

Variant: 001
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PMP30691 REV D Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	47uF	EEE-FK1H470P	Panasonic	CAP, AL, 47 uF, 50 V, +/- 20%, 0.68 ohm, AEC-Q200 Grade 2, SMD	SMT Radial E
2	C2, C6	2	0.1uF	C0805C104K1RACTU	Kemet	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
3	C3, C4, C5, C8	4	10uF	UMJ325KB7106KMHT	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
4	C7	1	4700pF	C0603X472K5RACTU	Kemet	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603
5	C9, C24	2	47uF	EEE-FK1E470P	Panasonic	CAP, AL, 47 uF, 25 V, +/- 20%, 0.36 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D
6	C10, C14, C20, C25, C26	5	10uF	GRM21BZ71E106KE15L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 0805	0805
7	C11	1	1uF	C0805C105K4RACTU	Kemet	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0805	0805
8	C12	1	0.01uF	GRM155R71C103KA01D	MuRata	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402	0402
9	C13	1	2200pF	GRM188R71C222KA01D	MuRata	CAP, CERM, 2200 pF, 16 V, +/- 10%, X7R, 0603	0603
10	C15	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
11	C16	1	10pF	CGA3E2C0G1H100D080AA	TDK	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0603	0603
12	C17	1	0.22uF	GRM21BR71H224KA01L	MuRata	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0805	0805
13	C18, C19	2	330pF	C1210C331JGGACTU	Kemet	CAP, CERM, 330 pF, 2000 V, +/- 5%, COG/NP0, 1210	1210
14	C21, C27	2	0.1uF	GRM21BR71H104KA01L	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0805	0805
15	C23, C29	2	100pF	C0805C101J1RACTU	Kemet	CAP, CERM, 100 pF, 100 V, +/- 5%, X7R, 0805	0805
16	C30	1	1uF	C0805C105K5RACTU	Kemet	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
17	D1, D4, D6	3	30V	B0530WSQ-13-F	Diodes Inc.	Diode, Schottky, 30 V, 0.5 A, AEC-Q101, SOD-323	SOD-323
18	D2, D3	2	60V	NRVB460MFST3G	ON Semiconductor	Diode, Schottky, 60 V, 4 A, SO-8FL	SO-8FL
19	J1, J2, J3	3		TSW-106-07-G-S	Samtec	Header, 100mil, 6x1, Gold, TH	6x1 Header
20	L1	1	4.7uH	TFM252012ALMA4R7MTAA	TDK	Inductor, Film, 4.7 uH, 1.6 A, 0.2 ohm, AEC-Q200 Grade 0, SMD	2.5x2mm
21	Q2	1	40V	IPC100N04S51R9ATMA1	Infineon Technologies	MOSFET, N-CH, 40 V, 100 A, AEC-Q101, PG-TDSON-8	PG-TDSON-8
22	R1	1	0.015	LVK12R015DER	Ohmite	RES, 0.015, 0.5%, 0.5 W, 1206 sense	1206 sense
23	R2	1	365k	CRCW0402365KFKEA	Vishay-Dale	RES, 365 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
24	R3	1	1.50k	CRCW08051K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
25	R4	1	3.32	RT0603DRE073R32L	Yageo America	RES, 3.32, 0.5%, 0.1 W, 0603	0603
26	R5	1	158k	CRCW0402158KFKEA	Vishay-Dale	RES, 158 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
27	R6	1	20k	CRCW060320K0JNEA	Vishay-Dale	RES, 20 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
28	R7, R17	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R8	1	100	RR1220P-101-D	Susumu Co Ltd	RES, 100, 0.5%, 0.1 W, 0805	0805
30	R9	1	62.0k	RG1608P-623-B-T5	Susumu Co Ltd	RES, 62.0 k, 0.1%, 0.1 W, 0603	0603
31	R10	1	1.02k	RT0805BRD071K02L	Yageo America	RES, 1.02 k, 0.1%, 0.125 W, 0805	0805
32	R11	1	49.9	TNPW060349R9BEEA	Vishay-Dale	RES, 49.9, 0.1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
33	R12	1	137	RT0805BRD07137RL	Yageo America	RES, 137, 0.1%, 0.125 W, 0805	0805
34	R13	1	10.2k	CRCW060310K2FKEA	Vishay-Dale	RES, 10.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
35	R14, R15	2	6.8	CRCW08056R80JNEA	Vishay-Dale	RES, 6.8, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
36	R16	1	402	CRCW1206402RFKEA	Vishay-Dale	RES, 402, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
37	T1	1	2.7uH	WA8728-AL	Coilcraft	Transformer, 2.7 uH, SMD	15.24x12.7mm
38	TP1, TP4	2		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
39	TP2	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
40	TP3, TP5	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
41	U1	1		LM5155QDSSSTQ1	Texas Instruments	Automotive Grade 2.2-MHz Wide Input Non-synchronous Boost Controller, DSS0012C (WSON-12)	DSS0012C
42	D5	0	15V	MMSZ4702-HE3-08	Vishay-Semiconductor	Diode, Zener, 15 V, 500 mW, AEC-Q101, SOD-123	SOD-123

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