

PMP15002 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		PMP15002	Any	Printed Circuit Board	
2	BR1	1	600V	HD06-T	Diodes Inc.	Diode, Switching-Bridge, 600V, 0.8A, MiniDIP	MiniDIP
3	C1, C5	2	100pF	VJ0805A101JXGAT5Z	Vishay-Vitramon	CAP, CERM, 100pF, 1000V, +/-5%, COG/NP0, 0805	0805
4	C2	1	10uF	EEUED2G100	Panasonic	CAP, AL, 10uF, 400V, +/-20%, 2.864788 ohm, TH	10x20
5	C3	1	0.1uF	GRM43DR72J104KW01L	MuRata	CAP, CERM, 0.1uF, 630V, +/-10%, X7R, 1812	1812
6	C4	1	22uF	EEUED2G220	Panasonic	CAP, AL, 22uF, 400V, +/-20%, 1.302176 ohm, TH	12.5x25
7	C6	1	470pF	GRM31A7U2J471JW31D	MuRata	CAP, CERM, 470 pF, 630 V, +/- 5%, U2J, 1206	1206
8	C7, C8	2	820uF	RL80J821MDN1KX	Nichicon	CAP, AL, 820 uF, 6.3 V, +/- 20%, 0.008 ohm, TH	D8xL8
9	C9	1	10uF	GRM31CR70J106KA01L	MuRata	CAP, CERM, 10uF, 6.3V, +/-10%, X7R, 1206	1206
10	C10	1	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
11	C11	1	2200pF	08055C222KAT2A	AVX	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0805	0805
12	C12	1	220pF	12061A221KAT2A	AVX	CAP, CERM, 220 pF, 100 V, +/- 10%, COG/NP0, 1206	1206
13	C13	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
14	C15	1	100pF	CD70-B2GA101KYNKA	TDK	CAP, CERM, 100 pF, 440 V, +/- 10%, B, 7.0x11.0x7.0mm	7.0x11.0x7.0mm
15	C16	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
16	C17	1	100pF	06035A101JAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
17	D2	1	1000V	MRA4007T3G	ON Semiconductor	Diode, Standard Recovery Rectifier, 1000V, 1A, SMA	SMA
18	D3, D4	2	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
19	F1	1		39213150000	Littelfuse	Fuse, 3.15A, 2500V, TH	8x8.5x4mm
20	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
21	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
22	J1, J2	2		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
23	L1	1	150uH	13R154C	MuRata	Inductor, Drum Core, Ferrite, 150uH, 0.82A, 0.33 ohm, TH	Inductor, 9.5x13.5mm
24	L2	1		T953-0.45	Dongguan Fengyue	Common mode Inductor, 800uH@1kHz/0.25V, TH	5mmx12mm
25	LBL1	1		TH1-14-423-10	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
26	Q1	1	60V	CSD18531Q5A	Texas Instruments	MOSFET, N-CH, 60 V, 19 A, SON 5x6mm	SON 5x6mm
27	Q2	1	700V	SW6N70P	SAMWIN	MOSFET, N-CH, 700V, 6A, TO-251	IPAK
28	R1, R3	2	1.50k	CRCW08051K50FKEA	Vishay-Dale	RES, 1.50k ohm, 1%, 0.125W, 0805	0805
29	R2, R5, R9	3	3.83Meg	CRCW08053M83FKEA	Vishay-Dale	RES, 3.83 M, 1%, 0.125 W, 0805	0805
30	R4	1	499k	CRCW1206499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.25 W, 1206	1206
31	R6	1	976	CRCW0603976RFKEA	Vishay-Dale	RES, 976, 1%, 0.1 W, 0603	0603
32	R7	1	20	CRCW120620R0JNEA	Vishay-Dale	RES, 20, 5%, 0.25 W, 1206	1206
33	R8A	1	200	ERJ-8ENF2000V	Panasonic	RES, 200, 1%, 0.25 W, 1206	1206
34	R10	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10 ohm, 5%, 0.1W, 0603	0603
35	R11	1	150k	CRCW0805150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.125 W, 0805	0805
36	R12	1	95.3k	CRCW080595K3FKEA	Vishay-Dale	RES, 95.3 k, 1%, 0.125 W, 0805	0805
37	R13	1	80.6k	CRCW060380K6FKEA	Vishay-Dale	RES, 80.6 k, 1%, 0.1 W, 0603	0603
38	R14	1	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, 0603	0603
39	R15	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, 0603	0603
40	R16	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00Meg ohm, 1%, 0.1W, 0603	0603
41	R17	1	1.20	CRCW12061R20FKEA	Vishay-Dale	RES, 1.20, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
42	R18	1	1.50	CRCW12061R50FKEA	Vishay-Dale	RES, 1.50, 1%, 0.25 W, 1206	1206
43	R19	1	274	CRCW0805274RFKEA	Vishay-Dale	RES, 274, 1%, 0.125 W, 0805	0805
44	R20	1	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.1 W, 0603	0603
45	R21	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
46	R22	1	21.0k	CRCW060321K0FKEA	Vishay-Dale	RES, 21.0 k, 1%, 0.1 W, 0603	0603
47	R23	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
48	R24	1	2.15	CRCW06032R15FKEA	Vishay-Dale	RES, 2.15, 1%, 0.1 W, 0603	0603
49	T1	1	560uH	RLTI-1197	Renco	Transformer, Discontinuous Mode Flyback, 15W, LLLuH, SM	transformer, RM7
50	TP1, TP4	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
51	TP2	1	White	5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
52	TP3	1	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
53	U1	1		UCC28704DBVR-1	Texas Instruments	CV/CC Flyback Controller with Primary-Side Regulation (PSR) and CC Under-Voltage Protection, DBV0006A	DBV0006A
54	U2	1		UCC24636DBVR	Texas Instruments	SYNCHRONOUS RECTIFIER CONTROLLER WITH LOW POWER STANDBY, DBV0006A	DBV0006A
55	C14	0	10pF	C1608C0G1H100D	TDK	CAP, CERM, 10pF, 50V, +/-5%, COG/NP0, 0603	0603
56	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
57	R8B	0	200	ERJ-8ENF2000V	Panasonic	RES, 200, 1%, 0.25 W, 1206	1206

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