

PMP10135 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	0.1uF	C2012X7R2A104K	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
C2, C3, C4, C5	4	2.2uF	GRM32ER72A225KA35	MuRata	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
C6	1	1000pF	GRM155R71H102KA01	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	0402
C7	1	100pF	GRM1535C1H101JDD5	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
C8	1	22pF	GRM1555C1H220JA01	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
C9, C18	2	0.1uF	GRM188R71H104KA93	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C10	1	2200pF	GRM155R71E222KA01	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X7R, 0402	0402
C11	1	1uF	GRM31CR72A105KA01	MuRata	CAP, CERM, 1 µF, 100 V, +/- 10%, X7R, 1206	1206
C12	1	1000pF	C2012X7R2A102K	TDK	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0805	0805
C13	1	1uF	GRM21BR71H105KA12	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805	0805
C14, C15, C16, C17	4	10uF	GRM32ER71H106KA12	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
C19	1	1uF	GRM188R71E105KA12	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C20	1	1000pF	GRM188R71H102KA01	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C21	1	4.7uF	GRM21BR71C475KA73	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	0805
C22	1	680pF	GRM155R71H681KA01	MuRata	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0402	0402
D1	1	80V	B180-13-F	Diodes Inc.	Diode, Schottky, 80 V, 1 A, SMA	SMA
J1	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
J2, J3	2		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
L1	1	100uH	7447709101	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 100 µH, 2.5 A, 0.1 ohm, SMD	WE-PD-XXL
Q1, Q2	2	80V	BSZ340N08NS3 G	Infineon Technologies	MOSFET, N-CH, 80 V, 23 A, PG-TSDSON-8	PG-TSDSON-8
R1, R2	2	1.00Meg	CRCW08051M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.125 W, 0805	0805
R3	1	1.00	CRCW08051R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.125 W, 0805	0805
R4	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	0402
R5, R19	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R6, R9	2	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R7, R16	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R8	1	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
R10, R12, R13	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R11	1	32.4k	CRCW040232K4FKED	Vishay-Dale	RES, 32.4 k, 1%, 0.063 W, 0402	0402
R14	1	23.2k	CRCW040223K2FKED	Vishay-Dale	RES, 23.2 k, 1%, 0.063 W, 0402	0402
R15	1	22	CRCW120622R0JNEA	Vishay-Dale	RES, 22, 5%, 0.25 W, 1206	1206
R17	1	7.68k	CRCW06037K68FKEA	Vishay-Dale	RES, 7.68 k, 1%, 0.1 W, 0603	0603
R18	1	1.96k	CRCW06031K96FKEA	Vishay-Dale	RES, 1.96 k, 1%, 0.1 W, 0603	0603
R20	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R21	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
TP1, TP4, TP5, TP6, TP8, TP11	6	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP2, TP7	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP9	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1	TPS40170	TPS40170RGY	Texas Instruments	4.5-v to 60-v wide-input synchronous PWM buck controller	RGY0020A

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