

PMP20195 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C2	2	220uF	400KXW220MEFC18X45	Rubycon	CAP, AL, 220 uF, 400 V, +/- 20%, TH	D18xL45mm
2	C3	1	0.1uF	GRM43DR72J104KW01L	MuRata	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 1812	1812
3	C4	1	0.1uF	B32520C3104K289	TDK	CAP, Film, 0.1 uF, 250 V, +/- 10%, TH	10x4x8.5mm
4	C5, C8, C12, C24, C101	5	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
5	C6	1	2200pF	DE2E3KY222MA2BM01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Radial D8x5mm	Radial D8x5mm
6	C7, C16	2	0.01uF	GRM21BR72E103KW03L	MuRata	CAP, CERM, 0.01 uF, 250 V, +/- 10%, X7R, 0805	0805
7	C9, C10, C13, C14	4	1000uF	EEU-FR1V102B	Panasonic	CAP, AL, 1000 uF, 35 V, +/- 20%, 0.018 ohm, TH	D12.5xL20mm
8	C11, C15	2	3.3uF	C3225X7R1H335M	TDK	CAP, CERM, 3.3 uF, 50 V, +/- 20%, X7R, 1210	1210
9	C17, C20	2	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
10	C18	1	0.1uF	C0603C104J3RAC	Kemet	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
11	C19	1	47uF	35ZLJ47MTA5X11	Rubycon	CAP, AL, 47 uF, 35 V, +/- 20%, 0.4 ohm, TH	D5xL11mm
12	C21, C25	2	1uF	0805YD105KAT2A	AVX	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0805	0805
13	C22	1	open	C0603C104J3RAC	Kemet	CAP, CERM, openF, 25 V, +/- 5%, X7R, 0603	0603
14	C23	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100 pF, 25 V, +/- 10%, X7R, 0603	0603
15	C26	1	2.2uF		MuRata	CAP, CERM, 2.2uF, 50 V, +/- 10%, X7R, 0805	0805
16	D1	1	600V	GBU4J-BP	Micro Commercial Components	Diode, P-N-Bridge, 600 V, 4 A, TH	GBU
17	D2, D6, D9, D11	4	BAT54	BAT54-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOT-23	SOT-23
18	D3, D10	2	600V	MURS160-13-F	Diodes Inc.	Diode, Ultrafast, 600 V, 1 A, SMB	SMB
19	D4, D8	2	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMA	SMA
20	D5, D7	2	300V	LQA06T300	Power Integrations	Diode, Schottky, 300 V, 6 A, TH	TO-220AC
21	D12	1	200V	BAS21-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOT-23	SOT-23
22	D13	1	6.8V	MMSZ4692-V	Vishay-Semiconductor	Diode, Zener, 6.8 V, 500 mW, SOD-123	SOD-123
23	D14, D15	2	1.4V	BAS316, 115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
24	J1	1		770W-X2/10	Qualtek Electronics Corporation	AC Receptacle, 2.5A, R/A, TH	AC, Reception 14.5x15x22 mm
25	J2, J3	2		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
26	L1	1	10uH	LPS6235-103MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 10 uH, 1.8 A, 0.1 ohm, SMD	LPS6235
27	L2	1	2.2mH	GVTM1-222LF	GCI Technologies	Coupled inductor, 2.2 mH, 6.8 A, 0.032 ohm, TH	35.56x21mm
28	L3, L4	2	2.2uH	DR74-2R2-R	Coiltronics	Inductor, Shielded Drum Core, Ferrite, 2.2 uH, 4.76 A, 0.0126 ohm, SMD	DR74
29	Q1, Q5	2	40 V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
30	Q2, Q4	2	550V	IPD50R280CE	Infineon Technologies	MOSFET, N-CH, 550 V, 13 A, DPAK	DPAK
31	Q3	1	40 V	MMBT3906-7-F	Diodes Inc.	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
32	R1, R9	2	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, 0603	0603
33	R2, R6, R8	3	49.9k	CRCW120649K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.25 W, 1206	1206
34	R3	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
35	R4, R5	2	499k	CRCW1206499KKEA	Vishay-Dale	RES, 499 k, 1%, 0.25 W, 1206	1206
36	R7	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
37	R10	1	5.11k	CRCW06035K11FKEA	Vishay-Dale	RES, 5.11 k, 1%, 0.1 W, 0603	0603
38	R11, R12	2	0.1	ERJ-8BWF100V	Panasonic	RES, 0.1, 1%, 0.5 W, 1206	1206
39	R13, R15	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
40	R14	1	21.5k	CRCW080521K5FKEA	Vishay-Dale	RES, 21.5 k, 1%, 0.125 W, 0805	0805
41	R16, R20	2	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.1 W, 0603	0603
42	R17	1	3.16k	CRCW06033K16FKEA	Vishay-Dale	RES, 3.16 k, 1%, 0.1 W, 0603	0603
43	R18	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
44	R19	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
45	R21	1	130k	CRCW0603130KFKEA	Vishay-Dale	RES, 130 k, 1%, 0.1 W, 0603	0603
46	RT1	1	5 ohm	B57213P0509M301	TDK	Thermistor NTC, 5 ohm, 20%, D14.5xT7mm	D14.5xT7mm
47	T1	1	1.8mH	PA2002NLT	Pulse Engineering	Transformer, 1.8mH, SMT	8-Pin SMD, Body 9 x 8.6 mm, Pitch 2.54 mm
48	T2	1	330uH	RLTI-1177	Renco Electronics	Transformer, 330 uH, TH	1200x1200mil
49	TP1, TP2, TP3, TP4, TP6, TP7, TP9, TP10	8	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
50	TP5	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
51	TP8, TP11	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
52	U1	1		FOD817A	Fairchild Semiconductor	High Operating Temperature Phototransistor Optocoupler, DIP-4	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
53	U2	1		LM5021MM-2	Texas Instruments	AC-DC Current Mode PWM Controller, 8-pin MSOP	MUA08A
54	U3	1		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
55	XF1	1	TR5	56000001009	Littelfuse	Fuse Holder, TR5, TH	TR5 Fuse Holder

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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