

Variant: 001  
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PMP20084 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C2	1	220pF	GRM155R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	0402
2	C3	1	3300pF	GRM155R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0402	0402
3	C4	1	6800pF	GRM155R71H682KA88D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0402	0402
4	C8, C9	2	1uF	885012206052	Wurth Elektronik	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
5	C10, C11, C14	3	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
6	C12, C19, C20	3	22uF	C3225X7R1C226K250AC	TDK	CAP, CERM, 22 uF, 16 V, +/- 10%, X7R, 1210	1210
7	C16, C17	2	100uF	GRM32ER60J107ME20L	MuRata	CAP, CERM, 100 uF, 6.3 V, +/- 20%, X5R, 1210	1210
8	D1	1	30V	MBR0530T1G	ON Semiconductor	Diode, Schottky, 30 V, 0.5 A, SOD-123	SOD-123
9	J1, J2, J3	3		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
10	J5	1		AWHW-10G-0202-T	Assman WSW	Header(Shrouded), 2.54mm, 5x2, Gold, TH	Header, 2.54mm, 5x2, TH
11	L1	1	1uH	XAL7030-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 uH, 21.8 A, 0.00455 ohm, SMD	XAL7030
12	Q1	1		CSD87381P	Texas Instruments	Synchronous Buck NexFET Power Block II, MPC0005A	MPC0005A
13	R1, R3, R12, R19	4	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
14	R2	1	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
15	R4, R5, R6	3	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
16	R7	1	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, 0402	0402
17	R8	1	2.7k	CRCW04022K70JNED	Vishay-Dale	RES, 2.7 k, 5%, 0.063 W, 0402	0402
18	R9	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
19	R10	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
20	R11	1	169	CRCW0402169RFKED	Vishay-Dale	RES, 169, 1%, 0.063 W, 0402	0402
21	R13, R24, R25	3	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
22	R14, R15	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
23	R16, R17	2	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
24	R20	1	36.5k	CRCW040236K5FKED	Vishay-Dale	RES, 36.5 k, 1%, 0.063 W, 0402	0402
25	R21	1	6.8	CRCW04026R80JNED	Vishay-Dale	RES, 6.8, 5%, 0.063 W, 0402	0402
26	R22	1	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
27	U1	1		TPS40400RHLR	Texas Instruments	3.0-V TO 20-V PMBus SYNCHRONOUS BUCK CONTROLLER,	RHL0024A
28	C5, C6, C7	0	2700pF	GRM155R71H272KA01D	MuRata	CAP, CERM, 2700 pF, 50 V, +/- 10%, X7R, 0402	0402
29	R18	0	91k	CRCW040291K0JNED	Vishay-Dale	RES, 91 k, 5%, 0.063 W, 0402	0402