

PMP10164 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		PMP10164	Any	Printed Circuit Board	
C1	1	2200pF	C3216X7R2J222K	TDK	CAP, CERM, 2200 pF, 630 V, +/- 10%, X7R, 1206	1206
C2, C3	2	22uF	EKXG401ELL220MK20S	Chemi-Con	CAP, AL, 22 uF, 400 V, +/- 20%, TH	12.5x20mm
C4	1	1000 uF	EKZM160ELL102MJ16S	Nippon Chemi-con	Capacitor, Alum Electrolytic 16 V, ±20%	10.00 mm Dia
C5, C6	2	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C7	1	10uF	C3225X7R1E106M	TDK	CAP, CERM, 10 uF, 25 V, +/- 20%, X7R, 1210	1210
C8, C9	2	0.22 uF	ECQU2A224ML	Panasonic	Capacitor, Poly Film, 250/275VAC, ±20%	0.690 x 0.315 inch
C10	1	2.2uF	C2012X5R1H225K125AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X5R, 0805	0805
C13, C15	2	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
C14	1	0.22uF	C1608X7R1C224K	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0603	0603
C16	1	470pF	C1608C0G1H471J	TDK	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C17	1	5600pF	C1608C0G1E562J	TDK	CAP, CERM, 5600 pF, 25 V, +/- 5%, C0G/NP0, 0603	0603
C18, C21	2	1000pF	C1608C0G1H102J	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C19	1	0.022uF	C1608X7R1H223K	TDK	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
C20	1	220pF	C1608C0G1H221J	TDK	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C23	1	2.2uF	C2012X7R1C225K	TDK	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0805	0805
C24	1	3300pF	DE1E3KX332MA5BA01	MuRata	CAP CER 3300PF 250VAC 20% RADIAL, X1Y1	Radial, Disc, 0.472" Dia (12.00mm)
C100	1	10uF	EEE-FC1H100P	Panasonic	CAP, AL, 10 uF, 50 V, +/- 20%, 2 ohm, SMD	SMT Radial D
D1	1	KBP06G	KBP06G	Diodes Inc.	Diode, Switching-Bridge, 600 V, 1.5 A, TH	Diode Bridge
D2	1	BAS21-7-F	BAS21-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOT-23	SOT-23
D4	1	MURA160T3G	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
D6	1	BAS40-04-7-F	BAS40-04-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.2 A, SOT-23	SOT-23
D100	1	12V	BZX384-C12,115	NXP Semiconductor	Diode, Zener, 12 V, 300 mW, SOD-323	SOD-323
D101	1	150V	SMBJ150A-13-F	Diodes Inc.	Diode, TVS, Uni, 150 V, 600 W, SMB	SMB
L1	1	470uH	744743471	Würth Elektronik eiSos	Inductor, Wirewound, Ferrite, 470 uH, 0.8 A, 1.1 ohm, TH	2-Pin Radial Leaded, Dia 8 mm, Height 12.5 mm, Pin Spacing 5 mm
L2	1	820nH	74404300082	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Metal Composite, 820 nH, 3.5 A, 0.014 ohm, SMD	WE-TPC-M2
L3	1	10mH	744822110	Würth Elektronik eiSos	Coupled inductor, 10 mH, 1 A, 0.36 ohm, +/- 30%, TH	14.7x13mm
Q1	1	IPA60R950C6	IPA60R950C6	Infineon Technologies	MOSFET, N-CH, 650 V, 16 A, TO-220AB	TO-220-FullPack
Q2	1	CSD19533Q5A	CSD19533Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 13 A, SON 5x6mm	SON 5x6mm
Q3	1	MMBT2907A	MMBT2907A	Fairchild Semiconductor	Transistor, PNP, 60 V, 0.8 A, SOT-23	SOT-23
Q4	1	MMBT3904	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
R2, R5	2	475k	CRCW1206475KFKEA	Vishay-Dale	RES, 475 k, 1%, 0.25 W, 1206	1206
R3	1	2.2	CRCW08052R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.125 W, 0805	0805
R4, R7, R100	3	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R6	1	422k	CRCW0603422KFKEA	Vishay-Dale	RES, 422 k, 1%, 0.1 W, 0603	0603
R8	1	475	CRCW0603475RFKEA	Vishay-Dale	RES, 475, 1%, 0.1 W, 0603	0603
R9	1	301k	CRCW0603301KFKEA	Vishay-Dale	RES, 301 k, 1%, 0.1 W, 0603	0603
R11	1	27.4k	CRCW060327K4FKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, 0603	0603
R12	1	0.47	ERJ-6RQFR47V	Panasonic	RES, 0.47, 1%, 0.125 W, 0805	0805
R14	1	37.4k	CRCW060337K4FKEA	Vishay-Dale	RES, 37.4 k, 1%, 0.1 W, 0603	0603
R15, R21, R22, R29	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603

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R16	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R17	1	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R18	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R19, R27	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R20, R24, R101	3	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R23	1	32.4k	CRCW060332K4FKEA	Vishay-Dale	RES, 32.4 k, 1%, 0.1 W, 0603	0603
R26	1	18.2k	CRCW060318K2FKEA	Vishay-Dale	RES, 18.2 k, 1%, 0.1 W, 0603	0603
RT1	1	4.70 ohm	B57153S0479M000	EPCOS Inc	Thermistor NTC, 4.70 ohm, 20%, 8.5mm Disc	8.5mm Disc
RV1	1	275V	S10K275E2	EPCOS Inc	Varistor 275V RMS 10MM Radial, TH	10mm Radial
T1	1	300 uH	750811226	Würth Elektronik eiSos	Transformer, 300 uH, TH	25x22.2mm
TP1, TP2	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP4	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP5	1	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1	LM5021MMX-2	LM5021MMX-2	Texas Instruments	AC-DC Current Mode PWM Controller, DGK0008A	DGK0008A
U2	1	UCC24630DBV	UCC24630DBV	Texas Instruments	SYNCHRONOUS RECTIFIER CONTROLLER WITH LOW POWER STANDBY, DBV0006A	DBV0006A
U3, U100	2	TCMT1107	TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75kV RMS, SMT	SOP-4
U4	1	TL431AIDBZ	TL431AIDBZ	Texas Instruments	PRECISION PROGRAMMABLE REFERENCE,	DBZ0003A

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