

PMP10871 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		PMP10871	Any	Printed Circuit Board	
2	C1, C11, C13, C15, C24	5	0.1uF	C1005X7R1H104M	TDK	CAP, CERM, 0.1uF, 50V, +/-20%, COG/NPO, 0402	0402
3	C2	1	1uF	GRM188R61H105KAALD	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X5R, 0603	0603
4	C3, C28	2	0.01uF	C1005X7R1E103K	TDK	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0402	0402
5	C4, C30	2	10uF	GRM21BR61C106KE15L	MuRata	CAP, CERM, 10 uF, 16 V, +/- 10%, X5R, 0805	0805
6	C5, C6	2	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	1210
7	C7, C8, C9, C10	4	47uF	GRM31CR61A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X5R, 1206	1206
8	C12	1	0.047uF	GRM21BR72A473KA01L	MuRata	CAP, CERM, 0.047 uF, 100 V, +/- 10%, X7R, 0805	0805
9	C14	1	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	0402
10	C16	1	0.22uF	GRM155R61A224KE19D	MuRata	CAP, CERM, 0.22uF, 10V, +/-10%, X5R, 0402	0402
11	C17, C18, C19, C20	4	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
12	C21	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0402	0402
13	C22	1	1000pF	STD	STD	CAP, CERM, 1000pF, 3kV, 1808	1808
14	C25, C26	2	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	0402
15	C29	1	1000pF	C1005X7R1H102K	TDK	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0402	0402
16	C100	1	220pF	C0603C221J5GACTU	Kemet	CAP, CERM, 220 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
17	D1	1	50V	ES1A-13-F	Diodes Inc.	Diode, Ultrafast, 50 V, 1 A, SMA	SMA
18	D2, D3, D5, D6, D7, D8	6	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
19	D4	1	1.4V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
20	D9	1	30V	BAT54SWT1G	Fairchild Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOT-323	SOT-323
21	J1	1		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
22	L1	1	22uH	7447709220	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 22 uH, 5.3 A, 0.0233 ohm, SMD	WE-PD-XXL
23	L2	1	1mH	74476630	Würth Elektronik eiSos	Inductor, Wirewound, 1 mH, 0.03 A, 50 ohm, SMD	1812
24	Q1	1	-80V	FDC3535	Fairchild Semiconductor	MOSFET, P-CH, -80V, 2.1A, SSOT-6	SSOT-6
25	Q2	1	100V	CSD19534Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 10 A, SON 5x6mm	SON 5x6mm
26	Q3, Q4	2	30V	CSD17578Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 14 A, SON 3.3x3.3mm	SON 3.3x3.3mm
27	R1	1	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
28	R3	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99k ohm, 1%, 0.063W, 0402	0402
29	R4	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
30	R5, R10	2	2.49k	CRCW08052K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.125 W, 0805	0805
31	R6	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
32	R7, R22, R23, R24	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
33	R8	1	0.1	ERJ-8BWJR100V	Panasonic	RES, 0.1, 5%, 0.5 W, 1206	1206
34	R9, R18, R19	3	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00k ohm, 1%, 0.063W, 0402	0402
35	R11	1	38.3k	CRCW040238K3FKED	Vishay-Dale	RES, 38.3 k, 1%, 0.063 W, 0402	0402
36	R12	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
37	R13	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
38	R14	1	3.01k	CRCW04023K01FKED	Vishay-Dale	RES, 3.01 k, 1%, 0.063 W, 0402	0402
39	R15	1	84.5k	CRCW040284K5FKED	Vishay-Dale	RES, 84.5 k, 1%, 0.063 W, 0402	0402
40	R16	1	115k	CRCW0402115KFKED	Vishay-Dale	RES, 115 k, 1%, 0.063 W, 0402	0402
41	R17	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
42	R20	1	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, 0402	0402
43	R25	1	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, 0402	0402
44	R100	1	20	CRCW060320R0JNEA	Vishay-Dale	RES, 20, 5%, 0.1 W, 0603	0603
45	T1	1	48 uH	750315435	Würth Elektronik eiSos	Transformer, 48 uH, SMT	17.65x14mm
46	TP1	1	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
47	TP2	1	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
48	TP3	1	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
49	TP4	1	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
50	U1	1		TPS7A4101DGN	Texas Instruments	50-V Input Voltage, 50-mA, Very High Voltage LINEAR REGULATOR, DGN0008B	DGN0008B
51	U2, U4	2		UCC27511DBVR	Texas Instruments	Single-Channel High-Speed Low-Side Gate Driver (with 4-A Peak Source and 8-A Peak Sink), DBV0006A	DBV0006A
52	U3	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
53	U5	1		VOS617A-7X001T	Vishay-Semiconductor	OptoCoupler, Phototransistor, 80-160%, SSOP-4	7x2.12x2.6mm
54	U6	1		TLV431AIDBZ	Texas Instruments	LOW-VOLTAGE ADJUSTABLE PRECISION SHUNT REGULATOR, DBZ0003A	DBZ0003A
55	C27	0	0.01uF	C1005X7R1E103K	TDK	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0402	0402
56	R2	0	10k	CRCW120610K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.25 W, 1206	1206
57	R21	0	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, 0402	0402

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