

PMP10195 REV E Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3, C4	4	0.022uF	C1210C223KFRACTU	Kemet	CAP, CERM, 0.022uF, 1500V, +/-10%, X7R, 1210	1210
C5, C6	2	47pF	GRM31A7U3A470JW31D	MuRata	CAP, CERM, 47 pF, 1000 V, +/- 5%, U2J, 1206	1206
C7	1	1uF	C2012X7R1H105K125AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
C8, C9	2	100uF	50ZLJ100MT78X11.5	Rubycon	CAP, AL, 100 uF, 50 V, +/- 20%, 0.12 ohm, TH	CAP, 8x11.5mm
C10	1	1000pF	GA342DR7GF102KW02L	Vishay-Vitramon	CAP, CERM, Safety,1000pF, 250V, +/-10%, X1Y2, 1808	1808
C11	1	1uF	C1608X5R1E105K080AC	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0603	0603
C12, C14	2	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C13	1	0.33uF	C0603C334K4RACTU	Kemet	CAP, CERM, 0.33uF, 16V, +/-10%, X7R, 0603	0603
C15	1	22uF	EEE-FC1H220P	Panasonic	CAP, AL, 22 uF, 50 V, +/- 20%, 0.7 ohm, SMD	SMT Radial E
C16, C18	2	0.1uF	C1608X7R1E104K	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C19	1	0.22uF	C1608X7R1C224K	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0603	0603
C100	1	680pF	C1608C0G1H681J	TDK	CAP, CERM, 680 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
D1	1	110V	SMAJ110A	MDE Semiconductors	Diode, TVS, Uni, 110V, 400W, SMA	SMA
D2, D3, D4, D5, D13, D14, D15, D16	8	BYG10Y	BYG10Y	Vishay-Semiconductor	Diode, Fast Rectifier, 1600 V, 1.5 A, SMA	SMA
D6	1	SF1600	SF1600	Vishay	Diode, Ultrafast, 1600 V, 1 A, TH	SOD-57
D7, D8	2	300V	SMAJ300A	Littelfuse	Diode, TVS, Uni, 300 V, 400 W, SMA	SMA
D9, D12	2	STTH1R06A	STTH1R06A	STMicroelectronics	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
D11, D18, D21	3	BAV21W	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200V, 0.2A, SOD-123	SOD-123
D17, D19	2	15V	MMSZ5245BS-7-F	Diodes Inc.	Diode, Zener, 15 V, 200 mW, SOD-323	SOD-323
D20	1	24V	MMSZ5252BS-7-F	Diodes Inc.	Diode, Zener, 24 V, 200 mW, SOD-323	SOD-323
L1	1	10uH	NLC453232T-100K-PF	TDK	Inductor, Wirewound, Ferrite, 10 uH, 0.55 A, 0.5 ohm, SMD	4.5x3.2x3.2mm
Q1, Q2	2	IPD80R2K8CE	IPD80R2K8CE	Infineon Technologies	MOSFET, N-CH, 800 V, 6 A, DPAK	DPAK
Q3	1	STP3N150	STP3N150	STMicroelectronics	MOSFET, N-CH, 1500 V, 2.5 A, TO-220AB	TO-220AB
Q4	1	BSS138W-7-F	BSS138W-7-F	Diodes Inc.	MOSFET, N-CH, 50 V, 0.2 A, SOT-323	SOT-323
R1, R2, R4, R15, R19, R21, R24, R27	8	1.00Meg	ERJ14NF1004U	Panasonic	RES, 1.00 M, 1%, 0.25 W, 1210	1210
R3	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R11	1	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R12, R13, R23	3	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0 ohm, 1%, 0.1W, 0603	0603
R14	1	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R16, R20, R22, R25	4	470	CRCW2010470RJNEF	Vishay-Dale	RES, 470, 5%, 0.75 W, 2010	2010
R17	1	28.0k	CRCW060328K0FKEA	Vishay-Dale	RES, 28.0 k, 1%, 0.1 W, 0603	0603
R18	1	22.6k	CRCW060322K6FKEA	Vishay-Dale	RES, 22.6 k, 1%, 0.1 W, 0603	0603
R26	1	2.21k	CRCW06032K21FKEA	Vishay-Dale	RES, 2.21 k, 1%, 0.1 W, 0603	0603
R28	1	4.75k	CRCW06034K75FKEA	Vishay-Dale	RES, 4.75 k, 1%, 0.1 W, 0603	0603
R29	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R30	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32 k, 1%, 0.1 W, 0603	0603
R31	1	1.65	CRCW08051R65FKEA	Vishay-Dale	RES, 1.65, 1%, 0.125 W, 0805	0805
R32	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R100	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
RF1, RF2, RF3, RF4	4	10	FKN1WSJR-52-10R	Yageo America	RES, 10, 5%, 1 W, Axial resistor	Axial resistor

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
RV1, RV2, RV3, RV4	4	460V	B72205S0461K101	TDK	Varistor, 460V, 1.75kA, 7MM Radial, TH	Varistor, TH, 7MM
T1	1	2.8 mH	EFD15R150-S525	GCI Technologies	Transformer, 2789 uH, TH	16.8x15.8mm
TP1, TP2, TP3, TP5	4	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP4	1	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP6	1	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1	LM5020MM-2	LM5020MM-2	Texas Instruments	100V Current Mode PWM Controller, 10-pin MSOP	MUB10A

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