

## PMP9720 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP9720	Any	Printed Circuit Board	
C1, C15, C18, C19, C20, C28	6	0.1uF	C1005X7R1H104M	TDK	CAP, CERM, 0.1uF, 50V, +/-20%, C0G/NP0, 0402	0402
C2	1	1000pF	STD	STD	CAP, CERM, 1000pF, 3kV, 1808	1808
C3, C4, C5, C6, C7	5	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210
C9	1	330uF	16SVP330M	Sanyo	CAP, OS-CON, 330uF, 16V, +/-20%, 0.016 ohm, 10x10.3 SMD	10x10.3
C10, C11, C12	3	22uF	GRM32ER61E226KE15L	MuRata	CAP, CERM, 22uF, 25V, +/-10%, X5R, 1210	1210
C14	1	0.1uF	C3216X7R2E104K	TDK	CAP, CERM, 0.1uF, 250V, +/-10%, X7R, 1206	1206
C16	1	0.047uF	C2012X7R2A473K	TDK	CAP, CERM, 0.047uF, 100V, +/-10%, X7R, 0805	0805
C21	1	220uF	EEE-FK1C221XP	Panasonic	CAP, AL, 220uF, 16V, +/-20%, 0.34 ohm, SMD	SMT Radial D8
C22	1	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	0402
C23	1	0.22uF	GRM155R61A224KE19D	MuRata	CAP, CERM, 0.22uF, 10V, +/-10%, X5R, 0402	0402
C25	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0402	0402
C26, C30, C31, R21, R25, R27	6	DNP	N/A	N/A	Do Not Populate	0402
C27	1	0.01uF	C1005X7R1E103K	TDK	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0402	0402
C29	1	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	0402
C32	1	1000pF	C1005X7R1H102K	TDK	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0402	0402
C33	1	4.7uF	C3216X7R1E475K	TDK	CAP, CERM, 4.7uF, 25V, +/-10%, X7R, 1206	1206
D1, D8, D13	3	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D2, D4, D9	3	1.25V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200V, 0.2A, SOD-123	SOD-123
D3	1	100V	US1B-13-F	Diodes Inc.	Diode, Ultrafast, 100V, 1A, SMA	SMA
D5, D6, D7, D10, D11	5	1.4V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D12	1	6.8V	MMSZ4692-V	Vishay-Semiconductor	Diode, Zener, 6.8V, 500mW, SOD-123	SOD-123
J1, J2	2		691214310002	Würth Elektronik eiSos	Terminal Block, 2x1, 3.81mm, 24-16 AWG, 10A, 300VAC, TH	2x1 Terminal Block
L1	1	4.7uH	SER2013-472MLB	Coilcraft	Inductor, Shielded E Core, Ferrite, 4.7uH, 18A, 0.0017 ohm, SMD	SER2013
L5	1	1mH	LPS4414-105MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 1mH, 0.11A, 16.3 ohm, SMD	LPS4414
Q2, Q7	2	60V	CSD18532Q5B	Texas Instruments	MOSFET, N-CH, 60V, 172A, SON 5x6mm	SON 5x6mm
Q3	1	-150V	IRF6216TRPBF	International Rectifier	MOSFET, P-CH, -150V, -2.2A, SO-8	SO-8
Q5	1	DNP	DNP	N/A	Do Not Populate	SON 5x6mm
Q6	1	150V	FDMS86255	Fairchild Semiconductor	MOSFET, N-CH, 150V, 10A, SON 5x6mm	SON 5x6mm
Q8	1	0.5V	BCX5616TA	Diodes Inc.	Transistor, NPN, 80V, 1A, SOT-89	SOT-89
R1, R9	2	5.1k	CRCW08055K10JNEA	Vishay-Dale	RES, 5.1k ohm, 5%, 0.125W, 0805	0805
R3	1	0.1	ERJ-6RSJR10V	Panasonic	RES, 0.1 ohm, 5%, 0.125W, 0805	0805
R4, R6, R14, R24, R28	5	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
R5	1	3.3	CRCW08053R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.125W, 0805	0805
R7	1	20.0k	CRCW080520K0FKEA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.125W, 0805	0805
R8, R13	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
R10, R26	2	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00k ohm, 1%, 0.063W, 0402	0402
R12	1	301k	CRCW0402301KFKED	Vishay-Dale	RES, 301k ohm, 1%, 0.063W, 0402	0402
R15	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100k ohm, 1%, 0.063W, 0402	0402
R17	1	8.66k	CRCW04028K66FKED	Vishay-Dale	RES, 8.66k ohm, 1%, 0.063W, 0402	0402
R19	1	57.6k	CRCW040257K6FKED	Vishay-Dale	RES, 57.6k ohm, 1%, 0.063W, 0402	0402
R20	1	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00k ohm, 1%, 0.063W, 0402	0402

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R22	1	75.0k	CRCW040275K0FKED	Vishay-Dale	RES, 75.0k ohm, 1%, 0.063W, 0402	0402
R23	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99k ohm, 1%, 0.063W, 0402	0402
R29	1	2.61k	CRCW04022K61FKED	Vishay-Dale	RES, 2.61k ohm, 1%, 0.063W, 0402	0402
T1	1	50uH	RA7040-AL	Coilcraft	Transformer, 50uH, SMT	820x375x920 mil
T2	1	2000uH	CST2-100L	Coilcraft	Transformer, 2000uH, SMT	8X8.13MM-6P
TP1, TP2	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP4	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1, U3, U4	3		UCC27511DBV	Texas Instruments	Single-Channel High-Speed Low-Side Gate Driver (with 4-A Peak Source and 8-A Peak Sink), DBV0006A	DBV0006A
U5	1		UCC2897ARGPR	Texas Instruments	Advanced Active Clamp PWM Controller with Current Control, -40 to +125 degC, 20-pin QFN (RGP), Green (RoHS & no Sb/Br)	RGP0020D
U6	1		VOS617A-7X001T	Vishay-Semiconductor	OptoCoupler, Phototransistor, 80-160%, SSOP-4	7x2.12x2.6mm
U7	1		TL431AIDBZ	Texas Instruments	PRECISION PROGRAMMABLE REFERENCE, DBZ0003A	DBZ0003A

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