

Filename: PMP30267RevC - BoM.xls
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PMP30267 REV C Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C6, C7, C12, C13, C16, C22, C23, C27, C28, C37, C38, C44, C45	14	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0603	0603
2	C2	1	270pF	GRM188R71H271KA01D	MuRata	CAP, CERM, 270 pF, 50 V,+/- 10%, X7R, 0603	0603
3	C3	1	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 μF, 100 V, +/- 10%, X7R, 0603	0603
4	C4, C26	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 μF, 25 V,+/- 10%, X7R, 0603, CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0603	0603
5	C5, C8, C9, C10, C11, C20, C21	7	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 μF, 50 V, +/- 10%, X7R, 1210	1210
6	C14, C32, C33	3	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
7	C15	1	2.2uF	GRM31CR71H225KA88L	MuRata	CAP, CERM, 2.2 μF, 50 V, +/- 10%, X7R, 1206	1206
8	C17	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 μF, 16 V, +/- 10%, X7R, 0805	0805
9	C18	1	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47 μF, 25 V,+/- 10%, X7R, 0603	0603
10	C19	1	0.068uF	GRM188R71H683KA93D	MuRata	CAP, CERM, 0.068 μF, 50 V,+/- 10%, X7R, 0603	0603
11	C24	1	1uF	GRM188R61H105KAALD	MuRata	CAP, CERM, 1 μF, 50 V,+/- 10%, X5R, 0603	0603
12	C25	1	4.7uF	GRM188Z71A475ME15D	MuRata	CAP, CERM, 4.7 μF, 10 V,+/- 20%, X7R, 0603	0603
13	C29, C30, C31	3	47uF	GRM32ER71A476ME15L	MuRata	CAP, CERM, 47 μF, 10 V,+/- 20%, X7R, 1210	1210
14	C34, C35, C36	3	22uF	GRM32ER71C226ME18L	MuRata	CAP, CERM, 22 μF, 16 V, +/- 20%, X7R, 1210	1210
15	C39, C40	2	3300pF	GRM188R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V,+/- 10%, X7R, 0603	0603
16	C41	1	180pF	GRM1885C1H181JA01D	MuRata	CAP, CERM, 180 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
17	C42	1	56pF	GRM1885C1H560JA01D	MuRata	CAP, CERM, 56 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
18	C43	1	0.047uF	GRM188R71H473KA61D	MuRata	CAP, CERM, 0.047 μF, 50 V,+/- 10%, X7R, 0603	0603
19	C46, C47, C48	3	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 μF, 50 V,+/- 10%, X7R, 0603, CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603, CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
20	D1	1	16V	BZX84C16LT1G	ON Semiconductor	Diode, Zener, 16 V, 225 mW, SOT-23	SOT-23
21	D2	1	36V	SMBJ36CA	Vishay-Semiconductor	Diode, TVS, Bi, 36 V, SMB	SMB
22	D3	1	75V	BAV99-7-F	Diodes Inc.	Diode, Switching, 75 V, 0.3 A, SOT-23	SOT-23
23	D4	1	60V	SS5P6-M3/86A	Vishay-Semiconductor	Diode, Schottky, 60 V, 5 A, TO-277A	TO-277A
24	D5, D8, D9	3	60V	PMEG6010CEH,115	Nexperia	Diode, Schottky, 60 V, 1 A, SOD-123F	SOD-123F
25	D6, D7	2	60V	MSS1P6-M3/89A	Vishay-Siliconix	Diode, Schottky, 60 V, 1 A, MicroSMP	MicroSMP
26	FID1, FID2, FID3, FID4	4		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
27	J1, J2, J6, J7	4		691411510002	Würth Elektronik	Receptacle, 5.08mm, 2x1, INOX Steel, R/A, TH	Receptacle, 5.08mm, 2x1, R/A, TH
28	J3, J8, J9	3		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
29	J4, J5	2		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
30	L1, L2, L3	3	3.3uH	VCHA054T-3R3MS6	Cyntec	Inductor, 3.3 μH, 8.8 A, 0.028 ohm, AEC-Q200 Grade 0, SMD	5.4x5.2x3.8mm

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31	L4	1	22uH	VCHA054T-220MS6	Cyntec	Inductor, 22 µH, 3.4 A, 0.158 ohm, AEC-Q200 Grade 0, SMD	5.4x5.2x3.8mm
32	Q1	1	-60V	SQJ459EP-T1_GE3	Vishay-Siliconix	MOSFET, P-CH, -60 V, -52 A, AEC-Q101, PowerPAK_SO-8L	PowerPAK_SO-8L
33	Q2	1	60V	SQJA62EP	Vishay-Siliconix	MOSFET, N-CH, 60 V, 75 A, AEC-Q101, PowerPAK_SO-8L	PowerPAK_SO-8L
34	Q3	1	60V	SQJ158EP	Vishay-Siliconix	MOSFET, N-CH, 60 V, 23 A, AEC-Q101, PowerPAK_SO-8L	PowerPAK_SO-8L
35	Q4, Q5	2	60V	SQJ260EP	Vishay-Siliconix	MOSFET, 2-CH, N-CH, 60 V, 20 A, AEC-Q101, PowerPAK SO-8 Dual Asymmetric	PowerPAK SO-8 Dual Asymmetric
36	R1, R13	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
37	R2	1	8.2	CRCW12068R20JNEA	Vishay-Dale	RES, 8.2, 5%, 0.25 W, 1206	1206
38	R3	1	3.32	CRCW06033R32FKEA	Vishay-Dale	RES, 3.32, 1%, 0.1 W, 0603	0603
39	R4	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
40	R5	1	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75, 1%, 0.1 W, 0603	0603
41	R6	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
42	R7	1	0.008	PRL1632-R008-F-T1	Susumu Co Ltd	RES, 0.008, 1%, 1 W, 0612	0612
43	R8, R9, R10, R12, R17, R18, R19, R20, R21, R22, R23, R26, R29, R34, R39, R40, R41, R44, R45, R46	20	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
44	R11	1	53.6k	CRCW060353K6FKEA	Vishay-Dale	RES, 53.6 k, 1%, 0.1 W, 0603	0603
45	R14	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
46	R15, R16	2	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
47	R24	1	0.005	PRL1632-R005-F-T1	Susumu Co Ltd	RES, 0.005, 1%, 1 W, 0612	0612
48	R25	1	0.015	PRL1632-R015-F-T1	Susumu Co Ltd	RES, 0.015, 1%, 1 W, 0612	0612
49	R27, R28, R35, R37	4	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
50	R30, R31	2	20	CRCW080520R0JNEA	Vishay-Dale	RES, 20, 5%, 0.125 W, 0805	0805
51	R32	1	2.55k	CRCW06032K55FKEA	Vishay-Dale	RES, 2.55 k, 1%, 0.1 W, 0603	0603
52	R33	1	8.06k	CRCW06038K06FKEA	Vishay-Dale	RES, 8.06 k, 1%, 0.1 W, 0603	0603
53	R36	1	17.4k	CRCW060317K4FKEA	Vishay-Dale	RES, 17.4 k, 1%, 0.1 W, 0603	0603
54	R38	1	52.3k	CRCW060352K3FKEA	Vishay-Dale	RES, 52.3 k, 1%, 0.1 W, 0603	0603
55	R42, R43	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
56	TP1, TP3, TP6, TP7	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
57	TP2, TP4, TP5, TP8, TP9	5		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
58	U1	1		LM74700QDDCRQ1	Texas Instruments	Low Iq Always ON Smart Diode Controller, DDC0006A (SOT-23-T-6)	DDC0006A
59	U2	1		LM5150QRUMTQ1	Texas Instruments	Wide VIN Automotive Low IQ Boost Controller, RUM0016C (WQFN-16)	RUM0016C
60	U3	1		LM5140QRWGTQ1	Texas Instruments	Wide Input Range Dual Synchronous Buck Controller, RHA0040C	RHA0040C

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