	Vishay-Dale
1	R11	24.9k	RES, 24.9k ohm, 1%, 0.1W, 0603	0603	CRCW060324K9FKEA	Vishay-Dale
1	R12	11.8k	RES, 11.8k ohm, 1%, 0.1W, 0603	0603	CRCW060311K8FKEA	Vishay-Dale
1	R14	4.53k	RES, 4.53k ohm, 1%, 0.1W, 0603	0603	CRCW06034K53FKEA	Vishay-Dale
2	TP8, TP9	White	Test Point, TH, Multipurpose, White	Keystone5012	5012	Keystone
1	U1	LM25118-Q1	IC, Wide Voltage Range Buck-Boost Controller	HTSSOP	LM25118-Q1	Texas Instruments

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