

PMP20533 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		PMP20533	Any	Printed Circuit Board	
2	C1, C2	2	33uF	EKXG401EC3330ML20S	Chemi-Con	CAP, AL, 33 uF, 400 V, +/- 20%, TH	D16xL20mm
3	C3	1	0.22uF	890324024002	Würth Elektronik	CAP, Film, 0.22 uF, 275 V, +/- 10%, TH	15x7mm
4	C4, C22	2	10uF	GRM21BR6YA106KE43L	MuRata	CAP, CERM, 10 uF, 35 V, +/- 10%, X5R, 0805	0805
5	C5, C11, C19	3	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	0402
6	C6	1	1500pF	DE2E3KY152MN3AM02	MuRata	CAP, CERM, 1500 pF, 250 V, +/- 20%, E, TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm
7	C7, C16, C26, C100	4	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
8	C8, C10, C23, C24, C25	5	22uF	GRT31CR61E22KE01L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X5R, AEC-Q200 Grade 3, 1206	1206
9	C9, C101	2	390uF	20SEPF390M	Panasonic	CAP, Aluminum Polymer, 390 uF, 20 V, +20/-0%, 0.014 ohm, TH	D8xL12mm
10	C12	1	15uF	UHE2A150MED	Nichicon	CAP, AL, 15 uF, 100 V, +/- 20%, 1.2 ohm, TH	D6.3xL11mm
11	C13	1	1000pF	GRM21AR72E102KW01D	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	0805
12	C14	1	0.27uF	GRM155R60J274KE01D	MuRata	CAP, CERM, 0.27 uF, 6.3 V, +/- 10%, X5R, 0402	0402
13	C17, C18	2	470pF	GRM155R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402	0402
14	C20	1	6800pF	GRM155R71E682KA01D	MuRata	CAP, CERM, 6800 pF, 25 V, +/- 10%, X7R, 0402	0402
15	C21	1	470pF	GRM188R72E471KW07D	MuRata	CAP, CERM, 470 pF, 250 V, +/- 10%, X7R, 0603	0603
16	D1	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, Z4-D	Z4-D
17	D2	1	150V	SMCJ150A-TP	Micro Commercial Components	Diode, TVS, Uni, 150 V, 1500 W, SMC	SMC
18	D3	1	1000V	MRA4007T3G	ON Semiconductor	Diode, Standard Recovery Rectifier, 1000 V, 1 A, AEC-Q101, SMA	SMA
19	D4	1	600V	CSFMT108-HF	Comchip Technology	Diode, Superfast Rectifier, 600 V, 1 A, 3.5x1.6mm	3.5x1.6mm
20	D5	1	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
21	D5	1	30V	NSR20F30NX5G	ON Semiconductor	Diode, Schottky, 30 V, 2 A, 2-XDFN	2-XDFN
22	D9	1	30V	BAT54ST-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-523	SOT-523
23	D100	1	100V	MMSD91411G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
24	F1	1		0443003.DR	Littelfuse	Fuse, 3 A, 250 V, SMD	FUSE 10.1x3.12x3.13mm
25	J2	1		632 723 300 011	Würth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, TH7/SMT
26	L1	1	33uH	DR73-330-R	Coiltronics	Inductor, Shielded Drum Core, Ferrite, 33 uH, 1.31 A, 0.166 ohm, SMD	DR73
27	L2	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
28	L4	1	10mH	744821110	Würth Elektronik	Coupled inductor, 10 mH, 0.7 A, 0.35 ohm, TH	15 x 18 x 7.5mm
29	N1	1		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
30	Q1	1	100 V	FCX493TA	Diodes Inc.	Transistor, NPN, 100 V, 1 A, SOT-89	SOT-89
31	Q2	1	650V	IPL60R299CP	Infineon Technologies	MOSFET, N-CH, 650 V, 11.1 A, PG-VSON-4	PG-VSON-4
32	Q4	1	30V	CSD17575Q3	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, DQG0008A	DQG0008A
33	Q6	1	150V	FDM586255	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 10 A, SON 5x6mm	SON 5x6mm
34	R1	1	4.99	CRCW08054R99FKEA	Vishay-Dale	RES, 4.99, 1%, 0.125 W, 0805	0805
35	R2	1	49.9k	CRCW120649K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.25 W, 1206	1206
36	R3	1	249k	CRCW0402249KFKED	Vishay-Dale	RES, 249 k, 1%, 0.063 W, 0402	0402
37	R4	1	1.78k	CRCW04021K78FKED	Vishay-Dale	RES, 1.78 k, 1%, 0.063 W, 0402	0402
38	R5	1	25.5k	CRCW040225K5FKED	Vishay-Dale	RES, 25.5 k, 1%, 0.063 W, 0402	0402
39	R6	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
40	R7	1	0.25	CSRN2010FKR250	Stackpole Electronics Inc	RES, 0.25, 1%, 1 W, 2010	2010
41	R8, R10, R29	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
42	R9	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, 0402	0402
43	R11	1	0.005	WSL12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 1206	1206
44	R12	1	140k	CRCW0402140KFKED	Vishay-Dale	RES, 140 k, 1%, 0.063 W, 0402	0402
45	R13	1	124k	CRCW0402124KFKED	Vishay-Dale	RES, 124 k, 1%, 0.063 W, 0402	0402
46	R14, R18, R34	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
47	R15	1	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	0402
48	R16	1	60.4k	RG2012P-6042-B-T5	Susumu Co Ltd	RES, 60.4 k, 0.1%, 0.125 W, 0805	0805
49	R20	1	86.6k	CRCW040286K6FKED	Vishay-Dale	RES, 86.6 k, 1%, 0.063 W, 0402	0402
50	R21	1	120	RG2012P-121-B-T5	Susumu Co Ltd	RES, 120, 0.1%, 0.125 W, 0805	0805
51	R22	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
52	R23	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
53	R24	1	499k	CRCW0402499KFKED	Vishay-Dale	RES, 499 k, 1%, 0.063 W, 0402	0402
54	R25	1	30.0k	RC0603FR-0730KL	Yageo	RES, 30.0 k, 1%, 0.1 W, 0603	0603
55	R26	1	402k	CRCW0402402KFKED	Vishay-Dale	RES, 402 k, 1%, 0.063 W, 0402	0402
56	R27, R31	2	150k	CRCW0402150KFKED	Vishay-Dale	RES, 150 k, 1%, 0.063 W, 0402	0402
57	R28	1	120k	ERJ-2RK1F1203X	Panasonic	RES, 120 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
58	R30	1	51.1	ERJ-8NF51R1V	Panasonic	RES, 51.1, 1%, 0.25 W, 1206	1206
59	R32	1	95.3k	CRCW040295K3FKED	Vishay-Dale	RES, 95.3 k, 1%, 0.063 W, 0402	0402
60	R33	1	37.4k	CRCW040237K4FKED	Vishay-Dale	RES, 37.4 k, 1%, 0.063 W, 0402	0402
61	R35	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
62	R100	1	3.01k	CRCW04023K01FKED	Vishay-Dale	RES, 3.01 k, 1%, 0.063 W, 0402	0402
63	T1	1	110uH	RLT1-1178	Renco Electronics	Transformer, 110 uH, TH	595x1025mil
64	TP1, TP2	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
65	TP3	1	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
66	U1	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
67	U2	1		LTV-817S	Lite-On	Optocoupler, 5 kV, 50-600% CTR, SMT	DIP-4
68	U3	1		TPS25740BRGER	Texas Instruments	USB Type-C and USB PD Source Controller, RGE0024H (VQFN-24)	RGE0024H
69	U4	1		UCC24636DBVR	Texas Instruments	SYNCHRONOUS RECTIFIER CONTROLLER WITH LOW POWER STANDBY, DBV0006A	DBV0006A
70	U5	1		ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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