

Variant: 001
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PMP23464 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C2	2	0.47uF	R46K1347050P0K	Kemet	CAP. Film, 0.47 uF, X2 275 VAC, +/- 10%, TH	18x8.5mm
2	C3	1	4.7uF	C2012X7R1E475K125AB	TDK	CAP. CERM, 4.7 uF, 25 V, +/- 10%, X7R, 0805	0805
3	C4	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP. CERM, 2200 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
4	C5	1	1.2uF	ECW-FD2W125K	Panasonic Electronic Compon	CAP. Film, 1.2 uF, 450 V, +/- 10%, TH	B32922-17.5mm
5	C6	1	1000pF	GRM1885C1H102FA01J	MuRata	CAP. CERM, 1000 pF, 50 V, +/- 1%, COG/NP0, 0603	0603
6	C7, C18	2	2.2uF	08053C225KAT2A	AVX	CAP. CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	0805
7	C8	1	1uF	C0603C105K3RACTU	Kemet	CAP. CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
8	C9	1	270pF	GRM1885C1H271JA01D	MuRata	CAP. CERM, 270 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
9	C10	1	2.2uF	C2012X7R1H225K125AC	TDK	CAP. CERM, 2.2 uF, 50 V, +/- 10%, X7R, 0805	0805
10	C11	1	220uF	450HXG220MEFCSN25X40	Rubycon	CAP. AL, 220 uF, 450 V, +/- 20%, TH	D25xL40mm
11	C12	1	0.47uF	GRM188R1E474KA12D	MuRata	CAP. CERM, 0.47 uF, 25 V, +/- 10%, X7R, 0603	0603
12	C13	1	220pF	C1005COG1H221F060BA	TDK	CAP. CERM, 220 pF, 50 V, +/- 1%, COG/NP0, 0402	0402
13	C14	1	0.022uF	ECW-F6223HL	Panasonic	CAP. Film, 0.022 uF, 630 V, +/- 3%, TH	12.5x6.2mm
14	C15, C17	2	2.2uF	CGA4J1X7R1V125K125AC	TDK	2.2uF +/-10% 35V Ceramic Capacitor X7R 0805 (2012 Metric)	0805
15	C16	1	2200pF	GRM155R61E22KA01D	MuRata	CAP. CERM, 2200 pF, 25 V, +/- 10%, X5R, 0402	0402
16	C19	1	1000pF	GRM155R72A102KA01D	MuRata	CAP. CERM, 1000 pF, 100 V, +/- 10%, X7R, 0402	0402
17	C20	1	3300pF	C0603C332K5RACTU	Kemet	CAP. CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
18	C21	1	1000pF	04025C102JA2A	AVX	CAP. CERM, 1000 pF, 50 V, +/- 5%, X7R, 0402	0402
19	C22, C23	2	0.022uF	ECW-H8223HA	Panasonic Electronic Compon	CAP. Film, 0.022 uF, 800 V, +/- 3%, TH	15x7mm
20	C24	1	150pF	GRM31A5C2J151JW01D	MuRata	CAP. CERM, 150 pF, 630 V, +/- 5%, COG/NP0, 1206	1206
21	C27	1	0.22uF	GRM188R1E224KA88D	MuRata	CAP. CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	0603
22	C28	1	680pF	06035A681FA2A	AVX	CAP. CERM, 680 pF, 50 V, +/- 1%, COG/NP0, 0603	0603
23	C29, C32, C35, C36, C43, C45, C47, C57	8	0.1uF	C0603X104K3RACTU	Kemet	CAP. CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
24	C30	1	2200pF	C921U22MVVDBA7317	Kemet	CAP. CERM, 2200 pF, X1 400 VAC/Y1 400 VAC, +/- 20%, Y5V, D9xL13mm	D9xL13mm
25	C31	1	0.01uF	C0603X103K5RACTU	Kemet	CAP. CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
26	C33	1	1000pF	C0603C102K3GACTU	Kemet	CAP. CERM, 1000 pF, 25 V, +/- 10%, COG/NP0, 0603	0603
27	C34	1	470pF	C0603X471K5RACTU	Kemet	CAP. CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
28	C37, C38	2	100pF	CL21C101JECNNWC	Samsung Electro-Mechanics	CAP. CERM, 100 pF, 250 V, +/- 5%, COG/NP0, 0805	0805
29	C39, C41	2	680uF	EEUFS1K681	Panasonic Electronic Compon	CAP. AL, 680 uF, 80 V, +/- 20%, TH	D16xL25mm
30	C40	1	0.22uF	C1608X7R1E224K080AC	TDK	CAP. CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	0603
31	C42	1	0.01uF	C0603X103K1RACTU	Kemet	CAP. CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	0603
32	C44, C46	2	1uF	GRM31CR72A105KA01L	MuRata	CAP. CERM, 1 uF, 100 V, +/- 10%, X7R, 1206	1206
33	C48	1	22uF	25ML22MEFC5X5	Rubycon	CAP. AL, 22 uF, 25 V, +/- 20%, TH	RCAP, 5x5mm
34	C49	1	100uF	EEU-FM1E101	Panasonic	CAP. AL, 100 uF, 25 V, +/- 20%, 0.13 ohm, TH	6.3x11.2mm
35	C50	1	1uF	C1608X7R1E105K080AE	TDK	CAP. CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
36	C51, C53	2	470pF	08051A471JA2A	AVX	CAP. CERM, 470 pF, 100 V, +/- 5%, COG/NP0, 0805	0805
37	C52, C58	2	2200pF	GRM31BR72J22K0W01L	MuRata	CAP. CERM, 2200 pF, 630 V, +/- 10%, X7R, 1206	1206
38	C54	1	220uF	EKZE250ELL221MHBS5D	Chemi-Con	CAP. AL, 220 uF, 25 V, +/- 20%, TH	D8xL11.5
39	C55, C56	2	1uF	GRM216R61E105KA12D	MuRata	CAP. CERM, 1 uF, 25 V, +/- 10%, X5R, 0805	0805
40	C100	1	330pF	C1608COG1H331F080AA	TDK	CAP. CERM, 330 pF, 50 V, +/- 1%, COG/NP0, 0603	0603
41	CY1, CY2	2	2200pF	DE6E3KJ222MNSA	MuRata	CAP. CERM, 2200 pF, 300 V, +/- 20%, E, TH, 2-Leads, Body 9x7mm, Pin Spacing 7.5mm	TH, 2-Leads, Body 9x7mm, Pin Spacing 7.5mm
42	D1	1	600V	GBJ2506-BP	Micro Commercial Componer	Diode, P-N Bridge, 600 V, 25 A, TH	Diode Bridge, TH
43	D2	1	250V	BAV23CLT1G	ON Semiconductor	Diode, Switching, 250 V, 0.4 A, SOT-23	SOT-23
44	D3	1	600V	1N5406	Vishay-Semiconductor	Diode, Switching Bridge, 600 V, 3 A, TH	DO-201AD
45	D4	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
46	D5	1	600V	CM3D04060A	Cree	Diode, Schottky, 600 V, 4 A, TH	TO-220F2
47	D6	1	5.1V	MM3Z5V1ST1G	ON Semiconductor	Diode, Zener, 5.1 V, 300 mW, SOD-323	SOD-323
48	D7, D8	2	30V	FMEG3010EGWJ	Nexperia	Diode, Schottky, 30 V, 1 A, AEC-Q101, SOD-123	SOD-123
49	D9	1	600V	ES1JAF	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	SMAF
50	D10	1	30V	BA1T54AWT-TG	Micro Commercial Componer	Diode, Schottky, 30 V, 0.2 A, SOT-323	SOT-323
51	D11, D12	2	200V	TS120L200CW C0G	Taiwan Semiconductor Corpo	Diode, Schottky, 200 V, 20 A, TH	TO-220AB
52	D13, D14, D15, D16	4	30V	BA1T43WS-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
53	D17	1		MT6224-AHRG-A	Marktech Optoelectronics	LED GRN/RED DIFF 5MM ROUND T/H	RADIAL
54	D18	1	5.6V	MM3Z5V6S1T1G	ON Semiconductor	Diode, Zener, 5.6 V, 300 mW, SOD-323	SOD-323
55	D19	1	75V	1N4148WX-TP	Micro Commercial Componer	Diode, Switching, 75 V, 0.15 A, SOD-323	SOD-323
56	D20, D22	2	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
57	D21	1	1000V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000 V, 1 A, SMA	SMA
58	D23	1	11V	BZX384-C11,115	NXP Semiconductor	Diode, Zener, 11 V, 300 mW, SOD-323	SOD-323
59	F1	1		0216008.MXEP	Littelfuse	Fuse, 10 A, 250 VAC, TH	Fuse, 20x5.2mm
60	H1	1		40mm*120mm			
61	H2	1		40mm*40mm			
62	I, OPTO	1		5012	Keystone Electronics	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
63	J1	1		1714968	Phoenix Contact	Terminal Block, 3x1, 6.35 mm, TH	19x21.5x12.5mm
64	J2	1		691216510002S	Würth Elektronik	Receptacle, 5.08mm, 2x1, Brass, TH	Receptacle, 5.08mm, 2x1, TH
65	L3	1	7mH	7448040707	Würth Elektronik	Coupled inductor, 7 mH, 7 A, 0.02 ohm, TH	19x28mm
66	L4	1	340uH	MAG-3001497	Bourns	PFC INDUCTOR	PTH12
67	L5	1	58uH	MAG-3001500	Bourns	LLC INDUCTOR	PTH12
68	Q1	1	600V	IPW60R080P7XKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 37 A, TO-247	TO-247
69	Q2	1	40 V	MMBT2222ALT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.6 A, SOT-23	SOT-23
70	Q3	1	60 V	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
71	Q4	1	600V	IPD60R180P7SAUMA1	Infineon Technologies	MOSFET, N-CH, 600 V, 18 A, DPAK	DPAK
72	Q5	1	40 V	MMBT3906LT1G	ON Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
73	Q6, Q11, Q14	3	40 V	MMBT3904LT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
74	Q7, Q8	2	600V	IPA60R170CFD7XKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 8 A, TO-220FP	TO-220FP
75	Q9, Q10, Q12, Q13	4	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
76	Q15	1	40 V	2N4401-AP	Micro Commercial Componer	Transistor, NPN, 40 V, 0.5 A, TO-92AP	TO-92AP
77	Q16, Q17	2	30 V	BC858C-7-F	Diodes Inc.	Transistor, PNP, 30 V, 0.1 A, SOT-23	SOT-23
78	R1, R2, R3	3	330k	RC1206FR-07330KL	Yageo America	RES, 330 k, 1%, 0.25 W, 1206	1206
79	R4, R18, R28, R74	4	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
80	R5	1	220	RC0603FR-07220RL	Yageo	RES, 220, 1%, 0.1 W, 0603	0603
81	R6	1	21.5k	RC0603FR-0721K5L	Yageo	RES, 21.5 k, 1%, 0.1 W, 0603	0603
82	R7	1	0.02	CSRN2512FK20L0	Stackpole Electronics Inc	RES, 0.02, 1%, 2 W, 2512	2512

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
83	R8, R20, R33, R34, R42, R44, R52, R84	8	10.0k	RC0603FR-0710K	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	0603
84	R9, R12, R13	3	3.3	RC1206FR-073R3L	Yageo America	RES, 3.30, 1%, 0.25 W, 1206	1206
85	R10	1	11.5k	RC0603FR-0711K5L	Yageo	RES, 11.5 k, 1%, 0.1 W, 0603	0603
86	R11, R67, R70	3	10	RC0603FR-0710RL	Yageo	RES, 10.0, 1%, 0.1 W, 0603	0603
87	R14, R15, R16	3	1.00Meg	RC1206FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.25 W, 1206	1206
88	R17	1	39.0k	RC0603FR-0739K	Yageo	RES, 39.0 k, 1%, 0.1 W, 0603	0603
89	R19, R21, R22, R64	4	100k	RC0603FR-07100K	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
90	R23	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
91	R24	1	51.1k	RC0603FR-0751K1L	Yageo	RES, 51.1 k, 1%, 0.1 W, 0603	0603
92	R25	1	357k	RC0603FR-07357K	Yageo	RES, 357 k, 1%, 0.1 W, 0603	0603
93	R26	1	470k	B57371V2474J060	TDK	NTC Thermistor 470k 0603 (1608 Metric)	0603
94	R27	1	2.2	ERJ-3RQF2R2V	Panasonic	RES, 2.20, 1%, 0.1 W, 0603	0603
95	R29, R30	2	22.1	RC0603FR-0722R1L	Yageo	RES, 22.1, 1%, 0.1 W, 0603	0603
96	R31	1	115	CRCW1206115RFKEA	Vishay-Dale	RES, 115, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
97	R32	1	1M	MCT0603MD1004BP500	Vishay	1 MOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Anti-Sulfur, Automotive AEC-Q200, Moisture Resistant Thin Film	0603
98	R35	1	402k	RC0603FR-07402K	Yageo	RES, 402 k, 1%, 0.1 W, 0603	0603
99	R36	1	51.0k	RC0603FR-0751K1L	Yageo	RES, 51.0 k, 1%, 0.1 W, 0603	0603
100	R37	1	158k	RC0603FR-07158K	Yageo	RES, 158 k, 1%, 0.1 W, 0603	0603
101	R38	1	0	RMCF06032T0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
102	R39, R41, R56, R82	4	3.00k	RC0603FR-073K	Yageo	RES, 3.00 k, 1%, 0.1 W, 0603	0603
103	R40	1	8.25k	RC0603FR-078K25L	Yageo	RES, 8.25 k, 1%, 0.1 W, 0603	0603
104	R43	1	301k	RC0603FR-07301K	Yageo	RES, 301 k, 1%, 0.1 W, 0603	0603
105	R45, R47, R58	3	5.10k	RC0603FR-075K1L	Yageo	RES, 5.10 k, 1%, 0.1 W, 0603	0603
106	R46	1	7.50k	RC0603FR-077K5L	Yageo	RES, 7.50 k, 1%, 0.1 W, 0603	0603
107	R48, R49, R50, R51, R75, R81	6	10	RC1206FR-0710RL	Yageo America	RES, 10.0, 1%, 0.25 W, 1206	1206
108	R53	1	68.0k	RC0603FR-0768K	Yageo	RES, 68.0 k, 1%, 0.1 W, 0603	0603
109	R54, R60	2	10.2k	RC0603FR-0710K2L	Yageo	RES, 10.2 k, 1%, 0.1 W, 0603	0603
110	R55	1	187	RC0603FR-07187RL	Yageo	RES, 187, 1%, 0.1 W, 0603	0603
111	R57	1	2.40k	RC0603FR-072K4L	Yageo	RES, 2.40 k, 1%, 0.1 W, 0603	0603
112	R59	1	499	RC0603FR-07499RL	Yageo	RES, 499, 1%, 0.1 W, 0603	0603
113	R61, R63	2	20	RC0603FR-0720RL	Yageo	RES, 20.0, 1%, 0.1 W, 0603	0603
114	R62	1	12.4k	RC0603FR-0712K4L	Yageo	RES, 12.4 k, 1%, 0.1 W, 0603	0603
115	R65	1	5.11k	RC0603FR-075K11L	Yageo	RES, 5.11 k, 1%, 0.1 W, 0603	0603
116	R66, R83	2	1.00k	RC0603FR-071K	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	0603
117	R68, R69	2	0.01	CSR1206FK10L0	Stackpole Electronics Inc	RES, 0.01, 1%, 0.5 W, 1206	1206
118	R71, R72	2	510	RC0603FR-07510RL	Yageo	RES, 510, 1%, 0.1 W, 0603	0603
119	R73	1	3.60k	RC0603FR-073K6L	Yageo	RES, 3.60 k, 1%, 0.1 W, 0603	0603
120	R76	1	200k	RC1206FR-07200K	Yageo America	RES, 200 k, 1%, 0.25 W, 1206	1206
121	R77	1	200	RC1206FR-07200RL	Yageo America	RES, 200, 1%, 0.25 W, 1206	1206
122	R78	1	1.80k	RC0603FR-071K8L	Yageo	RES, 1.80 k, 1%, 0.1 W, 0603	0603
123	R79	1	82.0k	RC0603FR-0782K	Yageo	RES, 82.0 k, 1%, 0.1 W, 0603	0603
124	R80	1	30.0k	RC0603FR-0730K	Yageo	RES, 30.0 k, 1%, 0.1 W, 0603	0603
125	R87	1	47.5k	RC0603FR-0747K5L	Yageo	RES, 47.5 k, 1%, 0.1 W, 0603	0603
126	R88, R89, R90	3		KTR18EZF3304	Rohm Semiconductor	3.3 MOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Automotive AEC-Q200, High Voltage Thick Film	1206
127	R91	1	36.5k	ERA-3AEB3652V	Panasonic Electronic Comp	36.5 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	0603
128	RF1	1	47	EMC2-47RK1	TT Electronics/IRC	RES, 47, 10%, 2 W, Axial resistor	Axial resistor
129	RV1	1	275V	S10K275E2	TDK	Varistor 275V RMS 10MM Radial, TH	10mm Radial
130	T1	1		MAG-3001499	Bourns	LLC TRANSFORMER	PTH_XFRMR_36MM0_35MM0
131	T2	1		MAG-3001498	Bourns	FLYBACK TRANSFORMER	PTH_XFRMR_20MM5_14MM2
132	U1	1		UCC28180DR	Texas Instruments	8-PIN CONTINUOUS CONDUCTION MODE (CCM) PFC CONTROLLER, D0008A (SOIC-8)	D0008A
133	U2	1		UCC256603DDBR	Texas Instruments	750kHz Wide VIN/VOUT Range LLC Controller Optimized for Light Load Efficiency	SOIC14
134	U3, U4	2		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
135	U5	1		TL431LAIDBZR	Texas Instruments	Programmable Shunt Regulator with Optimized Reference Current, DB20003A (SOT-23-3)	DB20003A
136	U6	1		LMV393IDR	Texas Instruments	GENERAL-PURPOSE LOW-VOLTAGE COMPARATORS, D0008A (SOIC-8)	D0008A
137	U7	1		TL103WAIDR	Texas Instruments	Dual Operational Amplifier with Internal Reference, 3 to 32 V, -40 to 105 degC, 8-pin SOIC (D8), Green (RoHS & no Sb/Br)	D0008A
138	U8	1		INA180A2IDBVR	Texas Instruments	Low- and High-Side Measurement, Multichannel, Voltage Output, Current-Sense Amplifier, DBV0005A (SOT-5)	DBV0005A
139	U9	1		UCC28910DR	Texas Instruments	700V Flyback Switcher with Constant-Voltage Constant-Current and Primary-side Control, D0007A (SOIC-7)	D0007A
140	J3	0		705430001	Molex	Header(shrouded), 2.54mm, 2x1, Gold, TH	Header(shrouded), 2.54mm, 2x1, TH
141	J4	0		22284043	Molex	Header, 2.54mm, 4x1, Tin, TH	Header, 2.54mm, 4x1, TH
142	L1	0	32uH	744842932	Würth Elektronik	Coupled inductor, 8.5 A, 0.0055 ohm, TH	18.5x14.5mm
143	L2	0		YXBCM020013007C	YAXN ELECTRONICS	8.3mH @ 10kHz 2 Line Common Mode Choke Through Hole DCR 12mOhm	PTH_CHOKE_12MM 5_25MM0
144	R85	0	10.0k	RC1206FR-0710K	Yageo America	RES, 10.0 k, 1%, 0.25 W, 1206	1206
145	R86	0	10.0k	RC0603FR-0710K	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	0603

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