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PMP20807 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		PMP20807	Any	Printed Circuit Board	
2	C1, C6, C7	3	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
3	C2	1	10uF	GRM219R61A106KE44D	MuRata	CAP, CERM, 10 µF, 10 V, +/- 10%, X5R, 0805	0805
4	C3, C10	2	1uF	GRM155R6YA105KE11D	MuRata	CAP, CERM, 1 µF, 35 V, +/- 10%, X5R, 0402	0402
5	C4	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	0402
6	C5	1	0.27uF	GRM155R60J274KE01D	MuRata	CAP, CERM, 0.27 µF, 6.3 V, +/- 10%, X5R, 0402	0402
7	C8, C9	2	470pF	GRM155R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402	0402
8	C11	1	0.47uF	GRM155R61E474KE01D	MuRata	CAP, CERM, 0.47 µF, 25 V, +/- 10%, X5R, 0402	0402
9	C12, C13, C15, C16	4	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
10	C14, C17	2	0.047uF	GRM188R71H473KA61D	MuRata	CAP, CERM, 0.047 µF, 50 V, +/- 10%, X7R, 0603	0603
11	C18, C19, C20, C21, C22	5	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 10%, X7R, 1210	1210
12	C24	1	0.1uF	0402YC104KAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
13	C26	1	4.7uF	GCM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
14	D1	1	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
15	GND	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
16	J1	1		632 723 300 011	Wurth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
17	L1	1	10uH	74439358100	Wurth Elektronik	Inductor, Shielded, Composite, 10 µH, 5.8 A, 0.022 ohm, SMD	8.8x8.3mm
18	Q1, Q2	2	30V	CSD17575Q3	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, DQG0008A	DQG0008A
19	R1	1	0.005	WSL12065L000FEA18	Vishay-Dale	RES, 0.005, 1%, 0.5 W, 1206	1206
20	R2, R11, R17	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
21	R3, R4, R5	3	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
22	R6	1	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
23	R7	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
24	R8	1	120	RG2012P-121-B-T5	Susumu Co Ltd	RES, 120, 0.1%, 0.125 W, 0805	0805
25	R9	1	2.43k	CRCW04022K43FKED	Vishay-Dale	RES, 2.43 k, 1%, 0.063 W, 0402	0402
26	R10	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
27	R12	1	3.0	CRCW04023R00JNED	Vishay-Dale	RES, 3.0, 5%, 0.063 W, 0402	0402
28	R13	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
29	R15	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
30	R16	1	12.1k	CRCW040212K1FKED	Vishay-Dale	RES, 12.1 k, 1%, 0.063 W, 0402	0402
31	R18	1	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
32	R19	1	100k	CRCW1206100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.25 W, 1206	1206
33	R20	1	221k	CRCW0402221KFKED	Vishay-Dale	RES, 221 k, 1%, 0.063 W, 0402	0402
34	TP1	1		5013	Keystone	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
35	U1	1		TPS25740ARGER	Texas Instruments	USB Power Delivery (PD) Provider-Only and Type-C Downward Facing Port (DFP) Port Controller, RGE0024F	RGE0024F
36	U2	1		LMS3635ARNLRQ1	Texas Instruments	3.5/5.5A Synchronous Buck Regulator for Automotive Applications, RNL0022A (VQFN-HR-22)	RNL0022A
37	VBUS, VIN, VOUT	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
38	C23	0	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 10%, X7R, 1210	1210
39	C25	0	20pF	GRM1555C1H200JA01D	MuRata	CAP, CERM, 20 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
40	R14	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402

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