

PMP23331 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	2200pF	C921U222MVVDB7317	Kemet	CAP, CERM, 2200 pF, X1 400 VAC/Y1 400 VAC, +/- 20%, Y5V, D9xL13mm	D9xL13mm
2	C2	1	1000pF	GRM31BR72J102KW01L	MuRata	CAP, CERM, 1000 pF, 630 V, +/- 10%, X7R, 1206	1206
3	C3, C4	2	0.1uF	C1210C104KBRAC7800	Kemet	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 1210	1210
4	C5	1		450BWX22MEFR18X16	Rubycon	Cap Aluminum Lytic 22uF 450V 20% (18 X 16mm) Radial 7.5mm 340mA 10000h 105C	RADIAL
5	C6	1	0.33uF	8.9039E+11	Würth Elektronik	Cap, Film, 0.33 uF, X2 275 VAC, +/- 10%, TH	15x8.5mm
6	C7	1	15uF	LVN23150MPD	Nichicon	CAP, 15 uF, 400 V, +/- 20%, AEC-Q200 Grade 2, TH	10x16mm
7	C8, C9	2	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
8	C10	1	680uF	AFSG200ELL681MB55	Chem-Con	CAP, Aluminum Polymer, 680 uF, 20 V, +/- 20%, 0.012 ohm, TH	10x11.5mm
9	C11	1	1000pF	800F151FT250XT	TDK	CAP, CERM, 150 pF, 250 V, +/- 10%, X7R, 0805	805
10	C13	1	22uF	GNK3258J2226M1P	Taiyo Yuden	CAP, CERM, 22 uF, 35 V, +/- 20%, XSR, 1210	1210
11	C14	1	10uF	C1210C108KBRAC7CTJ	Kemet	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
12	C15	1	4.7uF	CGA4J1X7R1E475K125AC	TDK	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
13	C16	1	22pF	GCM1555C1H220JA16D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0402	402
14	C17, C21	2	0.1uF	GRM155R71H104ME14D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X7R, 0402	402
15	C18	1	10uF	C3216XR1H106K160A5B	TDK	CAP, CERM, 10 uF, 50 V, +/- 10%, XSR, 1206	1206
16	C20	1	10uF	C1206C106J3RACAUTO	Kemet	CAP, CERM, 10 uF, 25 V, +/- 5%, X7R, AEC-Q200 Grade 1, 1206	1206
17	C22, C26	2	330pF	GRM155R71H331KA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0402	402
18	C23	1	1uF	CGA3E1X7R1V105K080AC	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
19	C25, C27	2	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	402
20	C28	1	1000pF	GRM155R72A122KAA01D	MuRata	CAP, CERM, 1200 pF, 100 V, +/- 10%, X7R, 0402	402
21	C30	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	402
22	C31	1	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	402
23	C32	1	22uF	GCM32ER71C226KE19L	MuRata	CAP, CERM, 22 uF, 16 V, +/- 10%, X7R, 1210	1210
24	D1	1	150V	SMAJ150A	Littelfuse	Diode, TVS, Uni, 150 V, 243 Vc, 400 W, 2.1 A, SMA	SMA
25	D2	1	1000V	MRM4400713Q	ON Semiconductor	Diode, Standard Recovery Rectifier, 1000 V, 1 A, AEC-Q101, SMA	SMA
26	D3, D6	2	200V	CSFM104-HF	Comchip Technology	Diode, Superfast Rectifier, 200 V, 1 A, 3.5x1.6mm	3.5x1.6mm
27	D4	1	120V	SMAJ120A	Littelfuse	Diode, TVS, Uni, 120 V, 193 Vc, 400 W, 2.1 A, SMA	SMA
28	D5	1	100V	BAS316, 115	Nexperia	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
29	D7	1	18V	CDSOD323-118C	Bourns Inc.	Diode, TVS, Bi, 18 V, SOD-323	SOD323
30	D8	1	40V	BAS40, 05-F	Diodes Inc.	Diode, Schottky, 40 V, 0.2 A, SOT-323	SOT-323
31	DB1	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, 24-D	Z4-D
32	F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	8x8.5x4mm
33	H1, H2, H3, H4	4		SJ-8303 (CLEAR)	3M	Bumpcon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpcon
34	J1, J2, J3	3		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
35	L1	1		7447052	Würth	WE-FI Leaded Toroidal Line Choke	PTH D10MM0
36	L2	1		RLT1-1387	Renco	Common Mode Choke, 2.3mH 35%, 0.6x0.38x0.75 IN	PTH_CMC_0IN38_01 N60
37	L3	1	3.3uH	X3L3630-323MEC	Coilcraft	Power Inductor, shielded, composite, 20% tol, SMT, RoHS, halogen-free USD 0.580	SMT_IND_3MM2_3M 145
38	G1	1		BSC074N15NS5ATMA1	Infineon	N-Channel 150 V 114A (Tc) 214W (Tc) Surface Mount, Wateable Flank PG-TSON-8-3	PG-TSON-8-3
39	G2	1	800V	IPD70R1K4P7S	Infineon Technologies	MOSFET, N-CH, 700 V DPAK	DPAK
40	Q3	1	800V	CPC3982TR	IXYS	MOSFET, N-CH, Depletion Mode, 800 V, SOT-23	SOT-23
41	R1	1	470k	CRCW0805470K9NEA	Vishay-Dale	RES, 470 k, 0.125 W, AEC-Q200 Grade 0, 0805	805
42	R2	1	15	CRCW080515R0JNEA	Vishay-Dale	RES, 15, 0.125 W, AEC-Q200 Grade 0, 0805	805
43	R3	1	20.5	CRCW080520R5FKEA	Vishay-Dale	RES, 20.5, 0.1, 0.125 W, AEC-Q200 Grade 0, 0805	805
44	R5	1	1	CSR0402FK1R00	Stackpole Electronics Inc	RES, 1.00, 1%, 0.125 W, 0402	402
45	R6	1	1	RK73H1JTD1000F	KOA Speer	100 Ohms ±1% 0.125W, 1/8W Chip Resistor 0603 (1608 Metric)	603
46	R7, R26	2	10.0k	CRCW040210K0FKED	Vishay-Dale	Autonotive AEC-Q200, Moisture Resistant Thick Film	402
47	R8	1	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
48	R9	1	80.6k	CRCW040280K6FKED	Vishay-Dale	RES, 80.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
49	R10	1	0.68	ERJ-6RCPFR68V	Panasonic	RES, 0.68, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
50	R11	1	0.22	MR25JDF1H220	Rohm	RES, 0.22, 1%, 0.5 W, 1210	1210
51	R12	1	511	CRCW0402511RFKED	Vishay-Dale	RES, 511, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
52	R13	1	27.4k	CRCW040227K4FKED	Vishay-Dale	RES, 27.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
53	R14	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
54	R17	1	2.10k	RC0402FR-0725K5L	Vishay-Dale	RES, 2.5 k, 1%, 0.063 W, 0402	402
55	R19	1	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	402
56	R19	1	0		Yageo / Phycamp	RES, 0, 5%, 0.063 W, 0402	402
57	R21	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
58	R22	1	9.31k		Panasonic	RES, 9.31 k, 1%, 0.063 W, 0402	402
59	R23	1	340	CRCW0402340RFKED	Vishay-Dale	RES, 340, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
60	R24	1	191k	CRCW0402191RFKED	Vishay-Dale	RES, 191 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
61	R25	1	39.2k	CRCW040239K2FKED	Vishay-Dale	RES, 39.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
62	R26	1	10.0k	RC0402FR-0710K1L	Yageo America	RES, 10.0 k, 1%, 0.063 W, 0402	402
63	R27	1	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
64	R29	1	169k	CRCW0402169KFKED	Vishay-Dale	RES, 169 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
65	R30	1	154k	CRCW0402154KFKED	Vishay-Dale	RES, 154 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
66	R31	1	93.1k	CRCW040293K1FKED	Vishay-Dale	RES, 93.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
67	R33	1	8.66k	CRCW04028K66FKED	Vishay-Dale	RES, 8.66 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
68	R34	1	0	CRCW0402000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	402
69	R36	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
70	RT1	1	47k	NCP18WB473JG3RB	MuRata	Thermistor NTC, 47k ohm, 5%, 195G	603
71	TL1	1		RLT1-1457	Renco Electronics	High Efficiency Flyback TRANSFORMER, PMP23331	PTH4_0N93_0N93
72	TP1, TP3	2		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
73	TP2	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
74	U1	1		TPS629203DRLR	Texas Instruments	3-V to 17-V, 300mA Low IQ Buck Converter in SOT85 Package	FCSC078
75	U2	1		UCC5904DQV	Texas Instruments	4-A/6-A, Single-Channel Reinforced Isolation Gate Driver with High Noise Immunity, DWV0008A (SOIC-8)	DWV0008A
76	U3	1		UCC28781QRTWRQ1	Texas Instruments	Zero-Voltage-Switching Flyback Controller with Dedicated Synchronous Rectifier Gate-Driver	WQFN24
77	U4	1		TLP383GR-TPL E	Toshiba	Optocoupler Transistor Output 5000V/ms 1 Channel 6-SO	SO6-4
78	U5	1		ATL431ADB2R	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DB20003A (SOT-23-3)	DB20003A
79	C12	0	1000pF	GRM21AR72E102KW01D	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	805
80	C19	0	22uF	GNK3258J2226M1P	Taiyo Yuden	CAP, CERM, 22 uF, 35 V, +/- 20%, XSR, 1210	1210
81	C24	0	0.015uF	GRM155R71H153KA12D	MuRata	CAP, CERM, 0.015 uF, 50 V, +/- 10%, X7R, 0402	402
82	C29	0	22pF	GCM1555C1H220JA16D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0402	402
83	D9	0	75V	1N4148X-TP7	Micro Commercial Components	Diode, Switching, 75 V, 0.3 A, SOD-523	SOD-523
84	D10	0	39V	BZT58B-391-F	Diodes Inc.	Diode, Zener, 39 V, 350 mW, AEC-Q101, SOD-523	SOD-523
85	D11	0	27V	SZM43227V5T1G	ON Semiconductor	Diode, Zener, 27 V, 300 mW, AEC-Q101, SOT-323	SOT-323
86	G4	0	40 V	MMST3906-F-F	Diodes Inc.	Transistor, PNP, 40 V, 0.2 A, AEC-Q101, SOT-323	SOT-323
87	Q5	0		IPB048N15NLF	Infineon	N-Channel 100V 100A (Tc) 214W (Tc) Surface Mount DPAK (TO-263AB)	DZPAK
88	R4	0	10	CRCW120610R0JNEA	Vishay-Dale	RES, 10, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
89	R15	0	27.4k	CRCW040227K4FKED	Vishay-Dale	RES, 27.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
90	R16	0	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
91	R20	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
92	R28	0	511	CRCW0402511RFKED	Vishay-Dale	RES, 511, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
93	R32	0	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
94	R37, R38	0		RNF31206T0R00	Stackpole Electronics	0.40 0.25W 1206 Thick Film Chip Resistor AEC-Q200 compliant	1206
95	R39	0	1	CSR0402FK1R00	Stackpole Electronics Inc	RES, 1.00, 1%, 0.125 W, 0402	402

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