

Variant: 001
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PMP31291 REV RevA Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	39uF	63SXV39M	Panasonic	CAP, Aluminum Polymer, 39 uF, 63 V, +/- 20%, 0.025 ohm, 8.0x11.9mm SMD	8.0x11.9mm
2	C2, C3, C5, C6	4	4.7uF	CL32Y475KCIVPNE		CAP, CERM, 4.7 uF, 100 V,+/- 10%, X7S, AEC-Q200 Grade 1, 1210	
3	C4	1	0.1uF	GCJ188R72A104KA01D	MuRata	CAP, CERM, 0.1 uF, 100 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
4	C8, C12, C16, C18	4	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
5	C9	1	4.7uF	GRM188Z71A475ME15D	MuRata	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X7R, 0603	0603
6	C11	1	270uF	16SVPG270MX	Panasonic	CAP, Aluminum Polymer, 270 uF, 16 V, +/- 20%, 10 mohm, 6.3x7.9 SMD	
7	C13, C14	2	10uF	CL31B106KAHV/PNE		CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
8	C17	1	470pF	GCM155R71H471KA37D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
9	C19	1	0.047uF	GCM188R71E473KA37D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
10	C20	1	1000pF	CGA2B2C0G1H102J050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
11	C21	1	2200pF	CL05B222JB5NNNC	Samsung Electro-Mechanics	CAP, CERM, 2200 pF, 50 V, +/- 5%, X7R, 0402	0402
12	D1	1	100V	BAT46WJ,115	Nexperia	Diode, Schottky, 100 V, 0.25 A, SOD-323F	SOD-323F
13	D2	1	30V	BAT54T1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
14	J1	1		TSW-103-08-G-S	Samtec	Header, 2.54mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
15	J2	1		961102-6804-AR	3M	Header, 2.54mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
16	L1	1	10uH	MSS1210H-103MED	Coilcraft	Shielded Power Inductor 10uH ±20% 0.013 Ohms 9.1A	SMT2_12MM0_12MM0
17	Q1	1	30V	CSD87502Q2	Texas Instruments	MOSFET, 2-CH, N-CH, 30 V, 5 A, DQK0006B (WSON-6)	DQK0006B
18	Q2	1	100 V	BSS63	Fairchild Semiconductor	Transistor, PNP, 100 V, 0.2 A, SOT-23	SOT-23
19	R1	1	5m			Res 0.005 Ohm	
20	R3, R4, R10	3	0	MCR01MZPJ000	Rohm	RES, 0, 5%, 0.063 W, 0402	0402
21	R8, R18	2	49.9	RC0402FR-0749R9L	Yageo America	RES, 49.9, 1%, 0.063 W, 0402	0402
22	R9	1	3.92k	CRCW04023K92FKED	Vishay-Dale	RES, 3.92 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
23	R11, R17, R20, R24	4	100k	RC1005F104CS	Samsung Electro-Mechanics	RES, 100 k, 1%, 0.063 W, 0402	0402
24	R12	1	29.4k	CRCW040229K4FKED	Vishay-Dale	RES, 29.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25	R13	1	66.5k	CRCW040266K5FKED	Vishay-Dale	RES, 66.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
26	R14	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
27	R15	1	26.7k	CRCW040226K7FKED	Vishay-Dale	RES, 26.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
28	R16	1	13.0k	CRCW040213K0FKED	Vishay-Dale	RES, 13.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
29	R19	1	1.20k	RC0603FR-071K2L	Yageo	RES, 1.20 k, 1%, 0.1 W, 0603	0603
30	R21, R23, R25	3	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
31	R22	1	10.0k	M55342K12B10E0T	TT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	0603
32	TP1, TP4	2		5000	Keystone Electronics	Test Point, Miniature, Red, TH	Red Miniature Testpoint
33	TP2, TP3	2		5001	Keystone Electronics	Test Point, Miniature, Black, TH	Black Miniature Testpoint
34	TP5, TP6, TP7, TP8	4		5004	Keystone Electronics	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
35	U1	1		LM70880RRXRQ1	Texas Instruments	80-V, 8-A Synchronous DC/DC Buck Converter With Ultra-Low IQ, VQFN29	VQFN29
36	VIN1, -VOUT1	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
37	C7	0	4.7uF	CL32Y475KCIVPNE		CAP, CERM, 4.7 uF, 100 V,+/- 10%, X7S, AEC-Q200 Grade 1, 1210	
38	C10	0	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
39	C15	0	10uF	CL31B106KAHV/PNE		CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
40	R2, R5	0	0	MCR01MZPJ000	Rohm	RES, 0, 5%, 0.063 W, 0402	0402
41	R6	0	2	CRCW06032R00FKEA	Vishay-Dale	RES, 2.00, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
42	R7	0	100k	RC1005F104CS	Samsung Electro-Mechanics	RES, 100 k, 1%, 0.063 W, 0402	0402

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