

PMP22805 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		PMP22805	Any	Printed Circuit Board	
C2, C3	2	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	603
C20	1	10uF	GRM188R61E106MA73D	MuRata	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	603
C21	1	1000pF	C0402C102J3RACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 5%, X7R, 0402	402
C22, C23	2	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0603	603
C24, C32	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	603
C25	1	150pF	8.85012E+11	Wurth Elektronik	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C26	1	150pF	C0603C151J5GACTU	Kemet	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C27	1	0.47uF	C1608X5R1H474K080AB	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X5R, 0603	603
C28, C29	2	0.033uF	GRM188R71E333KA01D	MuRata	CAP, CERM, 0.033 uF, 25 V, +/- 10%, X7R, 0603	603
C31	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	603
C33	1	33pF	GRM1555C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C34	1	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X5R, 0603	603
C35	1	4700pF	CGA2B2X7R1H472K050BA	TDK	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402
C36	1	680pF	GRM1555C1H681JA01D	MuRata	CAP, CERM, 680 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C37	1	15pF	GRM1555C1H150JA01D	MuRata	CAP, CERM, 15 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C38, C39, C40	3	1800pF	GRM155R71H182KA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 10%, X7R, 0402	402
C50, C51, C52, C53, C55, C56, C57, C58	8	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 20%, X5R, 0805	805
L1	1	4.7uH	XAL1060-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 14 A, 0.0098 ohm, AEC-Q200 Grade 1, SMD	Inductor, 10x6x11.3mm
MP1, MP2	2		29301	Keystone Electronics	M2.5x0.45 Pan Head Machine Screw Slotted Drive Steel	SCREW M2.5
P1, P3	2		SOLDER JUMPER	NA	Solder Jumper, SMT	SolderJumper
Q1, Q2, Q3, Q4	4	40V	CSD18511Q5AR	Texas Instruments	MOSFET, N-CH, 40 V, 100 A, DQJ0008A (VSONP-8)	DQJ0008A
R1, R2	2	0.005	CSNL1206FT5L00	Stackpole	RES, 0.005, 1%, 1 W, 1206, <100ppm	1206
R3	1	1.8	CRCW06031R80FKEA	Vishay-Dale	RES, 1.80, 1%, 0.1 W, 0603	603
R4	1	1	RC0603FR-071RL	Yageo	RES, 1.00, 1%, 0.1 W, 0603	603
R5, R6	2	4.99	CRCW06034R99FKEA	Vishay-Dale	RES, 4.99, 1%, 0.1 W, 0603	603
R7	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 1%, 0.1 W, 0603	603
R8	1	10	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	603
R9	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	603
R11, R18	2	360k	ERJ-3EKF3603V	Panasonic	RES, 360 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R12, R14, R15, R110	4	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2k, 1%, 0.1 W, 0402	402
R13	1	15.0k	RC0402FR-0715KL	Yageo America	RES, 15.0 k, 1%, 0.063 W, 0402	402
R16	1	191k	RC0603FR-07191KL	Yageo	RES, 191 k, 1%, 0.1 W, 0603	603
R17	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R20	1	220k	RC0603FR-07220KL	Yageo America	RES, 220 k, 1%, 0.1 W, 0603	603
U1	1		BQ25731RSN	Texas Instruments	1-5 cell bidirectional buck-boost battery charge controller with USB type-C PD support	WQFN32
C1	0	0.01uF	GRM188R71C103KA01D	MuRata	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0603	603
C4	0	68uF	25TDC68MYF	Panasonic	CAP, Poly Tant, 68 uF, 25 V, +/- 20%, 0.070 ohm, SMD	7343-31
C5, C6	0	0.018uF	GRM188R71H183KA01D	MuRata	CAP, CERM, 0.018 uF, 50 V, +/- 10%, X7R, 0603	603
C30	0	0.068uF	C1005X5R1H683K050BB	TDK	CAP, CERM, 0.068 uF, 50 V, +/- 10%, X5R, 0402	402

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