

PMP7391 REV C Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		PMP7391	Any	Printed Circuit Board	
2	C2, C4	2	0.047uF	GRM32DR72J473KW01L	MuRata	CAP, CERM, 0.047 uF, 630 V, +/- 10%, X7R, 1210	1210
3	C3	1	100uF	ESMQ451VSN101MP25S	Chemi-Con	CAP, AL, 100 uF, 450 V, +/- 20%, TH	Cap 22x25mm
4	C5, C9, C12	3	0.1uF	GRM188R61E104KA01D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0603	0603
5	C6	1	680uF	EKZE350ELL681MK20S	Chemi-Con	CAP, AL, 680 uF, 35 V, +/- 20%, 0.021 ohm, TH	D12.5xL20mm
6	C7, C15	2	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0603	0603
7	C8, C19	2	1uF	GRM31MR71H105KA88L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 1206	1206
8	C11	1	0.01uF	GRM21BR72E103KW03L	MuRata	CAP, CERM, 0.01 uF, 250 V, +/- 10%, X7R, 0805	0805
9	C13	1	2200pF	DE2E3KY222MA2BM01	MuRata	CAP, CERM, 2200pF, 250V, +/-20%, KY, Radial D8x5mm	Radial D8x5mm
10	C14	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
11	C16	1	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
12	C17	1	0.022uF	GRM188R61H223KA01D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X5R, 0603	0603
13	C18	1	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
14	D5, D12	2	100V	BAV99,215	NXP Semiconductor	Diode, Switching, 100 V, 0.215 A, SOT-23	SOT-23
15	D6	1	150V	MBR20H150CTG	ON Semiconductor	Diode, Schottky, 150 V, 10 A, TH	TO-220AB
16	D7, D10	2	30V	BAT54T1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
17	D8	1	100V	VS-43CTQ100PBF	Vishay-Semiconductor	Diode, Schottky, 100 V, 20 A, TH	TO-220AB
18	D9	1	200V	MURA120T3G	ON Semiconductor	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
19	D11	1	100V	SMCJ100A	Littelfuse	Diode, TVS, Uni, 100 V, 1500 W, SMC	SMC
20	H1, H2, H3	3		634-10ABP	Wakefield Solutions	Heat Sink, TO-220, TH	16.26x25.4x16.26 mm
21	J1	1	2x1	1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
22	L1	1	100uH	G044097	GCI Technologies	Inductor, Toroid, 100 uH, 6 A, 0.02 ohm, TH	D27.9xH16.76mm
23	Q1	1	800V	SPP02N80C3	Infineon Technologies	MOSFET, N-CH, 800 V, 2 A, TO-220AB	TO-220AB
24	Q2, Q6	2	60 V	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
25	Q4	1	40 V	MMBT2222ALT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.6 A, SOT-23	SOT-23
26	Q5	1	900V	IPP90R1K2C3	Infineon Technologies	MOSFET, N-CH, 900 V, 5.1 A, TO-220AB	TO-220AB
27	R3, R18	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
28	R4	1	3.3	CRCW08053R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.125 W, 0805	0805
29	R5, R6, R7	3	680	CRCW2512680RJNEG	Vishay-Dale	RES, 680, 5%, 1 W, 2512	2512
30	R8, R9, R10, R11, R13, R14	6	464k	CRCW1206464KFKEA	Vishay-Dale	RES, 464 k, 1%, 0.25 W, 1206	1206
31	R15	1	4.7	CRCW08054R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.125 W, 0805	0805
32	R19	1	0.2	CSRN2010FRK200	Stackpole Electronics Inc	RES, 0.2, 1%, 1 W, 2010	2010
33	R22	1	301k	CRCW0603301KFKEA	Vishay-Dale	RES, 301 k, 1%, 0.1 W, 0603	0603
34	R23	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
35	R25, R30, R100	3	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
36	R26	1	4.12k	CRCW06034K12FKEA	Vishay-Dale	RES, 4.12 k, 1%, 0.1 W, 0603	0603
37	R27	1	17.4k	CRCW060317K4FKEA	Vishay-Dale	RES, 17.4 k, 1%, 0.1 W, 0603	0603
38	R28	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
39	R29, R33	2	0	CRCW0603000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
40	R31, R34	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
41	R32	1	21.5k	CRCW060321K5FKEA	Vishay-Dale	RES, 21.5 k, 1%, 0.1 W, 0603	0603
42	R35	1	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.1 W, 0603	0603
43	T1	1	1.5mH	G044050	GCI Technologies	Transformer, 1.5mH, TH	39x32mm
44	T2	1	300uH	G044052LF	GCI Technologies	Gate Drive Transformer, 300uH, TH	13.97x13.3x13.97mm
45	TP1, TP3, TP5	3	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
46	TP2, TP4, TP6	3	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
47	U3	1		UCC2894D	Texas Instruments	Active Clamp PWM Controller with Current Control, -40 to +85 degC, 16-pin SOIC (D), Green (RoHS & no Sb/Br)	D0016A
48	U4	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
49	U5	1		TL431ACDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
50	C1, C10	0	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	0402
51	D1, D4	0	75V	BAS16-7-F	Diodes Inc.	Diode, Ultrafast, 75 V, 0.3 A, SOT-23	SOT-23
52	D2	0	36V	BZT52C36-TP	Micro Commercial Components	Diode, Zener, 36 V, 500 mW, SOD-123	SOD-123
53	D3	0	12V	MMSZ5242B-7-F	Diodes Inc.	Diode, Zener, 12 V, 500 mW, SOD-123	SOD-123
54	Q3	0	100V	CSD19534Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 10 A, SON 5x6mm	SON 5x6mm
55	Q7	0	150V	BSC190N15NS3 G	Infineon Technologies	MOSFET, N-CH, 150 V, 50 A, PG-TDSON-8	PG-TDSON-8
56	R1	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
57	R2, R21	0	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	0402
58	R12	0	750k	CRCW0402750KFKED	Vishay-Dale	RES, 750 k, 1%, 0.063 W, 0402	0402
59	R16	0	562k	CRCW0402562KFKED	Vishay-Dale	RES, 562 k, 1%, 0.063 W, 0402	0402
60	R17	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
61	R20	0	37.4k	CRCW040237K4FKED	Vishay-Dale	RES, 37.4 k, 1%, 0.063 W, 0402	0402
62	U1	0		UCC27511DBVR	Texas Instruments	Single-Channel High-Speed Low-Side Gate Driver (with 4-A Peak Source and 8-A Peak Sink), DBV0006A	DBV0006A
63	U2	0		UCC24636DBVR	Texas Instruments	SYNCHRONOUS RECTIFIER CONTROLLER WITH LOW POWER STANDBY, DBV0006A	DBV0006A

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