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TID #: PMP15003



PMP15003 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		PMP15003	Any	Printed Circuit Board	
2	C3, C11	2	0.1uF	C3216X7R2A104K	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 1206	1206
3	C4, C25, C26, C28	4	0.1uF	C1608X7R1E104K	TDK	CAP, CERM, 0.1 μF, 25 V, +/- 10%, X7R, 0603	0603
4	C5, C6	2	0.1uF	C2012X7R2A104K	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
5	C7, C8, C9, C10, C12, C13, C14, C15	8	4.7uF	C3225X7S2A475K200AE	TDK	CAP, CERM, 4.7 μF, 100 V, +/- 10%, X7S, 1210	1210
6	C16	1	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 μF, 100 V, +/- 10%, X7R, 0805	0805
7	C17	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
8	C18, C19	2	1000pF	C1608C0G2A102J	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
9	C20		0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0603	0603
10	C23	1	10pF	C1608C0G1H100D	TDK	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
11	C24	1	2.2uF	C2012X7R1C225K	TDK	CAP, CERM, 2.2 μF, 16 V, +/- 10%, X7R, 0805	0805
12	C27	1	3300pF	GRM188R71E332KA01D	MuRata	CAP, CERM, 3300 pF, 25 V, +/- 10%, X7R, 0603	0603
13	C29	1	0.033uF	GRM216R71E333KA01D	MuRata	CAP, CERM, 0.033 µF, 25 V, +/- 10%, X7R, 0805	0805
14	D1	1	100V	PDS3100Q-13	Diodes Inc.	Diode, Schottky, 100 V, 3 A, AEC-Q101, PowerDI5	PowerDI5
15	GND	1	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
16	J2	1		1727023	Phoenix Contact	Terminal Block Receptacle, 3x1, 3.81mm, R/A, TH	Term Block, 3 pos
17	J3	1		1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
18	J4	1		TSW-103-07-T-S	Samtec	Header, 2.54 mm, 3x1, Tin, TH	Header, 2.54 mm, 3x1, TH
19	L1	1	3.3uH	CLF7045T-3R3N	TDK	Inductor, Shielded, Ferrite, 3.3 μH, 5 A, 0.0213 ohm, SMD	Inductor, 6.2x4.5x5.9mm
20	L2	1	22uH	IHLP4040DZER220M8A	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 22 µH, 4.1 A, 0.0705 ohm, AEC-Q200 Grade 0, SMD	IHLP-4040DZ
21	L3, L4	2	160 ohm	HI1206T161R-10	Laird-Signal Integrity Products	Ferrite Bead, 160 ohm @ 100 MHz, 6 A, 1206	1206
22	L5, L6	2		74408941010	Wurth Electronics Inc	Inductor, Fixed, 1uH, 3A, 0.0295 ohm, SMD	1919 (4848 Metric)
23	NEG(-), POS (+)	2	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
24	Q3	1	100V	STL8N10LF3	STMicroelectronics	MOSFET, N-CH, 100 V, 20 A, AEC-Q101, 8-PowerVDFN	8-PowerVDFN
25	R1	1	0.1	MCR25JZHFLR100	Rohm	RES, 0.1, 1%, 0.5 W, 1210	1210
26	R3	1	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
27	R4	1	487k	CRCW0603487KFKEA	Vishay-Dale	RES, 487 k, 1%, 0.1 W, 0603	0603
28	R6, R14, R15	3	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
29	R7	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
30	R8	1	1.0k 100k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
31 32	R10, R16, R17 R11	3		CRCW0603100KFKEA	Vishay-Dale Vishay Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
33	R11	1	0.04 10.0k	WSL2010R0400FEA18 CRCW060310K0FKEA	Visnay Dale Vishay-Dale	RES, 0.04 ohm, 1%, 1W, 2010 RES, 10.0 k, 1%, 0.1 W, 0603	2010 (5025 Metric) 0603
33	R12	1	10.0k 102k	CRCW060310KUFKEA	Vishay-Dale Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603 RES, 102 k, 1%, 0.1 W, 0603	0603
35	R18	1	20.0k	CRCW0603102KFKEA	Vishay-Dale Vishay-Dale	RES, 102 k, 1%, 0.1 W, 0603	0603
36	R19	1	1.43k	CRCW06031K43FKEA	Vishay-Dale Vishay-Dale	RES, 1.43 k, 1%, 0.1 W, 0603	0603
37	R21	1	23.2k	CRCW060323K2FKEA	Vishay-Dale	RES, 23.2 k, 1%, 0.1 W, 0603	0603
38	SH-J4	1	20.2N	60900213521	Wurth Elektronik	Shunt, 2.54mm, Gold, Red	Shunt, 2.54mm, Red
39	TP2, TP4, TP6, TP7	4	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
40	U1	1		TPS92691QPWPRQ1	Texas Instruments	Multi-Topology LED Driver with Rail-to-Rail Current Sense Amplifier, PWP0016J	PWP0016J
41	C21, C22	0	0.01uF	C1608X8R2A103K	TDK	CAP, CERM, 0.01 µF, 100 V, +/- 10%, X8R, 0603	0603
42	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
43	R20	0	4.99Meg	CRCW06034M99FKEA	Vishay-Dale	RES, 4.99 M, 1%, 0.1 W, 0603	0603
44	TP3, TP5	0	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
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