

PMP10395 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP10395	Any	Printed Circuit Board	
C1, C15, C18, C19, C20, C28	6	0.1uF	C1005X7R1H104M	TDK	CAP, CERM, 0.1uF, 50V, +/-20%, C0G/NP0, 0402	0402
C2	1	1000pF	STD	STD	CAP, CERM, 1000pF, 3kV, 1808	1808
C3, C4, C5, C6, C7, C8, C9, C11	8	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210
C10, C13, C17, C24, C100, C101	6	47uF	GRM32ER61C476ME15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 20%, X5R, 1210	1210
C12	1	560uF	16SVPF560M	Panasonic	CAP, AL, 560 uF, 16 V, +/- 20%, 0.014 ohm, SMD	2-Pin SMD, Body 8.3 x 8.3 mm, Height 12 mm
C14	1	0.47uF	GRM31MR72A474KA35L	MuRata	CAP, CERM, 0.47 uF, 100 V, +/- 10%, X7R, 1206	1206
C16	1	0.047uF	C2012X7R2A473K	TDK	CAP, CERM, 0.047uF, 100V, +/-10%, X7R, 0805	0805
C21	1	220uF	EEE-FK1C221XP	Panasonic	CAP, AL, 220uF, 16V, +/-20%, 0.34 ohm, SMD	SMT Radial D8
C22	1	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	0402
C23	1	0.22uF	GRM155R61A224KE19D	MuRata	CAP, CERM, 0.22uF, 10V, +/-10%, X5R, 0402	0402
C25	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0402	0402
C26, C30, R21, R27	4	DNP	N/A	N/A	Do Not Populate	0402
C27	1	0.022uF	GRM155R71E223KA61D	MuRata	CAP, CERM, 0.022 uF, 25 V, +/- 10%, X7R, 0402	0402
C29	1	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	0402
C31	1	0.47uF	GRM155R61C474KE01	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X5R, 0402	0402
C32	1	1000pF	C1005X7R1H102K	TDK	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0402	0402
C33	1	10uF	C2012X5R1E106K125AB	TDK	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	0805
D1, D2, D8, D9, D13	5	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D3	1	100V	US1B-13-F	Diodes Inc.	Diode, Ultrafast, 100V, 1A, SMA	SMA
D4	1	1.25V	BAV21W-7-F	Diodes Inc.	Diode, Switching, 200V, 0.2A, SOD-123	SOD-123
D5, D6, D7, D10, D11	5	1.4V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D12	1	5.6V	MMSZ4690T1G	ON Semiconductor	Diode, Zener, 5.6V, 500 mW, SOD-123	SOD-123
J1, J2	2		691214310002	Wurth Elektronik eiSos	Terminal Block, 2x1, 3.81mm, 24-16 AWG, 10A, 300VAC, TH	2x1 Terminal Block
L1	1	2.2uH	PG1083.222NL	Pulse Engineering	Inductor, Wirewound, Ferrite, 2.2uH, 34A, 0.0018 ohm, SMD	21.7x12.5x21.5mm
L2	1	1mH	PG0087.105NLT	Pulse Engineering	Inductor, Shielded Drum Core, 1mH, 0.06A, 11.655 ohm, SMD	SMD, 2-Leads, Body 6.2x6.2mm
Q1, Q2, Q5, Q7	4	60V	CSD18540Q5B	Texas Instruments	MOSFET, N-CH, 60V, 28A, SON 5x6mm	SON 5x6mm
Q3	1	-150V	IRF6216TRPBF	International Rectifier	MOSFET, P-CH, -150V, -2.2A, SO-8	SO-8
Q4, Q6	2	150V	FDMS86255	Fairchild Semiconductor	MOSFET, N-CH, 150V, 10A, SON 5x6mm	SON 5x6mm
Q8	1	0.5V	BCX5616TA	Diodes Inc.	Transistor, NPN, 80V, 1A, SOT-89	SOT-89
R1	1	5.1k	CRCW08055K10JNEA	Vishay-Dale	RES, 5.1k ohm, 5%, 0.125W, 0805	0805
R2, R8, R13, R14	4	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R3	1	0.1	ERJ-6RSJR10V	Panasonic	RES, 0.1 ohm, 5%, 0.125W, 0805	0805
R4, R6, R11, R24, R28	5	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
R5	1	1.3	RC0805JR-071R3L	Yageo America	RES, 1.3 ohm, 5%, 0.125W, 0805	0805
R7	1	3.01k	CRCW12063K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.25 W, 1206	1206
R9	1	1.50k	CRCW08051K50FKEA	Vishay-Dale	RES, 1.50k ohm, 1%, 0.125W, 0805	0805

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R10, R26	2	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00k ohm, 1%, 0.063W, 0402	0402
R12	1	63.4k	CRCW040263K4FKED	Vishay-Dale	RES, 63.4 k, 1%, 0.063 W, 0402	0402
R15	1	75.0k	CRCW040275K0FKED	Vishay-Dale	RES, 75.0 k, 1%, 0.063 W, 0402	0402
R17	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
R19	1	105k	CRCW0402105KFKED	Vishay-Dale	RES, 105 k, 1%, 0.063 W, 0402	0402
R20, R25	2	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, 0402	0402
R22	1	69.8k	CRCW040269K8FKED	Vishay-Dale	RES, 69.8 k, 1%, 0.063 W, 0402	0402
R29	1	2.61k	CRCW04022K61FKED	Vishay-Dale	RES, 2.61k ohm, 1%, 0.063W, 0402	0402
T1	1	60 uH	PA4225NL	Pulse Engineering	Transformer, 60 uH, SMT	Transformer, 60 uH, SMT
T2	1		PA1005.100NL	Pulse Engineering	SMT Current Sense Tranformer	P82xx
TP1, TP2	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP4	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1, U3, U4	3		UCC27511DBV	Texas Instruments	Single-Channel High-Speed Low-Side Gate Driver (with 4-A Peak Source and 8-A Peak Sink), DBV0006A	DBV0006A
U2	1		TLVH431AIDBZT	Texas Instruments	Low-Voltage Adjustable Precision Shunt Regulator, 80 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U5	1		UCC2897ARGPR	Texas Instruments	Advanced Active Clamp PWM Controller with Current Control, -40 to +125 degC, 20-pin QFN (RGP), Green (RoHS & no Sb/Br)	RGP0020D
U6	1		VOS617A-7X001T	Vishay-Semiconductor	OptoCoupler, Phototransitor, 80-160%, SSOP-4	7x2.12x2.6mm

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