

Variant: 001  
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PMP41100 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		PMP41100	Any	Printed Circuit Board	
2	C1, C2, C3, C4	4	0.01uF	C0402C103J5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	0402
3	C5	1	4.7uF	GRM21BR61H475KE51L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, 0805	0805
4	C6, C8	2	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
5	C7	1	10uF	CL31B106KBHNNNE	Samsung	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1206	1206
6	C9, C10	2	10uF	CL05A106MP5NUNC	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	0402
7	C11, C12	2	330pF	CGA1A2X7R1H331K030BA	TDK	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0201	0201
8	C13, C14	2	0.47uF	C0603C474K4RACTU	Kemet	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, 0603	0603
9	C15, C16, C17, C18, C19, C22	6	0.1uF	HMK107B7104KAHT	Taiyo Yuden	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
10	C20, C21	2	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
11	C23, C26	2	4.7uF	CGA4J1X7R1E475K125AE	TDK Corporation	Cap Ceramic 4.7uF 25V X7R 10% Pad SMD 0805 +125°C Automotive T/R	0805
12	C24	1	100pF	GCM1885C2A101JA16D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0603	0603
13	C25	1	1uF	08051C105K4Z2A	AVX	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
14	C27	1	47uF	EEHZA1V470P	Panasonic	CAP, Polymer Hybrid, 47 uF, 35 V, +/- 20%, 60 ohm, 6.3x5.8 SMD	6.3x5.8
15	C28, C30, C34, C35	4		C2012X7R1H475K125AC	TDK	4.7uF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	0805
16	C29, C36	2	47uF	UCM1H470MCL1GS	Nichicon	CAP, AL, 47 uF, 50 V, +/- 20%, SMD	D6.3xL5.8mm
17	C31, C32	2	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
18	C33	1	68uF	EEH-ZC1V680XP	Panasonic	CAP, Aluminum Polymer, 68 uF, 35 V, +/- 20%, 0.035 ohm, AEC-Q200 Grade 1, D6.3xL7.7mm SMD	D6.3xL7.7mm
19	D1, D2	2		V1FM10-M3/H	Vishay	Diode Schottky 1A Surface Mount DO-219AB (SMF)	DO-219AB
20	J1	1		DX07S024JJ2R1300	JAE Electronics	Receptacle, USB 3.1 Type C, R/A, Gold, SMT	Receptacle, USB 3.1 Type C, R/A, SMT
21	J2	1		1725669	Phoenix Contact	Terminal Block, 3x1, 2.54 mm, TH	Terminal Block, 3x1, 2.54 mm, TH
22	L1	1	21 ohm	FBMJ2125HM210NT	Taiyo Yuden	Ferrite Bead, 21 ohm @ 100 MHz, 6 A, 0805	0805
23	L2	1	8.2uH	PCMB065T-8R2MS	Cyntech	Cyntech, 8.2uH, 5.3A, 45mOhm	
24	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
25	Q1, Q2, Q3, Q4	4	45V	SiSS50DN	Vishay-Siliconix	MOSFET, N-CH, 45 V, 4mR, PowerPAK 1212	PowerPAK 1212
26	R1, R7	2	198k	RT0603BRD07198KL	Yageo America	RES, 198 k, 0.1%, 0.1 W, 0603	0603
27	R2, R5	2	2.20k	RG1608P-222-B-T5	Susumu Co Ltd	RES, 2.20 k, 0.1%, 0.1 W, 0603	0603
28	R3	1	162k	RT0603BRD07162KL	Yageo America	RES, 162 k, 0.1%, 0.1 W, 0603	0603
29	R4	1	191k	RT0603DRE07191KL	Yageo America	RES, 191 k, 0.5%, 0.1 W, 0603	0603
30	R6	1	37.9k	RT0603DRE07379KL	Yageo America	RES, 37.9 k, 0.5%, 0.1 W, 0603	0603
31	R8	1	9.42k	RT0603BRD07942L	Yageo America	RES, 9.42 k, 0.1%, 0.1 W, 0603	0603
32	R9	1	1.00k	RT0603BRD071KL	Yageo America	RES, 1,00 k, 0.1%, 0.1 W, 0603	0603
33	R12, R13, R14, R15, R16, R17	6	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
34	R18, R19	2	0.005	WSLP08055L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.5 W, 0805	0805
35	R20, R21, R23, R24	4	10	CRCW060310R0FKEB	Vishay	RES Thick Film, 10Ω, 1%, 0.1W, 100ppm/°C, 0603	0603
36	R22, R25, R28, R29	4	0	CRCW06030000Z0EA	Vishay	Thick Film Resistors - SMD 1/10watt ZEROhm Jumper	0603
37	R26	1	5.23k	RC0603FR-075K23L	Yageo	RES, 5.23 k, 1%, 0.1 W, 0603	0603
38	R27	1	30.1k	RC0603FR-0730K1L	Yageo	RES, 30.1 k, 1%, 0.1 W, 0603	0603
39	R30	1	1.00Meg	CRCW08051M00FKEAC	Vishay / Dale	Thick Film Resistors - SMD 1/8Watt 1Mohms 1% Commercial Use	0805
40	R31	1	383k	RT0603DRE07383KL	Yageo America	RES, 383 k, 0.5%, 0.1 W, 0603	0603
41	R32	1	69.8k	RT0603DRE07698KL	Yageo America	RES, 69.8 k, 0.5%, 0.1 W, 0603	0603
42	R33	1	1.1	CRCW06031R10JNEA	Vishay-Dale	RES, 1.1, 5%, 0.1 W, 0603	0603
43	R34	1	249k	ERJ-PB6B2493V	Panasonic	Thick Film Resistors - SMD 0805 Anti-Surge Res. 0.1%, 249Kohm	0805
44	R35	1	12.7k	RT0603BRD0712K7L	Yageo America	RES, 12.7 k, 0.1%, 0.1 W, 0603	0603
45	R36, R37, R38, R39	4	10.5k	RC0402FR-0710K5L	Yageo America	RES, 10.5 k, 1%, 0.063 W, 0402	0402
46	R40	1	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
47	R41	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	0603
48	R44	1	6.65k	RT0603BRD076K65L	Yageo America	RES, 6.65 k, 0.1%, 0.1 W, 0603	0603
49	R45	1	56.2k	RG1608P-5622-B-T5	Susumu Co Ltd	RES, 56.2 k, 0.1%, 0.1 W, 0603	0603
50	U1	1		TVS2200DRVVR	Texas Instruments	22-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
51	U2	1		TPS25730DRJKR	Texas Instruments	USB Type-C and USB PD Controller with Integrated Power Switches Optimized for Power Applications	WQFN38
52	U3	1		BQ25756ERRVT	Texas Instruments	BQ25756ERRVT	VQFN36
53	R10, R11	0	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
54	R42, R43	0	2.2	CRCW04022R20JNED	Vishay-Dale	RES, 2.2, 5%, 0.063 W, 0402	0402

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