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PMP20172 REV E Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		PMP20172	Any	Printed Circuit Board	
2	C1, C11	2	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 µF, 25 V, +/- 20%, X5R, 0805	0805
3	C2, C7, C12, C17	4	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
4	C3, C13	2	0.1uF	GMK105BJ104KV-F	Taiyo Yuden	CAP, CERM, 0.1 µF, 35 V, +/- 10%, X5R, 0402	0402
5	C4, C14	2	0.47uF	GRM155R60J474KE19D	MuRata	CAP, CERM, 0.47 µF, 6.3 V, +/- 10%, X5R, 0402	0402
6	C5, C6, C15, C16	4	47uF	GRM31CR61E476ME44	MuRata	CAP, CERM, 47 µF, 25 V, +/- 20%, X5R, 1206_190	1206_190
7	C8, C18	2	68pF	GRM1555C1H680JA01D	MuRata	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
8	C9, C19	2	1000pF	GRM1555C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
9	C10, C20	2	0.015uF	GRM155R71C153JA01D	MuRata	CAP, CERM, 0.015 µF, 16 V, +/- 5%, X7R, 0402	0402
10	C21, C25, C26, C29, C33, C34	6	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
11	C22, C30	2	10uF	GRM21BR61C106KE15L	MuRata	CAP, CERM, 10 µF, 16 V, +/- 10%, X5R, 0805	0805
12	C23, C31	2	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	0402
13	C24, C32	2	0.27uF	GRM155R60J274KE01D	MuRata	CAP, CERM, 0.27 µF, 6.3 V, +/- 10%, X5R, 0402	0402
14	C27, C28, C35, C36	4	470pF	GRM155R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402	0402
15	C37, C38	2	1uF	GRM155R6YA105KE11D	MuRata	CAP, CERM, 1 µF, 35 V, +/- 10%, X5R, 0402	0402
16	D1, D2	2	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
17	D3, D4	2	70V	1PS79SB70,115	NXP Semiconductor	Diode, Schottky, 70 V, 0.07 A, SOD-523	SOD-523
18	J1, J2	2		12401548E4#2A	Amphenol Canada	Connector, Receptacle, USB Type C, R/A, TH	Connector, Receptacle, USB Type C, R/A, TH
19	L1, L2	2	10uH	SER8052-103MEB	Coilcraft	Inductor, Shielded, Ferrite, 10 µH, 3.1 A, 0.01433 ohm, SMD	8.8x8.5mm
20	Q1, Q2, Q3, Q4	4	30V	CSD17575Q3	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, DQG0008A	DQG0008A
21	Q5, Q6	2	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
22	R1, R8, R9, R16	4	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, 0402	0402
23	R2, R10	2	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, 0402	0402
24	R3, R11, R22, R33, R43, R44	6	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
25	R4, R12, R46, R48	4	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	0402
26	R5, R13, R23, R25, R34, R36	6	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
27	R6, R14	2	191	CRCW0402191RFKED	Vishay-Dale	RES, 191, 1%, 0.063 W, 0402	0402
28	R7, R15	2	2.67k	CRCW04022K67FKED	Vishay-Dale	RES, 2.67 k, 1%, 0.063 W, 0402	0402
29	R17, R28	2	0.005	WSL12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 1206	1206
30	R18, R29	2	220k	CRCW0402220KJNED	Vishay-Dale	RES, 220 k, 5%, 0.063 W, 0402	0402
31	R19, R20, R30, R31	4	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
32	R21, R32	2	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
33	R24, R35	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
34	R26, R37	2	60.4k	CRCW040260K4FKED	Vishay-Dale	RES, 60.4 k, 1%, 0.063 W, 0402	0402
35	R27, R38	2	120	RG2012P-121-B-T5	Susumu Co Ltd	RES, 120, 0.1%, 0.125 W, 0805	0805
36	R39, R40	2	20	CRCW040220R0JNED	Vishay-Dale	RES, 20, 5%, 0.063 W, 0402	0402
37	R45, R47	2	80.6k	CRCW040280K6FKED	Vishay-Dale	RES, 80.6 k, 1%, 0.063 W, 0402	0402
38	TP1, TP2, TP4, TP5, TP7	5	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
39	TP3, TP6, TP8	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
40	U1, U3	2		TPS40303DRCR	Texas Instruments	3-V to 20-V Input Synchronous Buck Controller, DRC0010J	DRC0010J
41	U2, U4	2	30V	CSD87333Q3D	Texas Instruments	MOSFET, N-CH, 30 V, 15 A, DPB0008A (VSON-8)	DPB0008A
42	U5, U6	2		TPS25740ARGER	Texas Instruments	USB Power Delivery (PD) Provider-Only and Type-C Downward Facing Port (DFP) Port Controller, RGE0024F	RGE0024F

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