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PMP20777 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	0.047uF	C2012X5R2A473K125AA	TDK	CAP, CERM, 0.047 uF, 100 V, +/- 10%, X5R, 0805	0805
2	C2	1	120uF	35SVPF120M	Panasonic	CAP, Aluminum Polymer, 120 uF, 35 V, +/- 20%, 0.018 ohm, F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm SMD	F12, SMD, 2-Leads, Body 10.5x10.5mm, Height 12.7mm
3	C3, C4, C5, C6	4	3.3uF	C3225X7R1H335K250AB	TDK	CAP, CERM, 3.3 uF, 50 V, +/- 10%, X7R, 1210	1210
4	C7	1	1uF	C1005X5R1V105K050BC	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X5R, 0402	0402
5	C8	1	1000pF	GR442QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1808	1808
6	C9	1	470pF	GRM155R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402	0402
7	C12, C13, C14, C15	4	2.2uF	C3225X5R2A225K230AB	TDK	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X5R,	
8	C16	1	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X7R, 0402	0402
9	C17	1	470pF	885012206081	Wurth Elektronik	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
10	C18	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
11	C19	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
12	C20	1	1000pF	GRM188R61H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X5R, 0603	0603
13	C100	1	1uF	C3216X7R1H105K160AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 1206	1206
14	C101	1	3300pF	CGA2B2X7R1H332K050BA	TDK	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
15	D2	1	200V	MURA120T3G	ON Semiconductor	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
16	D3	1	100V	MBRB20100CTT4G	ON Semiconductor	Diode, Schottky, 100 V, 20 A, DPAK	DDPAK
17	D4, D5	2	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
18	GND, PGND	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
19	J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
20	Q1	1	40 V	MMBT2222ALT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.6 A, SOT-23	SOT-23
21	Q2, Q3	2	200V	BSC320N20NS3 G	Infineon Technologies	MOSFET, N-CH, 200 V, 36 A, PG-TDSON-8	PG-TDSON-8
22	Q4	1	40 V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
23	R1, R2, R100	3	10k	CRCW251210K0JNEG	Vishay-Dale	RES, 10 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
24	R3	1	60.4	CRCW120660R4FKEA	Vishay-Dale	RES, 60.4, 1%, 0.25 W, 1206	1206
25	R4	1	277k	RT0805BRD07277KL	Yageo America	RES, 277 k, 0.1%, 0.125 W, 0805	0805
26	R5	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
27	R6	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
28	R7	1	0.04	WSL0805R0400FEA	Vishay-Dale	RES, 0.04, 1%, 0.125 W, 0805	0805
29	R8	1	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
30	R9	1	63.4k	CRCW040263K4FKED	Vishay-Dale	RES, 63.4 k, 1%, 0.063 W, 0402	0402
31	R10	1	6.98k	CRCW04026K98FKED	Vishay-Dale	RES, 6.98 k, 1%, 0.063 W, 0402	0402
32	R11, R13	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
33	R12	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
34	R14	1	9.76k	RG1608P-9761-B-T5	Susumu Co Ltd	RES, 9.76 k, 0.1%, 0.1 W, 0603	0603
35	R15	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
36	R101	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
37	T1	1	50uH	DCT25EFD-U32S004	TDK	Transformer, 50 uH, SMT	28x26.5mm
38	TP1	1		5008	Keystone	Test Point, Compact, Orange, TH	Orange Compact Testpoint
39	U1	1		LM5020MM-1/NOPB	Texas Instruments	100V Current Mode PWM Controller, 10-pin MSOP, Pb-Free	MUB10A
40	U2	1		VOS617A-7X001T	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	7x2.12x2.6mm
41	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
42	Vin, Vout	2		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
43	C10, C11	0	220uF	EMVH101GDA221MMN0S	Chemi-Con	CAP, AL, 220 uF, 100 V, +/- 20%, 0.16 ohm, SMD	MN0

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