

PMP10117 REV C 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	6800pF	GRM155R71E682KA01D	MuRata	CAP, CERM, 6800 pF, 25 V, +/- 10%, X7R, 0402	0402
C3	1	100pF	GRM1535C1H101JDD5D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
C4	1	0.01uF	GRM155R71C103KA01D	MuRata	CAP, CERM, 0.01 μF, 16 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, C17, C19	3	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 μF, 100 V, +/- 10%, X7R, 0603	0603
C11, C11b, C12, C12b, C14, C14b, C15, C15b	8	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 μF, 100 V, +/- 10%, X7R, 1210	1210
C13	1	680pF	GRM188R72A681KA01D	MuRata	CAP, CERM, 680 pF, 100 V, +/- 10%, X7R, 0603	0603
C16	1	470uF	6TPF470MAH	Sanyo	Capacitor, POSCAP, 6.3V, 20%, 10milliOhms, 4.4Arms	1270 (D4)
C18	1	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 μF, 10 V, +/- 10%, X7R, 0603	0603
C20	1	100uF	EEEFK1J101P	Panasonic	Capacitor, Aluminum, 63V, 100uF ±20%, 10mm x 10.2mm	0.406 x 0.457 inch
C21	1	DNI	6TPF470MAH	Sanyo	Capacitor, POSCAP, 6.3V, 20%, 10milliOhms, 4.4Arms	1270 (D4)
D1	1	60V	B360A-13-F	Diodes Inc.	Diode, Schottky, 60V, 3A, SMA	SMA
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	22 uH	7443632200	WE	Inductor, Power Coke, 10.7mOhm, 12Adc	21.5x21.8 mm
L2	1	1.5uH	7443340150	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 1.5 μH, 16.5 A, 0.0044 ohm, SMD	WE-HCC-8X7
Q1	1	60V	CSD18531Q5A	Texas Instruments	MOSFET, N-CH, 60V, 19A, SON 5x6mm	SON 5x6mm
Q2	1	60V	CSD18534Q5A	Texas Instruments	MOSFET, N-CH, 60 V, 50 A, SON 5x6mm	SON 5x6mm
R1, R5	2	100k	CRCW0402100KFKE	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R2	1	1.33k	CRCW04021K33FKED	Vishay-Dale	RES, 1.33 k, 1%, 0.063 W, 0402	0402
R3	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, 0402	0402
R4, R8	2	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R6, R10, R11, R13	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R7	1	160	CRCW0402160RJNED	Vishay-Dale	RES, 160, 5%, 0.063 W, 0402	0402
R9	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	0402
R12	1	13.0k	CRCW040213K0FKED	Vishay-Dale	RES, 13.0 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	CRCW0402000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R18	1	3.3	ERJ-P14J3R3U	Panasonic	RES, 3.3, 5%, 0.5 W, 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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