

PMP9648 REVB BOM

Designator	Qty	Value	Description	Package	PartNumber	Manufacturer
C12	1	0.01uF	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603	C1608X7R1H103K	TDK
C14	1	4700pF	CAP, CERM, 4700pF, 50V, +/-10%, X7R, 0603	0603	C1608X7R2A472K	TDK
C3, C15	2	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603	GRM188R72A104KA35D	MuRata
C9, C10	2	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603	C1608C0G1H101J	TDK
C13	1	open	CAP, CERM, open, 0603	0603		
C17	1	2.2uF	CAP, CERM, 2.2uF, 16V, +/-10%, X7R, 0805	0805	C2012X7R1C225K	TDK
C6	1	33pF	CAP, CERM, 33pF, 100V, +/-5%, C0G/NP0, 0805	0805	GRM2195C2A330JZ01D	MuRata
C8	1	10uF	CAP, CERM, 10uF, 16V, +/-20%, X7R, 1206	1206	C3216X7R1C106M	TDK
C7	1	1uF	CAP, CERM, 1uF, 100V, +/-20%, X7R, 1206	1206	C3216X7R2A105M160AA	TDK
C16	1	1000pF	CAP, CERM, 1000pF, 2000V, +/-10%, X7R, 1210	1210	C1210C102KGRACU	Kemet
C2	1	2.2uF	CAP, CERM, 2.2uF, 100V, +/-20%, X7R, 1210	1210	C3225X7R2A225M230AB	TDK
C4, C5	2	22uF	CAP, CERM, 22uF, 16V, +/-20%, X7R, 1210	1210	C3225X7R1C226M250AC	TDK
C1	1	47uF	CAP, AL, 47uF, 100V, +/-20%, 0.32 ohm, SMD	SMT Radial H13	EEV-FK2A470Q	Panasonic
D2	1	MURA120T3G	Diode, Ultrafast, 200V, 1A, SMA	SMA	MURA120T3G	ON Semi
D3	1	MBRS360T3G	Diode, Schottky, 60V, 3A, SMC	SMC	MBRS360T3G	ON Semi
D4	1	BAS16W-7-F	Diode, Switching, 75V, 0.15A, SOT-323	SOT-323	BAS16W-7-F	Diodes Inc.
D5	1	12V	Diode, Zener, 12V, 500mW, SOD-123	SOD-123	MMSZ5242B-7-F	Diodes Inc.
D7	1	BAT54ST-7-F	Diode, Schottky, 30V, 0.2A, SOT-523	SOT-523	BAT54ST-7-F	Diodes Inc.
J1, J2	2		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	ED555/2DS	OST
J3	1		Header, 100mil, 2x1, Tin plated, TH	Header, 2 PIN, 100mil, Tin	PEC02SAAN	Sullins
Q1	1	BSC22DN20NS3 G	MOSFET, N-CH, 200V, 7A, PG-TSDSON-8	PG-TSDSON-8	BSC22DN20NS3 G	Infineon
R7, R10	2	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	MCR03EZPJ000	Rohm
R8	1	2.49k	RES, 2.49k ohm, 1%, 0.1W, 0603	0603	CRCW06032K49FKEA	Vishay-Dale
R19	1	11.3k	RES, 11.3k ohm, 1%, 0.1W, 0603	0603	CRCW060310K3FKEA	Vishay-Dale
R18	1	10.0k	RES, 10.0k ohm, 1%, 0.1W, 0603	0603	CRCW060310K0FKEA	Vishay-Dale
R2, R14, R17	3	100k	RES, 100k ohm, 1%, 0.1W, 0603	0603	CRCW0603100KFKEA	Vishay-Dale
R11	1	19.1k	RES, 19.1k ohm, 1%, 0.1W, 0603	0603	CRCW060319K1FKEA	Vishay-Dale
R16	1	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	0603	CRCW06032K00FKEA	Vishay-Dale
R9	1	221	RES, 221 ohm, 1%, 0.1W, 0603	0603	CRCW0603221RFKEA	Vishay-Dale
R3	1	3.3	RES, 3.3 ohm, 5%, 0.1W, 0603	0603	CRCW06033R30JNEA	Vishay-Dale
R6	1	3.74k	RES, 3.74k ohm, 1%, 0.1W, 0603	0603	CRCW06033K74FKEA	Vishay-Dale
R100	1	49.9	RES, 49.9 ohm, 1%, 0.1W, 0603	0603	CRCW060349R9FKEA	Vishay-Dale
R4	1	100	RES, 100 ohm, 5%, 0.125W, 0805	0805	CRCW0805100RJNEA	Vishay-Dale
R12	1	0.33	RES, 0.33 ohm, 1%, 0.5W, 1206	1206	CSR1206FKR330	Stackpole
R5	1	20	RES, 20 ohm, 5%, 0.25W, 1206	1206	CRCW120620R0JNEA	Vishay-Dale
R1	1	49.9k	RES, 49.9k ohm, 5%, 0.25W, 1206	1206	CRCW120649K9JNEA	Vishay-Dale
T1	1	RLTI-1110	Transformer, 82uH, 1MHz, 18:7:5, SMT	0.73x0.85"	RLTI-1110	Renco
TP1, TP3, TP5, TP6	4	Red	Test Point, TH, Miniature, Red	Keystone5000	5000	Keystone
TP2, TP4, TP7	3	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone
U1	1	LM5022MM	60V Low Side Controller for Boost and SEPIC, 10-pin MSOP	MUB10A	LM5022MM	TI
U2	1	FOD817AS	Optocoupler, 5kV RMS, 80% - 160%, SMT	DIP-4L Gullwing	FOD817AS	Fairchild
U3	1	LMV431AIMFX	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 3-pin SOT-23, Pb-Free	MF03A	LMV431AIMFX/NOPB	TI

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