

## PMP9446 REV 1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB?	1		PMP7899	Any	PMP7899	N/A
C2, C3	2	150uF	EEV-FK1J151Q	Panasonic	CAP, AL, 150uF, 63V, +/-20%, 0.16 ohm, SMD	SMT Radial H13
C4	1	1uF	C3216X7R2A105M	TDK	CAP, CERM, 1uF, 100V, +/-20%, C Series, 1206	1206
C5, C6, C7, C8	4	10uF	C3216X7R1E106M	TDK	CAP, CERM, 10uF, 25V, X7R, 20%, 1206	1206
C9	1	1uF	C2012X5R1E105K	TDK	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0805	0805
C10	1	0.01uF	C2012C0G1E103J	TDK	CAP, CERM, 0.01uF, 25V, +/-5%, C0G/NP0, 0805	0805
C11	1	10uF	GRM31CR61E106KA12L	MuRata	CAP, CERM, 10uF, 25V, +/-10%, X5R, 1206	1206
C12	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C13	1	1uF	GRM188R61C105KA93D	MuRata	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	0603
C15	1	100pF	C1608C0G2A101J	TDK	CAP, CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	0603
C17	1	1000pF	C1206C102KFRACU	Kemet	CAP CER 1000PF 1.5KV X7R 1206	1206
C18	1	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
Cx1	1	470uF		SUNCON	CAP, Al Electrolytic, 470uF, 16V, TH	
D1	1	1.25V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100V, 0.15A, SOD-123	SOD-123
D2	1	600V	C3D10060G	CREE	Diode, SiC Schottky, 600V, 14A, D2PAK	D2PAK
D6, Dx1	2	0.35V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D7	1	12V	MMSZ4699-V	Vishay-Semiconductor	Diode, Zener, 12V, 500mW, SOD-123	SOD-123
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
Q1	1	80V	BSC047N08NS3 G	Infineon Technologies	MOSFET, N-CH, 80V, 100A, PG-TDSON-8	PG-TDSON-8
R2	1	3.32	CRCW12063R32FKEA	Vishay-Dale	RES, 3.32 ohm, 1%, 0.25W, 1206	1206
R3	1	46.4k	CRCW060346K4FKEA	Vishay-Dale	RES, 46.4k ohm, 1%, 0.1W, 0603	0603
R4	1	9.76	CRCW12069R76FKEA	Vishay-Dale	RES, 9.76 ohm, 1%, 0.25W, 1206	1206
R5, R9	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R6	1	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.125W, 0805	0805
R7, R15	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R8	1	3.01	CRCW06033R01FKEA	Vishay-Dale	RES, 3.01 ohm, 1%, 0.1W, 0603	0603
R11	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R12	1	499	CRCW0805499RFKEA	Vishay-Dale	RES, 499 ohm, 1%, 0.125W, 0805	0805
R13	1	3.16k	CRCW06033K16FKEA	Vishay-Dale	RES, 3.16k ohm, 1%, 0.1W, 0603	0603
R14	1	43.2k	CRCW060343K2FKEA	Vishay-Dale	RES, 43.2k ohm, 1%, 0.1W, 0603	0603
T1	1		NA6264-AL	CoilCraft	COILCRAFT TRANSFORMER	NAXXXX-AL
T2	1		PA1005.100NL	Pulse Engineering	SMT Current Sense Transformer	P82xx
TP1, TP2, TP3, TP4	4	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
TP5, TP7	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
TP6, TP8	2	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
TP9, TP10	2	White	5002	Keystone	Test Point, TH, Miniature, White	Keystone5002
U1	1		LM5022MME/NOPB	Texas Instruments	60V Low Side Controller for Boost and SEPIC, 10-pin MSOP, Pb-Free	MUB10A
U3	1		PS2501L-1-A	California Eastern Laboratories	High Isolation Voltage Single Transistor Type OptoCoupler	PS2501L-1
U4	1		LMV431ACM5	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator, 5-pin SOT-23	MF05A
C1	0	100pF	C1608C0G2A101J	TDK	CAP, CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	0603
C14	0	0.1uF	C0603C104K3RACTU	Kemet	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
C16	0	DNP	C2012Y5V1H105Z	TDK	Capacitor	
D3	0	39V	1SMB5939BT3G	ON Semiconductor	Diode, Zener, 39V, 550mW, SMB	SMB
D4	0	0.35V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D5	0	0.75V	MBRS1100T3G	ON Semiconductor	Diode, Schottky, 100V, 1A, SMB	SMB
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R1	0	100	CRCW1206100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.25W, 1206	1206
R10	0	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603

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