

Variant: 001
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PMP23558 REV C Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	BD1, BD2	2					
2	C1	1	1nF	R413D1100JMT0K	KEMET	1000 pF Film Capacitor 300V 1500V (1.5kV) Polypropylene (PP), Metallized Radial	RADIAL
3	C2	1	0.22uF	8.90324E+11	Würth Elektronik	CAP, Film, 0.22 uF, 275 V, +/- 10%, TH	15x7mm
4	C3, C104, C105	3	220µF	227AVG035MFBJ	Cornell Dubilier	220 µF 35 V Aluminum - Polymer Capacitors Radial, Can 26mOhm 1500 Hrs @ 125°C	RADIAL
5	C4	1	100uF	35ZLJ100M6.3X11	Rubycon	CAP, AL, 100 µF, 35 V, +/- 20%, TH	D6.3xL11mm
6	C5	1	330pF	C0603C331K5RACTU	Kemet	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0603	0603
7	C6	1	10uF	GRM188R61E106KA73D	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0603	0603
8	C7	1	0.01uF	C0603C103K5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
9	C8	1	470pF	06035A471JAT2A	AVX	CAP, CERM, 470 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
10	C9	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
11	C10, C101, C110	3	0.1uF	06035C104KA22A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
12	C21, C23, C117, C128	4	1uF	GRJ188R71E105KE11D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
13	C22, C24, C102, C111	4	22pF	CGA3E2C0G1H220J080AA	TDK	CAP, CERM, 22 pF, 50 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0603	0603
14	C25, C27, L22	3		Used in BOM report	Used in BOM report		eg: 0603, used in PnP report
15	C28	1	10pF	VJ1206A100JXGAT5Z	Vishay-Vitramon	CAP, CERM, 10 pF, 1000 V, +/- 5%, COG/NP0, 1206	1206
16	C29, C30	2		Used in BOM report	Used in BOM report	EKXN451ELL820MK40S	eg: 0603, used in PnP report
17	C31	1	0.1uF	C3216X7T2W104K160AE	TDK	CAP, CERM, 0.1 uF, 450 V, +/- 10%, X7T, 1206	1206
18	C32	1	3300pF	GRM1885C1H332JA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
19	C33, C120	2	220pF	GRM1885C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
20	C36	1	0.22uF	GCM188R71H224KA64D	MuRata	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
21	C37, C39	2	1uF	06033C105KAT2A	AVX	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
22	C38	1	0.033uF	GRM188R71H333KA61D	MuRata	CAP, CERM, 0.033 uF, 50 V, +/- 10%, X7R, 0603	0603
23	C40	1	390pF	C0603C391J5GACTU	Kemet	CAP, CERM, 390 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
24	C41	1	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
25	C103, C109	2	0.015uF	PHE426MA5150JR05	Kemet	CAP, Film, 0.015 uF, 630 V, +/- 20%, TH	13x4mm
26	C106, C107	2	10uF	CL31B106KBHNNNE	Samsung	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1206	1206
27	C108	1	150pF	GRM31A5C2J151JW01D	MuRata	CAP, CERM, 150 pF, 630 V, +/- 5%, COG/NP0, 1206	1206
28	C112, C112A	2	15uF	C2012X5R1V156M125AC	TDK	CAP, CERM, 15 uF, 35 V, +/- 20%, X5R, 0805	0805
29	C114	1	4.7uF	GRM188Z71A475ME15D	MuRata	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X7R, 0603	0603
30	C115	1	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, 0603	0603
31	C116	1	1500pF	GRM188R71H152KA01D	MuRata	CAP, CERM, 1500 pF, 50 V, +/- 10%, X7R, 0603	0603
32	C118	1	180pF	06035A181JAT2A	AVX	CAP, CERM, 180 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
33	C119	1	0.047uF	C1608X7R1H473K080AA	TDK	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, 0603	0603
34	C121	1	100pF	C0603C101F5GACTU	Kemet	CAP, CERM, 100 pF, 50 V, +/- 1%, COG/NP0, 0603	0603
35	C122, C123	2	0.022uF	C1206C223KDRACTU	Kemet	CAP, CERM, 0.022 µF, 1000 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
36	C124	1	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
37	C125, C126	2	100pF	C1608COG2A101F080AA	TDK	CAP, CERM, 100 pF, 100 V, +/- 1%, COG/NP0, 0603	0603
38	C127	1	1000pF	C0603X102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
39	C200	1			Würth Elektronik	WCAP-ATUL Aluminum Electrolytic Capacitor, Radial, THT, D10 x H12.5mm, 220µF, 35V	
40	C201, C202	2	2200pF	VY2222M35Y5US63V7	Vishay-Bccomponents	CAP, CERM, 2200 pF, 440 V, +/- 20%, VY2, D9xT5mm	D9xT5mm
41	CY101	1	1000pF	DK1E3EA102M86RAH01	MuRata	CAP, CERM, 1000 pF, X1 440 VAC/Y1 250 VAC, +/- 20%, E, 8x6mm	8x6mm
42	D1, D5	2	40V	SD103AWS-TP	Micro Commercial Componer	Diode, Schottky, 40 V, 0.35 A, SOD-323	SOD-323

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43	D2	1	1000V	S1MFL	ON Semiconductor	Diode, GP, 1KV, 1 A, SOD-123F	SOD-123
44	D3	1	1000V	S1MFL	ON Semiconductor	Diode, GP, 1KV, 1 A, SOD-123F	SOD-123F
45	D4	1	18V	MMSZ5248BS-7-F	Diodes Inc.	Diode, Zener, 18 V, 200 mW, SOD-323	SOD-323
46	D21, D25	2	1000V	S3MB-13-F	Diodes Incorporated	Diode, GP, 1000V, 3 A, SMB	SMB
47	D22	1	600V	BYV34G-600,127	ON Semiconductor	Diode, Ultrafast, 600 V, 8 A, TO-220AB	TO-220AB
48	D23, D24	2	75V	1N4148WS-7-F	Diodes Inc.	Diode, Switching, 75 V, 0.15 A, AEC-Q101, SOD-323	SOD-323
49	D101	1	200V	ES1D-E3/61T	Vishay-Semiconductor	Diode, Ultrafast, 200 V, 1 A, AEC-Q101, SMA	SMA
50	D102	1	600V	UFM15PL-TP	Micro Commercial Componen	Diode, Ultrafast, 600 V, 1 A, SOD-123FL	SOD-123FL
51	D103	1	27V	MM3Z27VST1G	ON Semiconductor	Diode, Zener, 27 V, 300 mW, SOD-323	SOD-323
52	D200	1		BZX84J-C3V0,115	Nexperia	Diode Zener Single 4.7V 2% 550mW Automotive 2-Pin SOD-323F T/R	SC90
53	F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	8x8.5x4mm
54	L1	1		744842565	Würth Elektronik	Coupled inductor, 5 A, 0.013 ohm, TH	18.5x14.5mm
55	L2	1		744824310	Würth		
56	L3	1	43uH	ATQ18-43UH-MY	3L	RESONANT INDUCTOR	PTH2
57	L4	1	105uH	202410103L250W	3L	250W PFC Inductor	PTH3
58	Q1	1	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
59	Q101, Q102	2	60V	CSD18540Q5B	Texas Instruments	MOSFET, N-CH, 60 V, 100 A, DNK0008A (VSON-CLIP-8)	DNK0008A
60	Q103, Q104	2		TLP383(GR-TPL,E	Toshiba	Optoisolator Transistor Output 5000Vrms 1 Channel 6-SO	SO6-4
61	R1, R2	2	2.2k	CRCW12062K20JNEA	Vishay-Dale	RES, 2.2 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
62	R3	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
63	R4	1	100k	CRCW0603100KJNEAC	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
64	R5	1	0	RCS06030000Z0EA	Vishay-Dale	RES, 0, 0%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
65	R8	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
66	R9	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
67	R10	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
68	R21, R23, R28	3	2.74Meg	CRCW08052M74FKEA	Vishay-Dale	RES, 2.74 M, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
69	R22, R26, R27	3	3.24Meg	CRCW08053M24FKEA	Vishay-Dale	RES, 3.24 M, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
70	R24, R25, R101, R105	4	150k	CRCW0603150KJNEA	Vishay-Dale	RES, 150 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
71	R29	1	24.3k	RC0603FR-0724K3L	Yageo	RES, 24.3 k, 1%, 0.1 W, 0603	0603
72	R30	1	1.82Meg	CRCW08051M82FKEA	Vishay-Dale	RES, 1.82 M, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
73	R31	1	64.9	RC0603FR-0764R9L	Yageo	RES, 64.9, 1%, 0.1 W, 0603	0603
74	R32	1	20	CRCW060320R0JNEA	Vishay-Dale	RES, 20, 5%, 0.1 W, 0603	0603
75	R33	1	750	RC0603JR-07750RL	Yageo	RES, 750, 5%, 0.1 W, 0603	0603
76	R34, R38	2	47	CRCW060347R0JNEA	Vishay-Dale	RES, 47, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
77	R35	1	180k	CRCW0603180KJNEA	Vishay-Dale	RES, 180 k, 5%, 0.1 W, 0603	0603
78	R36	1	220k	CRCW0603220KJNEA	Vishay-Dale	RES, 220 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
79	R37	1	66.5k	RC0603FR-0766K5L	Yageo	RES, 66.5 k, 5%, 0.1 W, 0603	0603
80	R102, R122	2	0.003	CSNL1206FT3L00	Stackpole Electronics Inc	RES, 0.003, 1%, 1 W, 1206	1206
81	R103	1	220k	RC0603FR-07220KL	Yageo	RES, 220 k, 1%, 0.1 W, 0603	0603
82	R104	1	25.5k	RC0603FR-0725K5L	Yageo	RES, 25.5 k, 1%, 0.1 W, 0603	0603
83	R106	1	1	RC0603FR-071RL	Yageo	RES, 1.00, 1%, 0.1 W, 0603	0603
84	R107	1	21.5k	RC0603FR-0721K5L	Yageo	RES, 21.5 k, 1%, 0.1 W, 0603	0603
85	R108	1	470k	B57371V2474J060	TDK	NTC Thermistor 470k 0603 (1608 Metric)	0603
86	R109, R114, R115	3	4.99Meg	CRCW08054M99FKEA	Vishay-Dale	RES, 4.99 M, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
87	R110	1	47.5k	RC0603FR-0747K5L	Yageo	RES, 47.5 k, 1%, 0.1 W, 0603	0603
88	R111	1	14.0k	RC0603FR-0714KL	Yageo	RES, 14.0 k, 1%, 0.1 W, 0603	0603
89	R112	1	10k	RC0603JR-0710KL	Yageo	RES, 10 k, 5%, 0.1 W, 0603	0603
90	R113	1	182	RC0603FR-07182RL	Yageo	RES, 182, 1%, 0.1 W, 0603	0603
91	R117	1	162k	RC0603FR-07162KL	Yageo	RES, 162 k, 1%, 0.1 W, 0603	0603
92	R118	1	10.0k	M55342K12B10E0T	TT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	0603
93	R119	1	604k	CRCW0603604KFKEA	Vishay-Dale	RES, 604 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
94	R120	1	158k	RC0603FR-07158KL	Yageo	RES, 158 k, 1%, 0.1 W, 0603	0603
95	R121	1	150k	RC0603FR-07150KL	Yageo	RES, 150 k, 1%, 0.1 W, 0603	0603

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96	R123	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
97	R125	1	221k	RC0603FR-07221KL	Yageo	RES, 221 k, 1%, 0.1 W, 0603	0603
98	R127	1	1.47k	RC0603FR-071K47L	Yageo	RES, 1.47 k, 1%, 0.1 W, 0603	0603
99	R128, R129	2	12	ERJ-6GEYJ120V	Panasonic	RES, 12, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
100	R130, R131	2	330	RC0603JR-07330RL	Yageo	RES, 330, 5%, 0.1 W, 0603	0603
101	R132	1	84.5k	RC0603FR-0784K5L	Yageo	RES, 84.5 k, 1%, 0.1 W, 0603	0603
102	R200	1	249	CRCW0603249RFKEA	Vishay-Dale	RES, 249, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
103	RV1	1		V275LA2P	Littelfuse	VARISTOR 450V 1.2KA DISC 7MM	Dia. 7mm
104	T1	1		ATQ27-T-375UH-W6	3L	LLC TRANSFORMER	
105	TP1, TP2, TP101, TP106	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
106	U1	1		OPA2170AIDCUR	Texas Instruments	36V, microPower, Rail-to-Rail Output, Dual, General Purpose Op Amp in microPackage, DCU0008A (VSSOP-8)	DCU0008A
107	U2	1		LM4040D25QDBZR	Texas Instruments	Precision Micropower Shunt Voltage Reference, 1% accuracy, 2.5 V, 15 ppm / degC, 15 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
108	U21, U22, U101, U103	4		LMG3622REQ	Texas Instruments	650-V GaN FET With Integrated Driver and Current Sense Emulation	VQFN38
109	U23	1		UCC28056ADBVR	Texas Instruments	6-Pin Single-Phase Transition-Mode PFC Controller, DBV0006A (SOT-23 6)	DBV0006A
110	U102	1		UCC256604DDBR	Texas Instruments	750kHz Wide VIN/VOUT Range LLC Controller Optimized for Light Load Efficiency	SOIC14
111	U105	1		MP6924AGS-P	Monolithic Power Systems	Power Supply Controller Flyback, Forward Converters, LLC 8-SOIC	SOIC8
112	C113	0	4700pF	C0603C472K5RACTU	Kemet	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603
113	CY1, CY2	0	1000pF	DK1E3EA102M86RAH01	MuRata	CAP, CERM, 1000 pF, X1 440 VAC/Y1 250 VAC, +/- 20%, E, 8x6mm	8x6mm
114	Q2	0	30V	DMN63D8LDW-7	Diodes Inc.	MOSFET, 2-CH, N-CH, 30 V, 0.22 A, AEC-Q101, SOT-363	SOT-363
115	R6	0	510k	CRCW0603510KJNEA	Vishay-Dale	RES, 510 k, 5%, 0.1 W, 0603	0603
116	R7	0	0	RCS06030000Z0EA	Vishay-Dale	RES, 0, 0%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
117	R116	0	750	CRCW0603750RFKEA	Vishay-Dale	RES, 750, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
118	R126	0	2.0k	CRCW06032K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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