

## PMP11196 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I/PCB	1		PMP11196	Any	Printed Circuit Board	
AGND, VIN_RTN, VOUT_RTN	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
BODE_1, Fault, Load_Clock, TP9, VIN, VOUT	6	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
BODE_2, PGOOD	2	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
C1, C5, C35, C36	4	10uF	C3225X7R1E106M	TDK	CAP, CERM, 10uF, 25V, +/-20%, X7R, 1210	1210
C2, C3	2	470uF	35ZL470MEFC10X20	Rubycon	CAP, AL, 470uF, 35V, +/-20%, TH	10x20
C4, C48	2	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	0402
C6, C7, C38, C39	4	10uF	GRM31CR61E106KA12L	MuRata	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 1206	1206
C8, C40	2	1500pF	GRM188R71H152KA01D	MuRata	CAP, CERM, 1500pF, 50V, +/-10%, X7R, 0603	0603
C9	1	1500pF	GRM155R71H152KA01D	MuRata	CAP, CERM, 1500pF, 50V, +/-10%, X7R, 0402	0402
C10	1	2200pF	C1005X7R1H222K	TDK	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0402	0402
C11, C12, C13, C28, C41, C42, C44, C50, C100, C101, C102, C103	12	0.1uF	C1005X7R1H104M	TDK	CAP, CERM, 0.1uF, 50V, +/-20%, X7R, 0402	0402
C14	1	22pF	GRM1555C1H220JA01D	MuRata	CAP, CERM, 22pF, 50V, +/-5%, C0G/NP0, 0402	0402
C15, C45	2	0.47uF	GRM155R60J474KE19D	MuRata	CAP, CERM, 0.47uF, 6.3V, +/-10%, X5R, 0402	0402
C16, C43	2	1000pF	GRM155R71H102KA01D	MuRata	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0402	0402
C17, C46	2	0.01uF	C1005X7R1E103K	TDK	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0402	0402
C18, C47	2	4.7uF	GRM21BR61C475KA88L	MuRata	CAP, CERM, 4.7uF, 16V, +/-10%, X5R, 0805	0805
C19, C20, C21, C22	4	470uF	EEFSX0E471ER	Panasonic	CAP, Polymer, 470 µF, 2.5 V, +/- 20%, 9 ohm, 7.3x1.8x4.3mm SMD	7.3x1.8x4.3mm
C23, C24, C25, C26	0	DNP	EEFSX0E471ER	Panasonic	CAP, Polymer, 470 µF, 2.5 V, +/- 20%, 9 ohm, 7.3x1.8x4.3mm SMD	7.3x1.8x4.3mm
C27, C33, C34, C49, C104	5	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	0402
C30, C32	2	100uF	C1210C107M9PACTU	Kemet	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	1210
C31	0	DNP	C1210C107M9PACTU	Kemet	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	1210
C37	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
Communications	1		N2510-6002-RB	3M	Header (shrouded), 100mil, 5x2, High-Temperature, Gold, TH	5x2 Shrouded header
D100, D102	2	30V	MBR0530T1G	ON Semiconductor	Diode, Schottky, 30V, 0.5A, SOD-123	SOD-123
D101	1	30V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D103	1	Red	LTST-C170KRKT	Lite-On	LED, Red, SMD	LED_0805
dyn_load_en, SYNC	2		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
ENABLE	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
J1	1		ED120/4DS	On-Shore Technology	Terminal Block, 4x1, 5.08mm, TH	TERM_BLK, 4pos, 5.08mm
J2	1		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
J3, J6	2	50A	CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY

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L1, L2	2	330nH	VLB10090HT-R33K-B2	TDK	Inductor, Ferrite, 330 nH, 32.8 A, 0.00033 ohm, SMD	SMD, 2-Leads, Body 10.2x10mm
PH_1, PH_2	2	SMT	5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
pwr_gnd1, pwr_gnd2	2	SMT	5016	Keystone	Test Point, Compact, SMT	Testpoint_Keystone_Compact
Q1, Q2	2	40 V	MMBT3904T-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-523	SOT-523
Q100	1	25V	CSD16556Q5B	Texas Instruments	MOSFET, N-CH, 25V, 40A, SON 5x6mm	SON 5x6mm
R1, R28, R61, R68	4	2.2	CRCW12062R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.25 W, 1206	1206
R2	1	51	CRCW040251R0JNED	Vishay-Dale	RES, 51 ohm, 5%, 0.063W, 0402	0402
R3	1	2.80k	CRCW04022K80FKED	Vishay-Dale	RES, 2.80k ohm, 1%, 0.063W, 0402	0402
R4, R18, R19, R31, R46, R107	6	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
R5	1	12.1k	CRCW040212K1FKED	Vishay-Dale	RES, 12.1k ohm, 1%, 0.063W, 0402	0402
R6	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0k ohm, 1%, 0.063W, 0402	0402
R7, R9, R23	3	10	CRCW040210R0JNED	Vishay-Dale	RES, 10 ohm, 5%, 0.063W, 0402	0402
R8, R34	2	3.01k	CRCW04023K01FKED	Vishay-Dale	RES, 3.01k ohm, 1%, 0.063W, 0402	0402
R10, R39	2	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00k ohm, 1%, 0.063W, 0402	0402
R13, R43	0	DNP				0402
R11, R40	2	5.1	CRCW04025R10JNED	Vishay-Dale	RES, 5.1 ohm, 5%, 0.063W, 0402	0402
R12, R16, R22, R27, R29, R30, R32, R33, R37, R38, R41, R42	12	0	RC0402JR-070RL	Yageo America	RES, 0 ohm, 5%, 0.063W, 0402	0402
R15, R45	2	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0k ohm, 1%, 0.063W, 0402	0402
R17	1	66.5k	CRCW040266K5FKED	Vishay-Dale	RES, 66.5k ohm, 1%, 0.063W, 0402	0402
R20, R47	2	2.2	CRCW04022R20JNED	Vishay-Dale	RES, 2.2 ohm, 5%, 0.063W, 0402	0402
R21, R48	2	7.50k	CRCW04027K50FKED	Vishay-Dale	RES, 7.50k ohm, 1%, 0.063W, 0402	0402
R25, R26, R49, R50	4	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49k ohm, 1%, 0.063W, 0402	0402
R35	1	37.4k	CRCW040237K4FKED	Vishay-Dale	RES, 37.4k ohm, 1%, 0.063W, 0402	0402
R36	1	8.45k	CRCW04028K45FKED	Vishay-Dale	RES, 8.45k ohm, 1%, 0.063W, 0402	0402
R100, R101, R102	3	0.01	PMR100HZPFU10L0	Rohm	RES, 0.01, 1%, 2 W, 2512	2512
R104	1	8.06k	CRCW04028K06FKED	Vishay-Dale	RES, 8.06k ohm, 1%, 0.063W, 0402	0402
R108, R110	2	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00k ohm, 1%, 0.063W, 0402	0402
R109	1	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200k ohm, 1%, 0.063W, 0402	0402
R111	1	0.005	PMR100HZPFU5L00	Rohm	RES, 0.005, 1%, 2 W, 2512	2512
R113	1	330	CRCW0402330RJNED	Vishay-Dale	RES, 330 ohm, 5%, 0.063W, 0402	0402
U1	1		TPS40425RHAR	Texas Instruments	Dual output, 2-Phase, Stackable PMBUS Synchronous Buck Driverless Controller with AVS Bus, RHA0040B	RHA0040B
U2, U3	2		UCD74120RVFR	Texas Instruments	High-Current, Synchronous Buck Power Stage, RVF0040A	RVF0040A
U100	1		TLC555CD	Texas Instruments	LinCMOS Timer, D0008A	D0008A
U101	1		UCC27324D	Texas Instruments	DUAL 4-A PEAK HIGH SPEED LOW- SIDE POWER MOSFET DRIVERS, D0008A	D0008A
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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