

Variant: 001
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PMP41163 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C2, C19, C22	3	0.1uF	C3216X772W104M160AA	TDK	CAP, CERM, 0.1 uF, 450 V, +/- 20%, X7T, 1206	1206
2	C3	1	1000pF	GRM31BR72J102KW01L	MuRata	CAP, CERM, 1000 pF, 630 V, +/- 10%, X7R, 1206	1206
3	C5	1	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X5R, 0603	0603
4	C6	1	10uF	TMK212BBJ106KG-T	Taiyo Yuden	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	0805
5	C7	1	100nF	MX2104KQ3B30YB20S0R	Dongguan Chengxi	100nF, X cap, TH, 7.5mm*10mm,P*W	
6	C8, C9	2	47uF	KCXE2502G470MF	Yongming	Aluminum Electrolytic Capacitor, Radial, 47uF, 400V	
7	C10	1	1uF	GCM188R71E105KA64D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
8	C11	1	2.2uF	GRM155R61E225ME15D	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 20%, X5R, 0402	0402
9	C12	1	3300pF	GRM155R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0402	0402
10	C14, C23	2	0.015uF	GRM155R71E153KA61D	MuRata	CAP, CERM, 0.015 uF, 25 V, +/- 10%, X7R, 0402	0402
11	C15, C33	2	10uF	GRM188R61E106KA73D	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0603	0603
12	C16	1	330pF	GRM155R71H331KA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0402	0402
13	C17	1	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
14	C18	1	0.018uF	GRM155R71H183KA12D	MuRata	CAP, CERM, 0.018 uF, 50 V, +/- 10%, X7R, 0402	0402
15	C26	1	1000pF	C0402C102J3RACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 5%, X7R, 0402	0402
16	C27, C28, C29, C30	4			Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0402, X7R, 470pF, 25VDC	
17	C31	1	1uF	CGA3E1X7R1E105K080AC	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
18	C32	1	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
19	C38	1	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, 0603	0603
20	C49	1	33uF	C3216X5R1E336M160AC	TDK	CAP, CERM, 33 uF, 25 V, +/- 20%, X5R, 1206	1206
21	CY1, CY2	2	470pF	TMY1471K		470pF Y1 Cap	
22	D1	1		Z4DGP406L-HF	Comchip	Bridge Rectifier Single Phase Standard 600 V Surface Mount Z4-D	SMT_8MM1_10MM5
23	D2, D7	2	5V	CDSOD323-T05C	Bourns	Diode, TVS, Bi, 5 V, SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark	SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark
24	D3	1	1000V	MRA4007T3G	ON Semiconductor	Diode, Standard Recovery Rectifier, 1000 V, 1 A, AEC-Q101, SMA	SMA
25	D4, D5	2	600V	ES1JFL	ON Semiconductor	Diode, Switching, 600 V, 1 A, SOD-123	SOD-123
26	D6, D8	2		STS321050B331	Eaton	18V Clamp 22A (8/20us) Ipp Tvs Diode Surface Mount SOD-323	SOD-323
27	D9	1	200V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOD-123	SOD-123
28	D13	1	40V	RB521SM-40T2R	Rohm	Diode, Schottky, 40 V, 0.2 A, SOD-523	SOD-523
29	EC6, EC7	2	470uF	NPXC1001E471M1JTM	Yongming	25V/470uF D5.6*11mm	
30	F1	1		JFC2410-1400TS	Shenzhen JDT Fuse	50A SMD Fuse 4A 250V 250V SMD Disposable fuses ROHS	SMT_FUSE_6MM1_2MM6
31	J4	1		DX07S024J32R1300	JAE Electronics	Receptacle, USB 3.1 Type C, R/A, Gold, SMT	Receptacle, USB 3.1 Type C, R/A, SMT
32	J5	1		22284043	Molex	Header, 2.54mm, 4x1, Tin, TH	Header, 2.54mm, 4x1, TH
33	L1	1	47uH	MNR-6045-470MT	Mag Layers	Inductor, Wirewound, Ferrite, 47 uH, SMD	6 x 4.5 x 6mm
34	L5	1	33uH	CM0950-330	AWK	33uH, CM choke, SMD, 10mm*8.4mm*5.2mm	
35	Q1	1	150V	BSC093N15NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 150 V, 87 A, PG-TDSON-8	PG-TDSON-8
36	Q2	1	30V	CSD17575Q3	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, DQG0008A (VSON-CLIP-8)	DQG0008A
37	R1	1	470k	CRCW0805470KJNEA	Vishay-Dale	RES, 470 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
38	R3, R17	2	30	RC1206FR-0730RL	Yageo America	RES, 30.0, 1%, 0.25 W, 1206	1206
39	R4, R12	2	1.1	CRCW04021R10FKED	Vishay-Dale	RES, 1.10, 1%, 0.063 W, 0402	0402
40	R5	1	4.7k	CRCW12064K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.25 W, 1206	1206
41	R6	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
42	R7	1	7.68k	CRCW04027K68FKED	Vishay-Dale	RES, 7.68 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
43	R8	1	36.5k	CRCW040236K5FKED	Vishay-Dale	RES, 36.5 k, 1%, 0.063 W, 0402	0402
44	R9	1	2.2	CRCW04022R20JNED	Vishay-Dale	RES, 2.2, 5%, 0.063 W, 0402	0402
45	R10	1	3.01k	CRCW04023K01FKED	Vishay-Dale	RES, 3.01 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
46	R13	1	150	CRCW0402150RFKED	Vishay-Dale	RES, 150, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
47	R14	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
48	R18	1	1	CRCW04021R00JNED	Vishay-Dale	RES, 1.0, 5%, 0.063 W, 0402	0402
49	R20	1	56.2k	RC0603FR-0756K2L	Yageo	RES, 56.2 k, 1%, 0.1 W, 0603	0603
50	R21	1	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	0402
51	R22	1	0.01	RU3216FR101CS	Samsung	RES, 0.01, 1%, 0.5 W, 1206	1206
52	R23, R29	2	3.30k	ERJ-2RKf3301X	Panasonic	RES, 3.30 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
53	R24, R25, R27, R28	4	6.8	CRCW04026R80JNED	Vishay-Dale	RES, 6.8, 5%, 0.063 W, 0402	0402
54	R26	1	51k	CRCW040251K0JNED	Vishay-Dale	RES, 51 k, 5%, 0.063 W, 0402	0402
55	R31	1	0.1	ERJ-2BSFR10X	Panasonic	RES, 0.1, 1%, 0.125 W, 0402	0402
56	R32	1	300	RC0603FR-07300RL	Yageo	RES, 300, 1%, 0.1 W, 0603	0603
57	R35	1	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
58	R36	1	1.0k	ESR03EZPJ102	Rohm	RES, 1.0 k, 5%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
59	R42	1	51.1k	CRCW040251K1FKED	Vishay-Dale	RES, 51.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
60	R43	1	25.5k	CRCW040225K5FKED	Vishay-Dale	RES, 25.5 k, 1%, 0.063 W, 0402	0402
61	RT1	1	100k	NCP15WF104F03RC	MuRata	Thermistor NTC, 100k ohm, 1%, 0402	0402
62	T1	1	EDI2721	EDI2721	AWK		
63	T2	1					
64	U1	1		IP2723TH	Injoinic	Integrate multiple protocols, fast charging protocol IC for USB-C port	QFN24
65	U3	1		VOL618A-2T	Vishay-Semiconductor	Optocoupler, 5 kV, 63-125% CTR, SMT	8x2x4mm
66	U5	1		SY5238DGD	Silergy	ZVS Flyback SRController	DFN8
67	U8	1		UCG28826	Texas Instruments	UCG28826	VQFN12
68	C20	0	4700pF	GRM155R71H472KA01D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0402	0402
69	C21	0	100pF	8.85012E+11	Würth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
70	R2	0	1.1	CRCW04021R10FKED	Vishay-Dale	RES, 1.10, 1%, 0.063 W, 0402	0402
71	R11	0	43.0k	RG1608P-433-B-T5	Susumu Co Ltd	RES, 43.0 k, 0.1%, 0.1 W, 0603	0603
72	R15	0	4.70k	RC0402FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.0625 W, 0402	0402
73	R16	0	1	CRCW04021R00JNED	Vishay-Dale	RES, 1.0, 5%, 0.063 W, 0402	0402
74	R19	0	33.0k	RG1608P-333-B-T5	Susumu Co Ltd	RES, 33.0 k, 0.1%, 0.1 W, 0603	0603
75	R30	0	1.00k	MCR01MZPF1001	Rohm	RES, 1.00 k, 1%, 0.063 W, 0402	0402
76	U2	0		ATL431AIDB2R	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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