

PMP40939 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C21, C22, C24	4	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C2, C3, C5, C8	4	22uF	GRM31CR71A226ME15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X7R, 1206	1206
C6, C28	2	0.1uF	CL21B104MBCNNNC	Samsung	CAP, CERM, 0.1 µF, 50 V, +/- 20%, X7R, 0805	0805
C7, C9, C10, C11, C30, C34, C35	7	10uF	GRT31CR61H106KE01L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 1, 1206	1206
C12, C14	2	2.2uF	885012106018	Würth Elektronik	CAP, CERM, 2.2 uF, 16 V, +/- 20%, X5R, 0603	0603
C13	1	10uF	C2012X7R1A106M125AC	TDK	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0805	0805
C15, C31, C39, C40, C41, C42	6	0.1uF	GRM155R71C104JA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0402	0402
C17, C19	2	2.2uF	GCM31CR71H225KA55L	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C18, C20	2	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C27	1	120uF	EEHZKV121XUP	Panasonic	CAP, AL, 120 uF, 35 V, +/- 20%, 0.035 ohm, AEC-Q200 , SMD	
C37	1	0.1uF	C0402C104K4RACAUTO	Kemet	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C38	1	0.1uF	CEU4J2X7R1H104K125AE	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C49	1	4700pF	GCM188R71H472KA37D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
FID4, FID5, FID6	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
J1	1		1757242	Phoenix Contact	Header (Shrouded), 5.08 mm, 2x1, Tin, R/A, TH	Header, 5.08 mm, 2x1, R/A, TH
J3	1		632723300011	Würth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
L1	1	880 ohm	74279252	Würth Elektronik	Ferrite Bead, 880 ohm @ 100 MHz, 4 A, 1812	1812
L2	1	600nH	XAL5030-601MEB	Coilcraft	Inductor, Shielded, Composite, 600 nH, 17.7 A, 0.00411 ohm, AEC-Q200 Grade 1, SMD	5.3x31.x5.5mm
L3	1	4.7uH	XAL8080-472ME	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 10.5 A, 0.00889 ohm, SMD	8.1 x 8 x 8.6mm
L8, L9	2	30 ohm	MPZ2012S300ATD25	TDK	Ferrite Bead, 30ohm @ 100 MHz, 6 A, 0805	0805
R1	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2	1	20k	CRCW040220K0JNED	Vishay-Dale	RES, 20 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R3, R6, R12	3	5.1k	CRCW04025K10JNED	Vishay-Dale	RES, 5.1 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R4, R8	2	39k	ERJ-2GEJ393X	Panasonic	RES, 39 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R5, R9, R11	3	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R7	1	8.87k	CRCW04028K87FKED	Vishay-Dale	RES, 8.87 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10	1	0	MCR01MZPJ000	Rohm	RES, 0, 5%, 0.063 W, 0402	0402
RT1	1	470k	NCP18WM474J03RB	MuRata	Thermistor NTC, 470k ohm, 5%, 0603	0603
U1	1		TPS25855QRPQRQ1	Texas Instruments	Single 3-A USB Type-C® charging ports controller with load shedding, 2.2 MHz	VQFN-HR (25)
C4	0	22uF	GRM31CR71A226ME15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X7R, 1206	1206
C26	0	2.2uF	GCM31CR71H225KA55L	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C29, C50	0	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C32	0	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C47, C48	0	10uF	GRT31CR61H106KE01L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 1, 1206	1206
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
L4	0	880 ohm	74279252	Wurth Elektronik	Ferrite Bead, 880 ohm @ 100 MHz, 4 A, 1812	1812
L6	0	4.7uH	XAL6060-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 µH, 10.5 A, 0.0144 ohm, AEC-Q200 Grade 1, SMD	IND_6.4x6.1x6.6
L7	0	600nH	XAL5030-601MEB	Coilcraft	Inductor, Shielded, Composite, 600 nH, 17.7 A, 0.00411 ohm, AEC-Q200 Grade 1, SMD	5.3x31.x5.5mm

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