

PMP9104 REVB BOM

Designator	Qty	Value	Description	Package	PartNumber	Mfg
C1	1	100uF	CAP, AL, 100uF, 100V, +/-20%, TH	10x20	100ZL100MEFC10X20	Rubycon
C2, C3, C4, C5	4	4.7uF	CAP, CERM, 4.7uF, 100V, +/-20%, X7S, 1210	1210	C3225X7S2A475M200AB	TDK
C6	1	10uF	CAP, CERM, 10uF, 50V, +/-20%, X7R, 1210	1210	C3225X7R1H106M250AC	TDK
C8, C9, C10	3	39uF	CAP, OS-CON, 39uF, 50V, +/-20%, 0.025 ohm, 8x10 SMD	8x10	50SVPF39M	Sanyo
C11	1		CAP, CERM, DNP, 100V, +/-5%, C0G/NP0, 0603	0603		TDK
C12, C16	2	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	C1608X7R1H104K	TDK
C7, C13	2	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603	GRM188R72A104KA35D	MuRata
C14	1	0.018uF	CAP, CERM, 0.018uF, 50V, +/-10%, X7R, 0603	0603	C1608X8R1H183K	TDK
C15	1	4.7uF	CAP, CERM, 4.7uF, 10V, +/-10%, X5R, 0603	0603	CGB3B1X5R1A475K055A C	TDK
C17	1	680pF	CAP, CERM, 680pF, 50V, +/-5%, C0G/NP0, 0603	0603	C1608C0G1H681J	TDK
C18	1	1uF	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	0603	C1608X5R1C105K	TDK
C19	1	47pF	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	0603	C1608C0G1H470J	TDK
D1, D4	2	BAT54HT1G	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323	BAT54HT1G	ON Semi
D2, D3	2	SBR12U100P5	Diode, Schottky, 100V, 12A, PowerDI5	PowerDI5	SBR12U100P5	Diodes Inc.
J1, J2	2		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	ED555/2DS	OST
L1	1	1uH	Inductor, Shielded, Powdered Iron, 1uH, 9.5A, 8 ohm, SMD	IHLP-2525CZ	IHLP2525CZER1R0M11	Vishay-Dale
L2	1	22uH	Inductor, Shielded, Composite, 22uH, 14A, 0.0145 ohm, SMD	15.4x11x16.4mm	XAL1510-223ME	Coilcraft
Q1, Q2	2	BSC123N08NS3G	MOSFET, N-CH, 80V, 55A, PG-TDSON-8	PG-TDSON-8	BSC123N08NS3G	Infineon
R1	1	1.00	RES, 1.00 ohm, 1%, 0.25W, 1206	1206	CRCW12061R00FKEA	Vishay-Dale
R2, R3	2	10.0	RES, 10.0 ohm, 1%, 0.1W, 0603	0603	CRCW060310R0FKEA	Vishay-Dale
R4, R5	2	DNP	RES, DNP, 1%, 0.25W, 1206	1206	DNP	Vishay-Dale
R6, R7, R9	3	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale
R8	1	0.01	RES, 0.01 ohm, 1%, 1W, 2512	2512	WSL2512R0100FEA	Vishay-Dale
R10	1	1.00Meg	RES, 1.00Meg ohm, 1%, 0.1W, 0603	0603	CRCW06031M00FKEA	Vishay-Dale
R11	1	301k	RES, 301k ohm, 1%, 0.1W, 0603	0603	CRCW0603301KFKEA	Vishay-Dale
R12	1	20.0	RES, 20.0 ohm, 1%, 0.1W, 0603	0603	CRCW060320R0FKEA	Vishay-Dale
R13	1	22.1k	RES, 22.1k ohm, 1%, 0.1W, 0603	0603	CRCW060322K1FKEA	Vishay-Dale
R14	1	20.0k	RES, 20.0k ohm, 1%, 0.125W, 0805	0805	CRCW080520K0FKEA	Vishay-Dale
R15	1	18.7k	RES, 18.7k ohm, 1%, 0.1W, 0603	0603	CRCW060318K7FKEA	Vishay-Dale
R16	1	24.9k	RES, 24.9k ohm, 1%, 0.1W, 0603	0603	CRCW060324K9FKEA	Vishay-Dale
R17	1	1.21k	RES, 1.21k ohm, 1%, 0.1W, 0603	0603	CRCW06031K21FKEA	Vishay-Dale
R18	1	909	RES, 909 ohm, 1%, 0.1W, 0603	0603	CRCW0603909RFKEA	Vishay-Dale
TP1, TP3, TP4, TP5, TP7, TP9, TP10, TP11	8	Red	Test Point, TH, Miniature, Red	Keystone5000	5000	Keystone
TP2, TP6, TP8, TP12, TP13	5	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone
U1	1	LM5118MH	Wide Voltage Range Buck-Boost Controller, 20-pin TSSOP-EP	MXA20A	LM5118MH	TI

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