

**PMP21618 REV A Bill of Materials**

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	330pF	GRM31A5C2J331JW01D	MuRata	CAP, CERM, 330 pF, 630 V, +/- 5%, COG/NP0, 1206	1206
2	C2	1	0.1uF	C3216X7T2W104K160AA	TDK	CAP, CERM, 0.1 uF, 450 V, +/- 10%, X7T, 1206_190	1206_190
3	C3, C4	2	330uF	EKZE350ELL331MJ16S	Chem-Con	CAP, AL, 330 uF, 35 V, +/- 20%, TH	D10xL16mm
4	C5	1	47uF	EEU-EE2G470S	Panasonic	CAP, AL, 47 uF, 40 V, +/- 20%, TH	18x20mm
5	C6, C7	2	0.1uF	890324025017	Würth Elektronik	CAP, Film, 0.1 uF, 275 V, +/- 10%, TH	18x6mm
6	C8	1	4.7uF	C2012X7R1V475K125AC	TDK	CAP, CERM, 4.7 uF, 35 V, +/- 10%, X7R, 0805	0805
7	C9	1	100pF	GRM1555C1H101JJA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
8	C10, C11	2	2.2uF	GRM155R61C225KE11D	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X5R, 0402	0402
9	C13, C14, C24, C25	4	10uF	TMK212BBJ106KG-T	Taiyo Yuden	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	0805
10	C15	1	2200pF	DE2E3KY222MA2BM01F	MuRata	CAP, CERM, 2200 pF, X1 250 VAC/Y2 250 VAC, +/- 20%, E, 8x5mm	8x5mm
11	C16, C17	2	33pF	DE21XKY330JN3AM02F	MuRata	CAP, CERM, 33 pF, X1 250 VAC/Y2 250 VAC, +/- 5%, SL, 8x5mm	8x5mm
12	C19, C22, C23	3	0.1uF	C1005X6S1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X6S, 0402	0402
13	C26	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0402	0402
14	C27	1	100pF	C0402C101J3GACTU	Kemet	CAP, CERM, 100 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
15	C28, C29	2	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	0402
16	D1	1	200V	MBRB20200CTT4G	ON Semiconductor	Diode, Schottky, 200 V, 20 A, DDDPAK	DDPAK
17	D2	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, Z4-D	Z4-D
18	D3	1	150V	SMCJ150A-TP	Micro Commercial Components	Diode, TVS, Uni, 150 V, 243 Vc, SMC	SMC
19	D4	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMA	SMA
20	D5	1	200V	BAS21-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOT-23	SOT-23
21	D7	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
22	F1	1		37211250001	Littelfuse	Fuse, 1.25 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
23	J1, J2	2		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
24	J3	1		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
25	L1	1	43uH	7447034	Würth Elektronik	Inductor, Toroid, Ferrite, 43 uH, 1 A, 0.06 ohm, TH	6.5x13mm
26	L2	1	20mH	744822120	Würth Elektronik	Coupled inductor, 20 mH, 0.54 ohm, TH	17.5x22x13 mm
27	L3	1	4.7uH	XAL4030-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 4.5 A, 0.0401 ohm, SMD	4.0x3.1x4.0mm
28	Q1	1	600V	IPD60R950C6ATMA1	Infineon Technologies	MOSFET, N-CH, 600 V, 4.4 A, DPAK	DPAK
29	Q3, Q4	2	30V	CSD17578Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 14 A, DNH0008A (VSONP-8)	DNH0008A
30	R1	1	20	CRCW120620R0JNEA	Vishay-Dale	RES, 20, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
31	R2	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R3	1	1.5Meg	CRCW08051M50JNEA	Vishay-Dale	RES, 1.5 M, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
33	R4	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
34	R5	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R6	1	110k	CRCW0402110KJNED	Vishay-Dale	RES, 110 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R7	1	681	CRCW0402681RFKED	Vishay-Dale	RES, 681, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
37	R8	1	33.2k	CRCW040233K2FKED	Vishay-Dale	RES, 33.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
38	R9	1	0.27	MCR25JZHFLR270	Rohm	RES, 0.27, 1%, 0.5 W, 1210	1210
39	R10, R22	2	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
40	R11	1	7.5	CRCW04027R50JNED	Vishay-Dale	RES, 7.5, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
41	R12	1	499	RG2012P-4990-B-T5	Susumu Co Ltd	RES, 499, 0.1%, 0.125 W, 0805	0805
42	R13	1	0.01	WSLP1206R0100FEA	Vishay-Dale	RES, 0.01, 1%, 1 W, 1206	1206
43	R14	1	430k	CRCW0402430KJNED	Vishay-Dale	RES, 430 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
44	R15	1	4.02k	CRCW04024K02FKED	Vishay-Dale	RES, 4.02 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
45	R17	1	82.5k	CRCW040282K5FKED	Vishay-Dale	RES, 82.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
46	R18	1	316k	CRCW0402316KFKED	Vishay-Dale	RES, 316 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
47	R19, R20, R21	3	10.0k	CRCW040210K0DHEDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
48	R23	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
49	T1	1	220uH	RLTI-1298	Renco Electronics	Transformer, 220 uH, TH	1400x1200mil
50	TP2, TP4	2		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
51	TP3	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
52	TP5, TP6, TP11	3		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
53	TP9, TP10	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
54	TPx1	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
55	U1	1		UCC28704DBVR-1	Texas Instruments	Off-Line Constant-Voltage Constant-Current Flyback Controller With Primary-Side Regulation (PSR), DBV0006A (SOT-23-6)	DBV0006A
56	U2	1		TLV70133DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 85 degC, Green (RoHS & no Sb/Br)	DBV0005A
57	U3	1		BQ24725ARGRT	Texas Instruments	1-4 Cell Li+ Battery SMBus Charge Controller with N-Channel Power MOSFET Selector, RGR0020A (VQFN-20)	RGR0020A
58	C12	0	1000pF	GRM31BR72J102KW01L	MuRata	CAP, CERM, 1000 pF, 630 V, +/- 10%, X7R, 1206	1206
59	R24, R25	0	0	CRCW20100000Z0EF	Vishay-Dale	RES, 0, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010

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