

PMP12082 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		PMP12082	Any	Printed Circuit Board	
C1, C2, C12	3	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 μ F, 16 V, +/- 10%, X7R, 0603	0603
C4, C5, C18	3	470uF	UVY1A471MED1TD	Nichicon	CAP ALUM 470UF 20% 10V RADIAL	TH, 2-Leads, Dia 6.3mm, PinSpacing 2.5mm
C6	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 5%, X7R, 0603	0603
C7, C9	2	47uF	EEUED2W470	Panasonic	CAP, AL, 47 μ F, 450 V, +/- 20%, 0.609529 ohm, TH	18x31.5
C8	1	8200pF	C1608C0G1E822J	TDK	CAP, CERM, 8200 pF, 25 V, +/- 5%, C0G/NP0, 0603	0603
C10	1	680pF	VY2681M29Y5US63V7	Vishay	CAP CER 680PF 440VAC 20% RADIAL	10.0x8.0x14.0mm
C11	1	22uF	C3216X5R0J226K	TDK	CAP, CERM, 22 μ F, 6.3 V, +/- 20%, X5R, 1206	1206
C13	1	10uF	C3216X7R1A106M085AC	TDK	CAP, CERM, 10 μ F, 10 V, +/- 10%, X7R, 1206	1206
C14	1	100pF	GRM31A5C2J101JW01D	MuRata	CAP, CERM, 100 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
C16	1	100uF	GRM31CR60J107ME39L	MuRata	CAP, CERM, 100 μ F, 6.3 V, +/- 20%, X5R, 1206	1206
C17	1	0.01uF	0603ZC103KAT2A	AVX	CAP, CERM, 0.01 μ F, 10 V, +/- 10%, X7R, 0603	0603
C19	1	4.7uF	C0603C475K8PACTU	Kemet	CAP, CERM, 4.7 μ F, 10 V, +/- 10%, X5R, 0603	0603
C21	1	10pF	06035A100JAT2A	AVX	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C22	1	10uF	GRM31CR61E106KA12L	MuRata	CAP, CERM, 10uF, 25V, +/-10%, X5R, 1206	1206
C101	1	47uF	GRM32EC81C476ME15L	MuRata	CAP, CERM, 47 μ F, 16 V, +/- 20%, X6S, 1210	1210
C102	1	680pF	C1005C0G1E681J	TDK	CAP, CERM, 680 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
D1	1	100V	CDBC5100-G	Comchip Technology	Diode, Schottky, 100 V, 5 A, SMC	SMC
D2, D3, D4, D5, D8, D9, D10, D11	8	1000V	1N5408	Vishay-Semiconductor	Diode, Switching-Bridge, 1000 V, 3 A, TH	DO-201AD
D6, D101	2	120V	SMAJ120A	Diodes Inc.	TVS DIODE 120VWM 193VC SMA	SMA
D7	1	1.7V	S1M-13-F	Diodes Inc.	DIODE GEN PURP 1KV 1A SMA	SMA
D12	1	60V	MBRA160T3G	ON Semiconductor	Diode, Schottky, 60 V, 1 A, SMA	SMA
D13	1	12V	1SMA5927BT3G	ON Semiconductor	Diode, Zener, 12 V, 1.5 W, SMA	SMA
D14	1	100V	ES1B-13-F	Diodes Inc.	Diode, Superfast Rectifier, 100 V, 1 A, SMA	SMA
D15	1		BAS20HT1G		DIODE SWITCH 200V 200MA SOD323	SOD-323
D16	1	160V	SMBJ160A	Littelfuse Inc.	TVS DIODE 160VWM 259VC SMB	SMB
D17	1	250V	SMBJ250A	Littelfuse Inc.	TVS DIODE 250VWM 405VC DO214AA	SMB
F1, F2, F3	3		37205000001	Littelfuse	Fuse, 0.5 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
J1, J4	2		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
J2, J3, J5, J6	4		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
L1	1	10uH	744778510	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 10 μ H, 1.6 A, 0.1 ohm, SMD	6.2x3.3x5.9mm
Line1, Line2, Line3, TP1	4	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
Neutral1, TP2	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
Q1, Q2	2	620V	STD2N62K3	STMicroelectronics	MOSFET N-CH 620V 2.2A DPAK	DPAK
R2	1	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, 0603	0603
R4, R7, R8, R9	4	1.0Meg	CRCW12061M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.25 W, 1206	1206
R5	1	25.5k	CRCW060325K5FKEA	Vishay-Dale	RES, 25.5 k, 1%, 0.1 W, 0603	0603
R6, R103, R104	3	2.00k	CRCW08052K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.125 W, 0805	0805
R10, R13, R16, R101, R102	5	910k	CRCW1206910KJNEA	Vishay-Dale	RES, 910 k, 5%, 0.25 W, 1206	1206

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R11	1	100	CRCW1206100RJNEA	Vishay-Dale	RES, 100, 5%, 0.25 W, 1206	1206
R12	1	169k	CRCW0603169KFKEA	Vishay-Dale	RES, 169 k, 1%, 0.1 W, 0603	0603
R14, R17, R24, R25	4	1.5Meg	CRCW12061M50JNEA	Vishay-Dale	RES, 1.5 M, 5%, 0.25 W, 1206	1206
R15	1	61.9k	CRCW060361K9FKEA	Vishay-Dale	RES, 61.9 k, 1%, 0.1 W, 0603	0603
R19	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R20, R22	2	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
R21	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R23	1	53.6k	RG1608P-5362-B-T5	Susumu Co Ltd	RES, 53.6 k, 0.1%, 0.1 W, 0603	0603
R26	1	732	CRCW0603732RFKEA	Vishay-Dale	RES, 732, 1%, 0.1 W, 0603	0603
R27, R28	2	2.49	CRCW12062R49FKEA	Vishay-Dale	RES, 2.49, 1%, 0.25 W, 1206	1206
R29	1	20.5k	CRCW060320K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.1 W, 0603	0603
T1	1	800uH	RLTI-1168	TE Connectivity	Transformer, 800 uH, TH	805x670mil
U1	1		TPS259261DRCR	Texas Instruments	Simple 5V eFuse Protection Switches, DRC0010J	DRC0010J
U2	1		TPS560200DBVR	Texas Instruments	4.5V to 18V Input, 500mA Synchronous Step Down SWIFT Converter with Advanced Eco-mode, DBV0005A	DBV0005A
U3	1		UCC28701DBVR	Texas Instruments	Constant-Voltage, Constant-Current Controller With Primary-Side Regulation, DBV0006A	DBV0006A
U4	1		TLV1117-33IDCY	Texas Instruments	FIXED LOW-DROPOUT VOLTAGE REGULATOR, DCY0003A	DCY0003A
C3	0	1000pF	06031C102JAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 5%, X7R, 0603	0603
C15, C20	0	47pF	GRM31A7U3A470JW31D	MuRata	CAP, CERM, 47 pF, 1000 V, +/- 5%, U2J, 1206	1206
R1	0	1.00k	CRCW08051K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.125 W, 0805	0805
R3	0	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, 0603	0603
R18	0	82.5k	CRCW060382K5FKEA	Vishay-Dale	RES, 82.5 k, 1%, 0.1 W, 0603	0603

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