

Variant: 001
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PMP23456 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		PMP23456	Any	Printed Circuit Board	
2	C1	1	4.7uF	GRM155R61E475ME15	MuRata	CAP, CERM, 4.7 uF, 25 V, +/- 20%, X5R, 0402	0402
3	C2, C3	2	330pF	C0603X7R1E331K030BA	TDK	CAP, CERM, 330 pF, 25 V, +/- 10%, X7R, 0201	0201
4	C4, C5, C6	3	10uF	CL05A106MP5NUNC	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	0402
5	C7, C8	2	0.01uF	C0402C103J5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	0402
6	C9	1	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0603	0603
7	C10	1	1uF	CGA3E1X7R1E105K080AC	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
8	C11, C12, C13, C16	4	10uF	GRM21BZ71E106KE15L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 0805	0805
9	C14	1	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
10	C15	1	4.7uF	GRM188Z71C475KE21D	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0603	0603
11	C18	1	22uF	GRT21BR61E226ME13L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 20%, X5R, AEC-Q200 Grade 3, 0805	0805
12	C19	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
13	D1, D2	2	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
14	J1	1		USB4125-GF-A-0190	GCT	24 (6+18 Dummy) Position USB-C (USB TYPE-C) USB 2.0 Receptacle Connector	CONN_USB
15	J2	1		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
16	J3	1		ED120/3DS	On-Shore Technology	Terminal Block, 5.08 mm, 3x1, Brass, TH	3x1 5.08 mm Terminal Block
17	J4	1		22/05/3041	Molex	Header (friction lock), 100mil, 4x1, R/A, TH	4x1 R/A Header
18	J5	1		M22-2510605	Harwin	Header, 2mm, 6x1, Gold, TH	Header, 2mm, 6x1, TH
19	JP1, JP2, JP3, JP5, JP6, JP8	6		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
20	L1	1	1uH	SRP3212-1R0M	Bourns	Inductor Power Shielded Wirewound 1uH 20% 100KHz 5Q-Factor Metal Alloy Powder 5.5A 0.032Ohm DCR 1210 T/R	1210
21	Q1	1	30V	CSD87501L	Texas Instruments	MOSFET, 2-CH, N-CH, 30 V, A, YJG0010A (PICOSTAR-10)	YJG0010A
22	R1, R18, R19, R24, R29, R30	6	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
23	R2, R3	2	3.3k	CRCW06033K30JNEA	Vishay-Dale	RES, 3.3 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
24	R4, R5, R6, R7	4	100k	CPF0603B100KE	TE Connectivity	RES, 100 k, 0.1%, 0.063 W, 0603	0603
25	R8	1	1.15k	CRCW06031K15FKEA	Vishay-Dale	RES, 1.15 k, 1%, 0.1 W, 0603	0603
26	R9, R11	2	4.99k	RT0603BRD074K99L	Yageo America	RES, 4.99 k, 0.1%, 0.1 W, 0603	0603
27	R10	1	23.2k	RT0603BRD0723K2L	Yageo America	RES, 23.2 k, 0.1%, 0.1 W, 0603	0603
28	R12, R13, R14, R16, R17	5	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R15	1	820	RC0603FR-07820RL	Yageo	RES, 820, 1%, 0.1 W, 0603	0603
30	R20, R21	2				Chip Resistor, 10 KOhm, +/- 1%, 01 W, -55 to 155 degC, 0603 (1608 Metric)	
31	R22, R23	2	2.21k	CRCW04022K21FKED	Vishay-Dale	RES, 2.21 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R25	1	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
33	R26	1	5.23k	CRCW04025K23FKED	Vishay-Dale	RES, 5.23 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R27	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R28	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R31	1	100	ERJ-8ENF1000V	Panasonic	RES, 100, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
37	S1	1		KSR221GLFS	C&K Components	Switch, Normally open, 2.3N force, 200k operations, SMD	KSR
38	TP1, TP9, TP10	3		5128	Keystone	Test Point, Multipurpose, Grey, TH	Grey Multipurpose Testpoint
39	TP2	1		5126	Keystone Electronics	Test Point, Multipurpose, Green, TH	Green Multipurpose Testpoint
40	TP3	1		5004	Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
41	TP4, TP7	2		5122	Keystone	Test Point, Compact, Blue, TH	Blue Compact Testpoint
42	TP5, TP6	2		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
43	TP8	1		5129	Keystone Electronics	Test Point, Multipurpose, Purple, TH	Purple Multipurpose Testpoint
44	U1	1		TPS25730SRSMR	Texas Instruments	USB Type-C and USB PD Controller with Integrated Power Switches Optimized for Power Applications	VQFN32
45	U2	1		BQ25638YBGR	Texas Instruments	I2C Controlled, 5-A, Maximum 18-V Input, Charger with NVDC Power Path Management and USB OTG Boost Output	DSBGA30
46	C17	0	22uF	GRT21BR61E226ME13L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 20%, X5R, AEC-Q200 Grade 3, 0805	0805

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