

Variant: 001
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PMP15027 REV E3 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		PMP15027	Any	Printed Circuit Board	
2	C1, C10	2	0.1uF	C2012X7R2A104K	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
3	C2	1	4.7uF	C3225X7S2A475K200AE	TDK	CAP, CERM, 4.7 µF, 100 V, +/- 10%, X7S, 1210	1210
4	C3, C4, C5, C6, C8, C9, C12, C13	8	10uF	CGA6P3X7S1H106K250AB	TDK	CAP, CERM, 10 µF, 50 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
5	C7	1	47uF	EEE-FK1H470XP	Panasonic	CAP, AL, 47 µF, 50 V, +/- 20%, 0.68 ohm, SMD	SMT Radial D8
6	C11, C19, C20	3	0.01uF	C1608X8R2A103K	TDK	CAP, CERM, 0.01 µF, 100 V, +/- 10%, X8R, 0603	0603
7	C14	1	0.1uF	C1210C104K5RACTU	Kemet	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 1210	1210
8	C15	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
9	C16, C17	2	1000pF	C1608C0G2A102J	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
10	C18	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
11	C21	1	2.2uF	C2012X7R1C225K	TDK	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X7R, 0805	0805
12	C22	1	10pF	C1608C0G1H100D	TDK	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
13	C23, C24, C25	3	0.1uF	C1608X8R1E104K	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X8R, 0603	0603
14	C26	1	0.022uF	GRM188R71C223KA01D	MuRata	CAP, CERM, 0.022 µF, 16 V, +/- 10%, X7R, 0603	0603
15	C27	1	0.18uF	GRM21BR71C184KA01L	MuRata	CAP, CERM, 0.18 µF, 16 V, +/- 10%, X7R, 0805	0805
16	C28	1	0.1uF	08055C104JAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 5%, X7R, 0805	0805
17	D1	1	100V	FSV8100V	Fairchild Semiconductor	Diode, Schottky, 100 V, 8 A, AEC-Q101, TO-277A	TO-277A
18	D2	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
19	J1	1		1727023	Phoenix Contact	Terminal Block Receptacle, 3x1, 3.81mm, R/A, TH	Term Block, 3 pos
20	L1	1	3.3uH	XAL6030-332MEB	Coilcraft	Inductor, Shielded, Composite, 3.3 µH, 9.8 A, 0.02 ohm, SMD	IND_6.4x3.1x6.6
21	L2, L3	2	10uH	XAL1010-103MEB	Coilcraft	Inductor, Shielded, Composite, 10 µH, 15.5 A, 0.01 ohm, SMD	Inductor, 11.3x10x10mm
22	L4	1		ACM7060-701-2PL-TL01	TDK Corporation	CMC 4A 2LN 700 OHM SMD	Horizontal, 4 PC Pad
23	L5	1		ACM1211-102-2PL-TL01	TDK	Coupled inductor, 6 A, 0.014 ohm, SMD	SMD, 12x11mm
24	LED+, LED-, PGND2, VIN	4		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
25	PGND1	1	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
26	Q1, Q2	2	100V	STL8N10LF3	STMicroelectronics	MOSFET, N-CH, 100 V, 20 A, AEC-Q101, 8-PowerVDFN	8-PowerVDFN
27	R2	1	0.05	LVK20R050DER	Ohmite	RES, 0.05, 0.5%, 0.75 W, 2010 sense	2010 sense
28	R3	1	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
29	R4	1	2.00	ERJ-14BQF2ROU	Panasonic	RES, 2.00, 1%, 0.5 W, AEC-Q200 Grade 0, 1210	1210
30	R5, R18, R19	3	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
31	R6	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
32	R7, R21	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
33	R8, R9	2	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
34	R10	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
35	R12, R15	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
36	R13	1	3.74k	CRCW06033K74FKEA	Vishay-Dale	RES, 3.74 k, 1%, 0.1 W, 0603	0603
37	R14	1	0.015	CSRN2010FK15L0	Stackpole Electronics Inc	RES, 0.015, 1%, 1 W, 2010	2010
38	R16, R17	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
39	R20	1	22.6k	CRCW060322K6FKEA	Vishay-Dale	RES, 22.6 k, 1%, 0.1 W, 0603	0603
40	R23	1	38.3k	CRCW060338K3FKEA	Vishay-Dale	RES, 38.3 k, 1%, 0.1 W, 0603	0603
41	TP1, TP2, TP3, TP4, TP5	5	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
42	U1	1		TPS92691QPWPRQ1	Texas Instruments	Multi-Topology LED Driver with Rail-to-Rail Current Sense Amplifier, PWP0016J	PWP0016J
43	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
44	R1	0	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206

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