

Variant: 001
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PMP41068 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C19	2	330uF	EEE-FT1H331AP	Panasonic	CAP, AL, 330 uF, 50 V, +/- 20%, 0.12 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G
2	C2, C3, C4, C34, C35, C36, C37	7	2.2uF	CGA5L3X7S2A225K160AB	TDK	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1206	1206
3	C5, C27, C28	3	0.1uF	GCJ188R72A104KA01D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
4	C6, C8, C10, C21, C29	5	1uF	GCM188R71E105KA64D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C7, C9, C11, C12, C20, C25, C26, C31, C33	9	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
6	C13	1	470pF	GRT1555C1H471JA02D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G, AEC-Q200 Grade 1, 0402	0402
7	C14	1	1uF	GCJ31CR72A105KA01K	MuRata	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
8	C15	1	0.22uF	HMK107C7224MAHTE	Taiyo Yuden	CAP, CERM, 0.22 uF, 100 V, +/- 20%, X7S, AEC-Q200 Grade 1, 0603	0603
9	C16, C17, C24	3	10pF	GCM1555C1H100JA16D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
10	C18	1	560pF	GRM1555C1H561JA01D	MuRata	CAP, CERM, 560 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
11	C22	1	1000pF	GRM21AR72E102KW01D	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	0805
12	C23	1	0.01uF	CGA4J3C0G2E103J125AA	TDK	CAP, CERM, 0.01 uF, 250 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0805	0805
13	C30, C32	2	4.7uF	CGA4J1X7R1E475K125AC	TDK	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
14	D1, D2, D4, D5	4	40V	SDM03U40-7	Diodes Inc.	Diode, Schottky, 40 V, 0.03 A, SOD-523	SOD-523
15	D3	1	1000V	SM4007PL-TP	Micro Commercial Components	Diode, Standard Recovery Rectifier, 1000 V, 1 A, SOD-123FL	SOD-123FL
16	J1, J4	2		PBC06SAAN	Sullins Connector Solutions	Header, 2.54mm, 6x1, Gold, TH	Header, 2.54mm, 6x1, TH
17	J2, J3	2		691216510003S	Würth Electronics		CONN_TERM_BLOC K3
18	L1	1	10uH	PA4344.103NLT	Pulse Engineering	Inductor, Shielded, 10 uH, 16.5 A, 0.013 ohm, AEC-Q200 Grade 1, SMD	17.7x17.2mm
19	L2	1	3.3uH	XGL3530-332MEC	Coilcraft	Power Inductor, shielded, composite, 20% tol, SMT, RoHS, halogen-free USD 0.580	SMT_IND_3MM2_3M M5
20	MP1	1		960-21-12-S-AB-0	Wakefield-Vette	HEATSINK 21X12MM SIDE PLASTIC PUSH PIN	HEATSINK_BGA_21 MM_12MM
21	Q1	1	30V	CSD17581Q5A	Texas Instruments	MOSFET, N-CH, 30 V, 24 A, DQJ0008A (VSONP-8)	DQJ0008A
22	R1, R2	2	4.7	CRCW04024R70JNED	Vishay-Dale	RES, 4.7, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
23	R3, R6, R7, R9, R14	5	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
24	R4, R10	2	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25	R5, R8	2	10.0	RMCF0402JT10R0	Stackpole Electronics Inc	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
26	R11	1	0	CRCW25120000Z0EGHP	Vishay-Dale	RES, 0, 5%, 1.5 W, AEC-Q200 Grade 0, 2512	2512
27	R12	1	3.3	CRCW08053R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
28	R13	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R15	1	619k	CRCW0402619KFKED	Vishay-Dale	RES, 619 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
30	R16	1	25.5k	CRCW040225K5FKED	Vishay-Dale	RES, 25.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
31	R17, R19	2	12.0k	CRCW040212K0FKED	Vishay-Dale	RES, 12.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R18	1	5.6k	CRCW04025K60JNED	Vishay-Dale	RES, 5.6 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
33	R20	1	84.5k	CRCW040284K5FKED	Vishay-Dale	RES, 84.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R21	1	22.1k	CRCW040222K1FKED	Vishay-Dale	RES, 22.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	TP1, TP2, TP3, TP4, TP5, TP6	6		5000	Keystone Electronics	Test Point, Miniature, Red, TH	Red Miniature Testpoint
36	U1	1		LMG2100R044	Texas Instruments	LMG2100R044	VQFN-FCRLF16
37	U2	1		ISO6720BDR	Texas Instruments		SOIC8
38	U3	1		SN74AC14	Texas Instruments	Hex Schmitt-Trigger Inverters, NS0014A, LARGE T&R	NS0014A
39	U4	1		TMCS1108A1BQDR	Texas Instruments	Basic Isolation Hall-Effect Current Sensor	SOIC8
40	U5	1		TLV7032QDGKRQ1	Texas Instruments	Small Size, Nanopower, Low-Voltage Comparators, DGK0008A (VSSOP-8)	DGK0008A
41	U6	1		TPS62921QDRLRQ1	Texas Instruments	3-V to 17-V, Synchronous Buck Converters in 1.6 mm x 2.1 mm SOT583 Package	FCSOT8

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