

PMP21549 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	2200pF	GRM21AR7E222KW01D	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 10%, X7R, 0805	0805
2	C1, C2	2	.1u	STD	STD	CAP, CERM, 630V, +/-10%, X7R, 1812	1812
3	C2, C3, C4, C5	6	0.33uF	B32922C3334K	TDK	CAP, Film, 0.33 uF, 630 V, +/- 10%, TH	B32922_14.5mm
4	C5, C6, C7	4	120uF	LLS2G121MELA	Nichicon	CAP, AL, 120 uF, 400 V, +/- 20%, TH	D25xL27mm
5	C7, C8	2	0.1uF	GRM43DR72J104KW01L	MuRata	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 1812	1812
6	C8, C9	2	1000uF	EEU-FR1V102B	Panasonic	CAP, AL, 1000 uF, 35 V, +/- 20%, 0.018 ohm, TH	D12.5xL20mm
7	C9	1	3.3uF	C2012X7R1V335K125AC	TDK	CAP, CERM, 3.3 uF, 35 V, +/- 10%, X7R, 0805	0805
8	C10	1	10uF	C3216X7R1V106K160AC	TDK	CAP, CERM, 10 uF, 35 V, +/- 10%, X7R, 1206	1206
9	C10, C11	2	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	0603
10	C11, C12	2	2200pF	DE2E3KY222MA2BM01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Radial D8x5mm	Radial D8x5mm
11	C12, C13	2	47uF	35ZLJ47MTA5X11	Rubycon	CAP, AL, 47 uF, 35 V, +/- 20%, 0.4 ohm, TH	D5xL11mm
12	C13, C14	2	0.47uF	08053D474KAT2A	AVX	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X5R, 0805	0805
13	C14, C15	2	270pF	06035A271JA12A	AVX	CAP, CERM, 270 pF, 50 V, +/- 5%, CoG/NP0, 0603	0603
14	C15, C17	2	0.47uF	0805YC474JAT2A	AVX	CAP, CERM, 0.47 uF, 16 V, +/- 5%, X7R, 0805	0805
15	C16	1	0.47uF	C1608X7R1H474K080AC	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, 0603	0603
16	C16, C18	2	0.1uF	C0603C104J3RAC	Kemet	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
17	C19, C21	2	2.2uF		MuRata	CAP, CERM, 2.2uF, 50 V, +/- 10%, X7R, 0805	0805
18	C20	1	0.022uF	C0603X223K5RACTU	Kemet	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
19	C22	1	100pF	06035A101FA12A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, CoG/NP0, 0603	0603
20	C?	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
21	C?	1	0.01uF	CL10B103KB8NCNC	Samsung Electro-Mechanics	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
22	D1	2	600V	GBU4J-BP	Micro Commercial Components	Diode, P-N-Bridge, 600 V, 4 A, TH	GBU
23	D2	2	200V	MBR20200CTTU	Fairchild Semiconductor	Diode, Schottky, 200 V, 10 A, TH	TO-220AB
24	D3	2	1000V	es1MTR	SMC Diode Solutions	Diode, Superfast Rectifier, 1000 V, 1 A, SMA	SMA
25	D4, D6, D8, D9	8	1.4V	BAS316.115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
26	D5	2	12V	MMSZ4699T1G	ON Semiconductor	Diode, Zener, 12 V, 500 mW, SOD-123	SOD-123
27	D7	2	6.8V	MMSZ5235B-7-F	Diodes Inc.	Diode, Zener, 6.8 V, 500 mW, SOD-123	SOD-123
28	H1, H2	2		634-10ABPE	Wakefield-Vette		16.26x25.4x16.26 mm
29	J1	2		770W-X2/10	Qualtek Electronics Corporation	AC Receptacle, 2.5A, R/A, TH	AC, Reception 14.5x15x22 mm
30	J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
31	L1	1	47uH	7447471470	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 47 uH, 2.5 A, 0.074 ohm, TH	11x11.5mm
32	L2	1	10mH	744824310	Würth Elektronik	Coupled inductor, 10 mH, 3 A, 0.105 ohm, TH	18.5x33x27.5 mm
33	L2	1		744841330	Würth Elektronik	Coupled inductor, 30 uH, 0.026 ohm, TH	16x7.5mm
34	L3	1	2.2mH	744823422	Würth Elektronik	Coupled inductor, 2.2 mH, 0.03 ohm, TH	13x22x17.5mm
35	L?	1	3.3mH	744834433	Würth Elektronik	Coupled inductor, 3.3 mH, 5 A, 0.037 ohm, TH	32.5x22x28mm
36	Q1, Q2	4	40 V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
37	Q3	2	800V	SPP17N80C3XKSA1	Infineon Technologies	MOSFET, N-CH, 800 V, 17 A, TO-220AB	TO-220AB
38	R1, R2, R3	4	499k	CRCW1206499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.25 W, 1206	1206
39	R2	1	20.0	CRCW251220R0FKEG	Vishay-Dale	RES, 20.0, 1%, 1 W, AEC-Q200 Grade 0, 2512	2512
40	R3, R4	2	255k	CRCW0805255KFKEA	Vishay-Dale	RES, 255 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
41	R4, R5	2	75k	CRCW251275K0JNEG	Vishay-Dale	RES, 75 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
42	R5, R6, R23	3	110k	CRCW2512110KJNEG	Vishay-Dale	RES, 110 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
43	R6, R7, R10, R11	4	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
44	R7, R8	2	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
45	R8, R9	2	0	RMCF0603ZTOR00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
46	R9, R10	2	5.11k	CRCW06035K11FKEA	Vishay-Dale	RES, 5.11 k, 1%, 0.1 W, 0603	0603
47	R11	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, 0603	0603
48	R12	1	1.07k	RT0603DRE071K07L	Yageo America	RES, 1.07 k, 0.5%, 0.1 W, 0603	0603
49	R12, R13	2	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4 k, 1%, 0.1 W, 0603	0603
50	R13, R14	2	0.1	ERJ-8BWFR100V	Panasonic	RES, 0.1, 1%, 0.5 W, 1206	1206
51	R15, R16	2	100k	CPF0603B100KE	TE Connectivity	RES, 100 k, 0.1%, 0.063 W, 0603	0603
52	R16	1	25.5k	CRCW080525K5FKEA	Vishay-Dale	RES, 25.5 k, 1%, 0.125 W, 0805	0805
53	R17	1	25.5k	RG1608P-2552-B-T5	Susumu Co Ltd	RES, 25.5 k, 0.1%, 0.1 W, 0603	0603
54	R17, R18	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
55	R20, R21	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
56	R20, R?	2	10.0k	ERJ-3EKF1002V	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0603	0603
57	R21, R22	2	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.1 W, 0603	0603
58	T1	2	1.05mH	RLT1-1260	Renco Electronics	Transformer, 1050 uH, TH	1150x1250mil
59	TP1, TP2, TP4, TP5, TP6, TP9	11	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
60	TP3, TP7, TP8, TP12	7	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
61	TP10, TP11	4	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
62	U1	2		LM5021MM-1	Texas Instruments	AC-DC Current Mode PWM Controller, 8-pin MSOP	MUA08A
63	U2	2		FOD817A	Fairchild Semiconductor	High Operating Temperature Phototransistor Optocoupler, DIP-4	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
64	U3	2		TL431AIDBZT	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
65	XF1	2	TR5	56000001009	Littelfuse	Fuse Holder, TR5, TH	TR5 Fuse Holder
66	C17, C19	0		C0603C104J3RAC	Kemet	CAP, CERM, openF, 25 V, +/- 5%, X7R, 0603	0603
67	R14, R15	0	0.1	ERJ-8BWFR100V	Panasonic	RES, 0.1, 1%, 0.5 W, 1206	1206
68	R18, R19	0	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603

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