

Variant: 001
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PMP21611 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		PMP21611	Any	Printed Circuit Board	
2	C1, C2	2	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
3	C8	1	0.1uF	GCM155R71A104KA55D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
4	C9	1	4700pF	06031C472KAT2A	AVX	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603	0603
5	C11, C19	2	2.2uF	C3216X7R1H225K160AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
6	C12, C13	2	10uF	GRM32ER7YA106KA12K	MuRata	CAP, CERM, 10 uF, 35 V, +/- 10%, X7R, 1210	1210
7	C14, C15	2	0.047uF	C1608X7R1H473K080AA	TDK	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, 0603	0603
8	C16	1	0.1uF	C0805C104K5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0805	0805
9	C17, C18	2	10uF	CL32B106KBJNNWE	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
10	C20, C35, C45	3	0.47uF	GCM188R71C474KA55D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
11	C21	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
12	C22, C23, C25	3	22uF	GRM32ER71A226ME20L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, 1210	1210
13	C24	1	0.047uF	08055C473JAT2A	AVX	CAP, CERM, 0.047 uF, 50 V, +/- 5%, X7R, 0805	0805
14	C26, C27, C32, C33, C36, C37, C42, C43	8	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
15	C28, C38	2	0.047uF	GRM155R71A473KA01D	MuRata	CAP, CERM, 0.047 uF, 10 V, +/- 10%, X7R, 0402	0402
16	C29, C34, C39, C44	4	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	0603
17	C30, C40	2	820pF	GRM155R71H821KA01D	MuRata	CAP, CERM, 820 pF, 50 V, +/- 10%, X7R, 0402	0402
18	C31	1	10pF	885012005055	Würth Elektronik	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NPO, 0402	0402
19	C41	1	33pF	885012005043	Würth Elektronik	CAP, CERM, 33 pF, 25 V, +/- 5%, COG/NPO, 0402	0402
20	CF1, CF2	2	4.7uF	CGA6P3X7R1H475M250AB	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210
21	D1	1	28V	SMBJ28CA-13-F	Diodes Inc.	Diode, TVS, Bi, 28 V, 45.4 Vc, SMB	SMB
22	FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
23	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
24	H5, H6, H7, H8	4		1902B	Keystone		Standoff
25	J1	1		6091	Keystone	Standard Banana Jack, Insulated, Red	6091
26	J2	1		6092	Keystone	Standard Banana Jack, Insulated, Black	6092
27	J3, J5, J7	3		111-0702-001	Cinch Connectivity	Binding Post, Red, TH	Receptacle, 1x1 Position, Dia 10.74mm, Red, TH
28	J4, J6, J8	3		111-0703-001	Cinch Connectivity	Binding Post, Black, TH	Receptacle, 1x1 Position, Dia 10.74mm, Black, TH
29	L1, L2	2	2.2uH	XAL4020-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 uH, 5.5 A, 0.04 ohm, SMD	4x2.1x4mm
30	L3	1		DLW5BTM102TQ2K	MuRata	Coupled inductor, 2.5 A, 0.034 ohm, SMD	SMD, 5x5mm
31	L4, L6	2	600 ohm	7427920415	Würth Elektronik	Ferrite Bead, 600 ohm @ 100 MHz, 0.5 A, 0805	0805
32	L5, L7	2	1uH	1239AS-H-1R0M=P2	MuRata Toko	Inductor, Shielded, Ferrite, 1 uH, 3 A, 0.045 ohm, SMD	2.5x1.2x2mm
33	Q1	1	40V	SQJ422EP-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 40 V, 75 A, PowerPAK_SO-8L	PowerPAK_SO-8L
34	R1, R2	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
35	R3	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
36	R4, R7	2	7.50	CRCW04027R50FKED	Vishay-Dale	RES, 7.50, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
37	R5	1	806k	CRCW0402806KFKEA	Vishay-Dale	RES, 806 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
38	R6, R8, R9	3	180k	RC0402FR-07180KL	Yageo America	RES, 180 k, 1%, 0.063 W, 0402	0402
39	R10, R12	2	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
40	R13, R14	2	47.5	CRCW040247R5FKED	Vishay-Dale	RES, 47.5, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
41	U1	1		LM74700QDBVTQ1	Texas Instruments	Low Iq Always ON Smart Diode Controller, DBV0006A (SOT-23-6)	DBV0006A
42	U2	1		LM53635LQRNLRQ1	Texas Instruments	3.5A, 36 V Synchronous, 2.1MHz, Automotive Step Down DC-DC Converter, RNL0022A (VQFN-HR-22)	RNL0022A
43	U3, U4	2		TPS62067QDSGRQ1	Texas Instruments	3MHz, 2A Automotive Step-Down Converter in 2x2 SON Package, DSG0008A (WSON-8)	DSG0008A
44	C46	0	820pF	C0603C821K5RACTU	Kemet	CAP, CERM, 820 pF, 50 V, +/- 10%, X7R, 0603	0603
45	R11	0	7.5	CRCW06037R50JNEA	Vishay-Dale	RES, 7.5, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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