

Variant: 001
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PMP31139 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C4	2	10µF	8,60241E+11	Würth Electronics	10 µF 400 V Aluminum Electrolytic Capacitors Radial, Can 10000 Hrs @ 105°C	RADIAL
2	C2, C5, C8	3	220nF	890334025027RP	Würth Electronics	0.22 µF Film Capacitor 630V Polypropylene (PP), Metallized Radial	RADIAL
3	C3	1	0.1uF	B32913C5104K000	TDK	CAP, Film, 0.1 uF, 1000 V, +/- 10%, TH	26.5x7mm
4	C6, C11, R30	3	DNP	DNP	MuRata, [NoValue]	DNP	0805
5	C7	1	470µF	8,60041E+11	Würth Electronics	470 µF 35 V Aluminum Electrolytic Capacitors Radial, Can 7000 Hrs @ 105°C	RADIAL
6	C9	1	2.2uF	C3216X7R1H225K160AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
7	C10	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
8	C12	1	DNP	DNP	Panasonic	DNP	SMT Radial E
9	C13	1	47uF	GRM32ER71A476ME15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 20%, X7R, 1210	1210
10	C14	1	1uF	GRM21BR71A105KA01L	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0805	0805
11	C15, C21	2	DNP	DNP	MuRata	DNP	0603
12	C16	1	3.3uF	DNP	MuRata	CAP, CERM, 3.3 uF, 50 V, +/- 10%, X7R, 1206	1206
13	C17	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
14	C18, C19	2	2200pF	VY2222M35Y5UG6TV5	Vishay-Bccomponents	CAP, CERM, 2200 pF, X1 440 VAC/Y2 300 VAC, +/- 20%, Y5U, Body9x5mm	Body9x5mm
15	C20	1	6800pF	GRM188R71H682KA01D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603
16	C22	1	0.022uF	C0805C223K5RACTU	Kemet	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0805	0805
17	D1, D5	2	800V	DF08SA	Vishay-Semiconductor	Diode, Switching-Bridge, 800 V, 1 A, DF-S	DF-S
18	D2, D101	2	130V	SMCJ130A	Littelfuse	Diode, TVS, Uni, 220 V, 324 Vc, SMC	SMC
19	D3	1	800V	US1K-13-F	Diodes Inc.	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA
20	D4	1	200V	MBRD10200CT-13	Diodes Inc.	Diode, Schottky, 200 V, 5 A, DPAK	DPAK
21	D6	1	200V	MURS120-13-F	Diodes Inc.	Diode, Superfast Rectifier, 200 V, 1 A, SMB	SMB
22	D7	1	60V	B160B-13-F	Diodes Inc.	Diode, Schottky, 60 V, 1 A, SMB	SMB
23	F1, F2, F3	3		38311000000	Littelfuse Inc	Fuse Subminiature 1A 300V Slow Blow 2-Pin Radial Through Hole Ammo Pack	RADIAL
24	J1	1		282843-4	TE Connectivity	Terminal Block, 10.16mm, 4x1, Tin, TH	Terminal Block, 10.16mm, 4x1, TH
25	J2, J3	2		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
26	L1, L2, L3, L4	4	2200uH	7447471222	Würth Electronics	2.2 mH Shielded Drum Core, Wirewound Inductor 400 mA 2.7Ohm Max Radial, Vertical Cylinder	RADIAL
27	Q1	1			STMicroelectronics	N-Channel 1050V 4A (Tc) 110W (Tc) Through Hole TO-220	TO-220AB
28	R1, R7, R14	3	10	SP3AJT10R0	Stackpole Electronics	10 Ohms ±5% 4W Through Hole Resistor Axial Fusible, Safety Wirewound	AXIAL
29	R2, R8, R15, R21	4	10.0k	CRCW120610K0FKEAHP	Vishay-Dale	RES, 10.0 k, 1%, 0.5 W, AEC-Q200 Grade 0, 1206	1206
30	R3, R5, R9, R10, R16, R19	6	TBD	TBD	Vishay-Dale	RES, 5%, 1206	1206
31	R4, R6, R11, R17	4	1.00Meg	CRCW08051M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.125 W, 0805	0805
32	R12, R20	2	DNP	DNP	Vishay-Dale	DNP	1206
33	R13, R101	2	200	RC1210JR-07200RL	Yageo	RES, 200, 5%, 0.5 W, 1210	1210
34	R18	1	DNP	CRCW120610K0JNEA	Vishay-Dale	DNP	1206
35	R22	1	10	RC0805FR-0710RL	Yageo America	RES, 10.0, 1%, 0.125 W, 0805	0805
36	R23	1	261k	CRCW0603261KFKEA	Vishay-Dale	RES, 261 k, 1%, 0.1 W, 0603	0603
37	R24	1	6.8V	MMSZ5235B-7-F	Diodes Inc.	Diode, Zener, 6.8 V, 500 mW, SOD-123	SOD-123
38	R25	1	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	0805
39	R26	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32 k, 1%, 0.1 W, 0603	0603
40	R27	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, 0603	0603
41	R28	1	1	ERJ-6RQF1R0V	Panasonic	RES, 1.00, 1%, 0.125 W, 0805	0805
42	R29	1	56.2k	CRCW060356K2FKEA	Vishay-Dale	RES, 56.2 k, 1%, 0.1 W, 0603	0603
43	R31	1	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, 0603	0603
44	R32	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
45	R33, R37	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
46	R34	1	32.4k	CRCW060332K4FKEA	Vishay-Dale	RES, 32.4 k, 1%, 0.1 W, 0603	0603
47	R35	1	357k	CRCW0603357KFKEA	Vishay-Dale	RES, 357 k, 1%, 0.1 W, 0603	0603
48	R36	1	DNP	DNP	Vishay-Dale	RES, 1%, 0.1 W, 0603	0603
49	R38	1	44.2k	CRCW060344K2FKEA	Vishay-Dale	RES, 44.2 k, 1%, 0.1 W, 0603	0603
50	RV1, RV2, RV3	3	TBD	TBD	TDK	Varistor 275V RMS 10MM Radial, TH	10mm Radial
51	T1	1		750320239_Rev0	Würth Electronics	Transformer	PTH_XFRMR_14MM6_22MM7
52	TP2	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
53	TP3	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
54	U1	1		UCC28742DBVR	Texas Instruments	High-Efficiency Low-Cost Flyback Controller with Secondary-Side Regulation, DBV0006A (SOT-23-6)	DBV0006A
55	U2	1		FOD817ASD	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, SMT	DIP-4L Gullwing
56	U3	1		ATL431LIBQDBZR	Texas Instruments	High Bandwidth Low-Iq Programmable Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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