

## PMP23320 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB201	1		PMP23320	Any	Printed Circuit Board	
C103, C104	2	100uF	100YXJ100M10X20	Rubycon	CAP, AL, 100 uF, 100 V, +/- 20%, 0.12 ohm, TH	10x20mm
C105, C106, C107, C108, C109, C110, C111, C112, C401	9	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C113, C114, C115, C116	4	0.22uF	GRM32DR72E224KW01L	MuRata	CAP, CERM, 0.22 uF, 250 V, +/- 10%, X7R, 1210	1210
C121, C123	2	12uF	126AVG160MGBJ	Illinois Capacitor	CAP, Aluminum Polymer, 12 uF, 160 V, +/- 20%, 16.5786 ohm, TH	D10xL12mm
C125, C126	2	220µF	UCS2C221MHD1TN	Nichicon	220 µF 160 V Aluminum Electrolytic Capacitors Radial, Can - 10000 Hrs @ 105°C	RADIAL
C201, C214, C215	3	4.7uF	GCM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C202, C212, C213	3	0.47uF	GCM188R71C474KA55D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C203, C208, C402	3	0.1uF	GCM188R71E104KA57D	MuRata	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C204	1	0.33uF	GRM188R71C334KA01D	MuRata	CAP, CERM, 0.33 uF, 16 V, +/- 10%, X7R, 0603	0603
C206	1	3300pF	GRM188R71E332KA01D	MuRata	CAP, CERM, 3300 pF, 25 V, +/- 10%, X7R, 0603	0603
C207, C404, C405	3	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	0805
C209	1	1uF	GCM188R71C105KA64J	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C210, C211	2	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C403	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
D101, D102	2		C6D10065A	Cree	Diode Silicon Carbide Schottky 650V 37A (DC) Through Hole TO-220-2	TO220-2
D401	1	100V	MURA110T3G	ON Semiconductor	Diode, Ultrafast, 100 V, 2 A, SMA	SMA
H101, H102	2		513002B02500G	Aavid		
H103, H104	2		V7700W	Assman WSW	Heatsink SOT-32, TO-220	ASMN V7700W
H201, H202, H203, H204	4		4824	Keystone	HEX STANDOFF 6-32 NYLON 1-1/2"	HEX STANDOFF 6-32 NYLON 1-1/2 inch
J101, J102	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
L401	1	100uH	744053101	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 100 uH, 0.45 A, 0.36 ohm, SMD	WE-TPC-LH
Q101, Q102, Q103, Q104	4		IPP320N20N3GXKSA1	Infineon	MOSFET N-Channel 200 V 34A (Tc) 136W (Tc) Through Hole PG-TO220-3	TO220
R107, R108, R113, R114	4	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R109, R110	2	0.005	CSRF2512FT5L00	Stackpole Electronics Inc	RES, 0.005, 1%, 2 W, 2512	2512
R111, R112, R201	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R202	1	64.9k	CRCW060364K9FKEA	Vishay-Dale	RES, 64.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R203, R204, R213, R404	4	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R206	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R208	1	10	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R209	1	226k	CRCW1206226KFKEA	Vishay-Dale	RES, 226 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206

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R210	1	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R211, R214, R217, R219, R222, R223, R224, R225, R226	9	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R212, R221	2	36.5k	CRCW060336K5FKEA	Vishay-Dale	RES, 36.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R215, R216	2	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R401	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R402	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R403	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
T101, T102	2		750320352	Würth Electronics	TRANSFORMER	PTH8_23MM5_26MM3
TP201	1		5002	Keystone Electronics	Test Point, Miniature, White, TH	White Miniature Testpoint
TP202	1		5001	Keystone Electronics	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP203	1		5003	Keystone Electronics	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
TP204	1		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP205	1		5014	Keystone Electronics	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
TP206	1		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U201	1		TL432BQDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U202	1		SN74LV1T04DBVR	Texas Instruments	Single Power Supply INVERTER Gate logic level shifter, DBV0005A (SOT-23-5)	DBV0005A
U203, U204	2		LM5122MHX/NOPB	Texas Instruments	3-65V Wide Vin, Current Mode Synchronous Boost Controller with Multiphase Capability, PWP0020A (HTSSOP-20)	PWP0020A
U401	1		LM5007MM	Texas Instruments	9-75V Wide Vin, 500mA Constant On-Time Non-Synchronous Buck Regulator, DGK0008A (VSSOP-8)	DGK0008A
C205	0	1000pF	GCM1885C2A102JA16D	MuRata	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
R205	0	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R207	0	100k	CRCW1206100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R218, R220	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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