

PMP20001 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		PMP20001	Any	Printed Circuit Board	
C1	1	2200pF	DE1E3KX222MA5BA01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
C2, C3	2	470uF	EEU-FM1C471	Panasonic	CAP ALUM 470UF 20% 16V RADIAL	CAPPR5-10x16
C4, C5	2	10uF	C3216X5R1C106M	TDK	CAP, CERM, 10uF, 16V, +/-20%, X5R, 1206	1206
C6	1	0.1uF	08053C104KAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0805	0805
C7, C8	2	270uF	RNE0J271MDS1	Nichicon	CAP, AL, 270 µF, 6.3 V, +/- 20%, 0.012 ohm, TH	D5xL8mm
C9, C10	2	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22 µF, 10 V, +/- 10%, X7R, 1206	1206
C11	1	6.8uF	400AX6.8M8X10.8	Rubycon	CAP ALUM 6.8UF 20% 400V RADIAL	8x11
C12	1	6.8uF	400AX6.8M8X10.8	Rubycon	CAP, AL, 6.8 µF, 400 V, +/- 20%, TH	8x11
C13	1	0.33uF	890324024003	Wurth	CAP FILM 0.33UF 10% 275VAC RAD	TH, 2-Leads, Body 15x8mm, Pin Spacing 12.5mm
C14	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C15, C19	2	1uF	C3216X7R1H105K160AB	TDK	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 1206	1206
C16	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C17	1	0.022uF	885012206091	Wurth Elektronik	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	0603
C18	1	1000pF	06031C102MAT2A	AVX	CAP, CERM, 1000pF, 100V, +/-20%, X7R, 0603	0603
C20, C21	2	220pF	DE6B3KJ221KN3A	MuRata	CAP, CERM, 220 pF, 300 V, +/- 10%, B, TH, 2- Leads, Body 8x7mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 8x7mm, Pin Spacing 7.5mm
D1	1	80V	B180B-13-F	Diodes Inc.	Diode, Schottky, 80 V, 1 A, SMB	SMB
D3	1	120V	SMAJ120A	Littelfuse	Diode, TVS, Uni, 120V, 400W, SMA	SMA
D4	1	40V	B140B-13-F	Diodes Inc.	Diode, Schottky, 40 V, 1 A, SMB	SMB
D5	1	1.15V	RH06-T	Diodes Inc.	Diode, Switching-Bridge, 600V, 0.5A, MiniDIP	MiniDIP
D6	1	1.7V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000V, 1A, SMA	SMA
D7, D12, D13	3		BAS20HT1G		DIODE SWITCH 200V 200MA SOD323	SOD-323
D8	1	56V	MMSZ5263BT1G	On Semiconductor	DIODE ZENER 43V 500MW SOD123	SOD-123
D9, D10, D11	3	110V	MMSZ5272BT3G	ON Semiconductor	Diode, Zener, 110 V, 500 mW, SOD-123	SOD-123
D14	1	13V	MMSZ5243BS-7-F	Diodes Inc.	Diode, Zener, 13 V, 200 mW, SOD-323	SOD-323
D101	1	75V	1N4448WX-TP	Micro Commercial Component	Diode, Switching, 75 V, 0.25 A, SOD-323	SOD-323
F1	1		37211000411	Littelfuse	FUSE BOARD MNT 1A 250VAC RADIAL	TR5 fuse 8.5mm DIA
L1	1	100uH	7447462101	Wurth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 100 µH, 0.8 A, 0.457 ohm, TH	D6 x 8.5mm
L2	1	4mH	744821240	Wurth Elektronik	Coupled inductor, 4 mH, 1.5 A, 0.14 ohm, TH	15 x 18 x 7.5mm
Line, TP1, TP3	3	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
Neutral, TP2, TP4	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
Q1	1	40 V	MMBT4403	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.6 A, SOT-23	SOT-23
Q2	1	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
Q3	1	650V	IPD65R600E6	Infineon	MOSFET N-CH 650V 7.3A TO252	DPAK
Q4	1	80 V	BC63916_D27Z	Fairchild	TRANS NPN 80V 1A TO-92	TO-92
R2, R12	2	2.0k	CRCW12062K00JNEA	Vishay-Dale	RES, 2.0k ohm, 5%, 0.25W, 1206	1206
R3, R4	2	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.1W, 0603	0603
R5	1	49.9	CRCW120649R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.25W, 1206	1206
R6	1	4.7	CRCW12064R70JNEA	Vishay-Dale	RES, 4.7 ohm, 5%, 0.25W, 1206	1206
R7	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603

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R8, R10, R16	3	330k	CRCW1206330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.25 W, 1206	1206
R9, R32	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R11	1	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, 0603	0603
R14	1	15	CRCW060315R0JNEA	Vishay-Dale	RES, 15 ohm, 5%, 0.1W, 0603	0603
R15, R26	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R17	1	33.2	CRCW060333R2FKEA	Vishay-Dale	RES, 33.2, 1%, 0.1 W, 0603	0603
R18	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R19	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0k ohm, 1%, 0.1W, 0603	0603
R20	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R21	1	3.24k	CRCW06033K24FKEA	Vishay-Dale	RES, 3.24 k, 1%, 0.1 W, 0603	0603
R22	1	47.5k	CRCW060347K5FKEA	Vishay-Dale	RES, 47.5 k, 1%, 0.1 W, 0603	0603
R23	1	698	CRCW0603698RFKEA	Vishay-Dale	RES, 698 ohm, 1%, 0.1W, 0603	0603
R24	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R25	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R28	1	0.82	CRM1206-FX-R820ELF	Bourns	RES, 0.82, 1%, 0.5 W, 1206	1206
R29	1	28.0k	RC0603FR-0728KL	Yageo America	RES, 28.0 k, 1%, 0.1 W, 0603	0603
R30	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R31	1	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49k ohm, 1%, 0.1W, 0603	0603
RT1	1	10 ohm	B57236S0100M000	TDK	Thermistor NTC, 10 ohm, 20%, Disc_11.5mmx6mm	Disc_11.5mmx6mm
RV1	1	300V	B72207S2301K101	TDK	Varistor, 300V, 1.75kA, 7MM Radial, TH	Varistor, TH, 7MM
T1	1	850uH	750316002 Rev01	Würth Elektronik	Transformer, 850 uH, TH	25x22.2mm
U1	1		PC817X4J000F		Opto-Isolator, 1 Channel, TH	DIP-4
U2	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U3	1		LM431ACM3/NOPB	Texas Instruments	Adjustable Precision Zener Shunt Regulator, 3-pin SOT-23	MF03A
D2	0	7.5V	1SMA5922BT3G	ON Semiconductor	Diode, Zener, 7.5 V, 1.5 W, AEC-Q101, SMA	SMA
R1, R13	0	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R27	0	0.75	CSR1206FKR750	Stackpole Electronics Inc	RES, 0.75 ohm, 1%, 0.5W, 1206	1206

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