

## PMP8973 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		PMP8973	Any	Printed Circuit Board	
C1	1	1000pF	STD	STD	CAP, CERM, 1000pF, 3kV, 1808	1808
C2, C4, C5, C6, C7	5	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210
C3	1	470uF	RS80J471MDNASQJT	Nichicon	CAP, AL, 470uF, 6.3V, +/-20%, 0.008 ohm, TH	RCAP, 6.3x8mm
C8	1	0.033uF	STD	STD	CAP, CERM, 100V, +/-10%, X7R, 0805	0805
C9, C100, C101	3	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47uF, 25V, +/-20%, X5R, 1206	1206
C10	1	47uF	STD	STD	CAP, CERM, 16V, +/-10%, X7R, 1210	1210
C11, C13, C17	3	0.1uF	STD	STD	CAP, CERM, 25V, +/-10%, X7R, 0402	0402
C14, C20, C24	3	1uF	STD	STD	CAP, CERM, 16V, +/-10%, X5R, 0402	0402
C16	1	1000pF	STD	STD	CAP, CERM, 25V, +/-10%, X7R, 0402	0402
C18	1	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0402	0402
C19	1	100pF	GRM1535C1H101JDD5D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0402	0402
C22, R25	2	DNP	N/A	N/A	Do Not Populate	0402
C23	1	0.01uF	C1005X8R1E103K	TDK	CAP, CERM, 0.01uF, 25V, +/-10%, X8R, 0402	0402
D1	1	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100V, 0.2A, SOD-123	SOD-123
D2	1	5.1V	MMSZ4689-V	Vishay-Semiconductor	Diode, Zener, 5.1V, 500mW, SOD-123	SOD-123
D3, D4, D5	3	1.4V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D6	1	1.25V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200V, 0.2A, SOD-123	SOD-123
D7	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D100	1	24V	SMAJ24A-13-F	Diodes Inc.	Diode, TVS, Uni, 24V, 400W, SMA	SMA
L1	1	1.5uH	XAL1010-152MEB	Coilcraft	Inductor, Shielded, Composite, 1.5uH, 36.6A, 0.0016 ohm, SMD	Inductor, 11.3x10x10mm
L2	1	1mH	LPS4414-105MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 1mH, 0.11A, 16.3 ohm, SMD	LPS4414
Q1	1	0.7V	BC846BLT1G	ON Semiconductor	Transistor, NPN, 65V, 0.1A, SOT-23	SOT-23
Q2	1	25V	CSD16415Q5	Texas Instruments	MOSFET, N-CH, 25V, 100A, SON 5x6mm	SON 5x6mm
Q3	1	40V	CSD18502Q5B	Texas Instruments	MOSFET, N-CH, 40V, 100A, SON 5x6mm	SON 5x6mm
Q6	1	-30V	IRF6216TRPBF	International Rectifier	MOSFET P-CH 150V 2.2A 8-SOIC	SOIC-8
Q9	1	100V	CSD19533Q5A	Texas Instruments	MOSFET, N-CH, 100V, 13A, SON 5x6mm	SON 5x6mm
Q11	1	0.25V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
R1	1	511	STD	STD	RES, 1%, 0.125W, 0805	0805
R2, R16, R18	3	10k	STD	STD	RES, 1%, 0.063W, 0402	0402
R4	1	10	STD	STD	RES, 1%, 0.1W, 0603	0603
R5	1	4.7	STD	STD	RES, 1%, 0.125W, 0805	0805
R7	1	38.3k	STD	STD	RES, 1%, 0.063W, 0402	0402
R8, R13	2	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9k ohm, 1%, 0.063W, 0402	0402
R9	1	0	STD	STD	RES, 1%, 0.063W, 0402	0402
R10	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
R11	1	3.01k	STD	STD	RES, 1%, 0.063W, 0402	0402
R12	1	90.9k	CRCW040290K9FKED	Vishay-Dale	RES, 90.9k ohm, 1%, 0.063W, 0402	0402
R14, R21	2	100k	STD	STD	RES, 1%, 0.063W, 0402	0402
R15	1	1k	STD	STD	RES, 1%, 0.1W, 0603	0603
R17, R22	2	37.4k	CRCW040237K4FKED	Vishay-Dale	RES, 37.4k ohm, 1%, 0.063W, 0402	0402
R19, R24, R27	3	1k	STD	STD	RES, 1%, 0.063W, 0402	0402
R20	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1k ohm, 1%, 0.063W, 0402	0402
R23	1	499	STD	STD	RES, 1%, 0.1W, 0603	0603
R26, R28	2	100	STD	STD	RES, 1%, 0.125W, 0805	0805

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T1	1	240 Uh	PH0810_008CNL	Pulse Engineering	Transformer, High Frequency Flat Coil Planar	21.59x9.1x24.65 mm
T2	1	2000uH	CST2-100L	Coilcraft	Transformer, 2000uH, SMT	8X8.13MM-6P
TP1, TP2, TP5, TP6	4		8600-0-05-80-00-00-03-0	Mill-Max	PCB Pin, solderless Pressfit, Tin over Nickel	PCB Pin
TP3, TP4	2		8952-0-05-80-00-00-03-0	Mill-Max	PCB Pin, solderless Pressfit, Tin over Nickel	PCB Pin
U1	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
U2	1		VOL618A-2T	Vishay-Semiconductor	OPTOCOUPLR PHOTOTRANS 125% 4LSOP	8x2x4mm
U3	1		LM4041D12IDBZR	Texas Instruments	IC VREF SHUNT PREC 1.225V SOT23	MF03A
U4	1		TLV272IDGK	Texas Instruments	500-uA/Ch 3-MHz RAIL-TO-RAIL OUTPUT OPERATIONAL AMPLIFIER, DGK0008A	DGK0008A

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