

## PMP30101 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
C2	1	0.022uF	GRM155R71E223KA61D	MuRata	CAP, CERM, 0.022 µF, 25 V, +/- 10%, X7R, 0402	0402
C3	1	220pF	GRM155R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	0402
C4	1	3900pF	GRM155R71H392KA01D	MuRata	CAP, CERM, 3900 pF, 50 V, +/- 10%, X7R, 0402	0402
C5	1	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C6, C7	2	1000pF	GRM155R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0402	0402
C8	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	0805
C9	1	0.47uF	GRM21BR72A474KA73L	MuRata	CAP, CERM, 0.47 µF, 100 V, +/- 10%, X7R, 0805	0805
C10	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
C11, C12, C14, C15	4	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
C13	1	1500pF	GRM188R72A152KA01D	MuRata	CAP, CERM, 1500 pF, 100 V, +/- 10%, X7R, 0603	0603
C16, C16a, C21, C21a	4	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 10%, X7R, 1210	1210
C17, C19	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C18	1	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X7R, 0603	0603
C20	1	100uF	EEHZC1H101P	Panasonic	CAP, Polymer Hybrid, 100 µF, 50 V, +/- 20%, 28 ohm, 10x10 SMD	10x10
C101	1	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
D1	1	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
D101	1	6.8V	MMSZ5235BS-7-F	Diodes Inc.	Diode, Zener, 6.8 V, 200 mW, SOD-323	SOD-323
J1	1	ED120/2DS	ED120/2DS	OST	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch
J2	1		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
L1	1	10uH	7443631000	Würth Elektronik	Inductor, Shielded Drum Core, Mn-Zn, 10 µH, 16 A, 0.00796 ohm, SMD	21.8x14.5x21.5mm
L2	1	1.0uH	7443340100	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 1.0 µH, 17 A, 0.0036 ohm, SMD	WE-HCC-8X7
Q1, Q2	2	40V	BSC059N04LS G	Infineon Technologies	MOSFET, N-CH, 40 V, 73 A, PG-TDSON-8	PG-TDSON-8
R1	1	31.6k	CRCW040231K6FKED	Vishay-Dale	RES, 31.6 k, 1%, 0.063 W, 0402	0402
R2	1	1.37k	CRCW04021K37FKED	Vishay-Dale	RES, 1.37 k, 1%, 0.063 W, 0402	0402
R3	1	1.87k	CRCW04021K87FKED	Vishay-Dale	RES, 1.87 k, 1%, 0.063 W, 0402	0402
R4	1	1.50Meg	CRCW06031M50FKEA	Vishay-Dale	RES, 1.50 M, 1%, 0.1 W, 0603	0603
R5	1	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00 M, 1%, 0.063 W, 0402	0402
R6, R10, R11, R13	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R7	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R8	1	604k	CRCW0603604KFKEA	Vishay-Dale	RES, 604 k, 1%, 0.1 W, 0603	0603
R9	1	71.5k	CRCW040271K5FKED	Vishay-Dale	RES, 71.5 k, 1%, 0.063 W, 0402	0402
R12	1	8.06k	CRCW04028K06FKED	Vishay-Dale	RES, 8.06 k, 1%, 0.063 W, 0402	0402
R14	1	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R15, R16, R17	3	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R18	1	2.00	ERJ-14BQF2R0U	Panasonic	RES, 2.00, 1%, 0.5 W, AEC-Q200 Grade 0, 1210	1210
R19	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
TP1, TP2	2	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP3	1	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
TP4, TP6, TP8	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP5, TP7	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
U1	1		TPS40170RGY	Texas Instruments	4.5-v to 60-v wide-input synchronous PWM buck controller, RGY0020A	RGY0020A

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