

Filename: BOM-PMP7872_REVA.xls

Variant: None

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LM25117Q Synchronous Buck

Designator	Description	Manufacturer	PartNumber	Quantity
IPCB1	Printed Circuit Board	Any	PMP7872	1
C1, C2, C3, C4	CAP, CERM, 4.7uF, 50V, +/-10%, X7R, 1206	MuRata	GRM31CR71H475KA12L	4
C5	CAP, AL, 220uF, 50V, +/-20%, 0.18 ohm, SMD	Panasonic	EEE-FK1H221P	1
C6	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	MuRata	GRM21BR71H105KA12L	1
C7, C8, C14	CAP, CERM, 0.47uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C474KA88D	3
C9, C10	CAP, CERM, 47uF, 10V, +/-10%, X7R, 1210	MuRata	GRM32ER71A476KE15L	2
C11	CAP, AL, 220uF, 10V, +/-20%, 0.021 ohm, SMD	Nippon Chemi-Con	APXE100ARA221MH70G	1
C12	CAP, CERM, 470pF, 50V, +/-5%, C0G/NP0, 0805	MuRata	GRM2165C1H471JA01D	1
C13	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C104KA01D	1
C15, C18	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1H101JA01D	2
C16	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E103KA01D	1
C17, C19	CAP, CERM, 1000pF, 25V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1E102JA01D	2
D1	Diode, Schottky, 60V, 1A, SOD-123F	NXP Semiconductor	PMEG6010CEH,115	1
FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3
H1, H2, H5, H6	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
H3, H4, H7, H8	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	4
J1, J2	Conn Term Block, 2POS, 5.08mm PCB	Phoenix Contact	1715721	2
J3, J4, J5	Connector, RF Jack, Vertical, Gold, SMD	Amphenol	A-1JB	3
L1	Inductor, Shielded E Core, Ferrite, 4.7uH, 18A, 0.0017 ohm, SMD	Coilcraft	SER2013-472MLB	1
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	1
Q1, Q2	MOSFET, N-CH, 55V, 42A, DPAK	International Rectifier	AUIRLR2905Z	2
R1	RES, 3.3 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06033R30JNEA	1
R2, R9	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	2
R3	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	1
R4, R8	RES, 1.0 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW08051R00JNEA	2
R5	RES, 2.4 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06032R40JNEA	1
R6	RES, 20.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060320K0FKEA	1
R7	RES, 13.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060313K0FKEA	1
R10	RES, 0.008 ohm, 1%, 1W, 2010	Vishay-Dale	WSL20108L000FEA18	1
R11	RES, 20 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060320R0JNEA	1
R12	RES, 4.22k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K22FKEA	1
R13	RES, 16k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060316K0JNEA	1
R14	RES, 57.6k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060357K6FKEA	1
R15	RES, 5.1k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06035K10JNEA	1
R16	RES, 806 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603806RFKEA	1
R17, R18, R19	RES, 49.9 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060349R9FKEA	3
TP1, TP3, TP5, TP8	Terminal, Turret, TH, Triple	Keystone	1598-2	4
TP2, TP6	Test Point, TH, Miniature, Red	Keystone	5000	2
TP4, TP9, TP11, TP12	Test Point, TH, Miniature, Black	Keystone	5001	4
TP7, TP10, TP13, TP14, TP15, TP16, TP17	Test Point, TH, Miniature, White	Keystone	5002	7

Designator	Description	Manufacturer	PartNumber	Quantity
U1	Wide Voltage Range Buck Controller, 24-pin LLP, Pb-Free	National Semiconductor	LM25117QPSQ/NOPB	1

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