

## PMP40723 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C21, C22, C23, C24	5	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 $\mu$ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C2, C3, C5, C36	4	22uF	GRM31CR71A226ME15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X7R, 1206	1206
C6	1	0.1uF	CL21B104MBCNNNC	Samsung	CAP, CERM, 0.1 $\mu$ F, 50 V, +/- 20%, X7R, 0805	0805
C7	1	10uF	CGA5L1X7R1H106K160AC	TDK	CAP, CERM, 10 $\mu$ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C9, C10, C11, C30, C35	5	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, C16	2	10uF	C2012X7R1A106M125AC	TDK	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0805	0805
C15, C31, C39, C40, C41, C42, C43, C44, C45, C46	10	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
FID1, FID2, FID3	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, J4	2		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	1uH	XAL5030-102MEB	Coilcraft	Inductor, Shielded, CAPPR7.5-16X20, 1 $\mu$ H, 11.1 A, 0.0094 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, R5, R6	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
R7	1	8.87k	CRCW04028K87FKED	Vishay-Dale	RES, 8.87 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R9, R10	2	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		TPS25850QRPQRQ1	Texas Instruments	Dual 3A USB Type-C Charging Ports Controller with Programmable Current Limit and Thermal Management, RPQ0025A (VQFN-25)	RPQ0025A
C4, C8, C25	0	22uF	GRM31CR71A226ME15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X7R, 1206	1206
C26	0	4.7uF	CGA5L3X7R1H475K160AE	TDK	CAP, CERM, 4.7 $\mu$ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C28	0	0.1uF	CL21B104MBCNNNC	Samsung	CAP, CERM, 0.1 $\mu$ F, 50 V, +/- 20%, X7R, 0805	0805
C29	0	3300pF	GRM188R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603

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C32	0	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 $\mu$ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C33	0	2200pF	C0603X222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C34, C47, C48	0	10uF	GRT31CR61H106KE01L	MuRata	CAP, CERM, 10 $\mu$ F, 50 V, +/- 10%, X5R, AEC-Q200 Grade 1, 1206	1206
C50	0	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
L4	0	880 ohm	74279252	Würth Elektronik	Ferrite Bead, 880 ohm @ 100 MHz, 4 A, 1812	1812
L6	0	4.7uH	XAL6060-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 $\mu$ H, 10.5 A, 0.0144 ohm, AEC-Q200 Grade 1, SMD	IND_6.4x6.1x6.6
L7	0	1uH	NC	Coilcraft	Inductor, Shielded, CAPPR7.5-16X20, 1 $\mu$ H, 11.1 A, 0.0094 ohm, AEC-Q200 Grade 1, SMD	5.3x31.x5.5mm

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