

Variant: 001
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BMC103 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		BMC103	Any	Printed Circuit Board	
2	C1, C4	2	2.2uF	GRM155R61A225ME95	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 20%, X5R, 0402	402
3	C2	1	4.7uF	GRM188Z71A475ME15D	MuRata	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X7R, 0603	603
4	C3	1	150uF	T495D157K010ATE100	Kemet	CAP, TA, 150 uF, 10 V, +/- 10%, 0.1 ohm, SMD	7343-31
5	C5, C6	2	22uF	GRM187R61A226ME15D	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0603	603
6	J1, J4	2		61300611121	Würth Elektronik	Header, 2.54 mm, 6x1, Gold, TH	Header, 2.54mm, 6x1, TH
7	J2, J3	2		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
8	J5	1		TSW-121-23-L-D	Samtec	Connector Header Through Hole 42 position 0.100" (2.54mm)	HDR42
9	L1	1	1uH	HTTH16080H-1R0MSR-99	Cyntec	Power Choke Coil 100% lead pb free DC/DC Converter for CPU 1.6mm x 0.8mm 1uH 20% S Type	603
10	R1	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
11	R2	1	3.01k	CRCW04023K01FKED	Vishay-Dale	RES, 3.01 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
12	R3	1	4.75k	CRCW04024K75FKED	Vishay-Dale	RES, 4.75 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
13	R4	1	6.19k	CRCW04026K19FKED	Vishay-Dale	RES, 6.19 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
14	R5	1	7.87k	CRCW04027K87FKED	Vishay-Dale	RES, 7.87 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
15	R6	1	9.76k	CRCW04029K76FKED	Vishay-Dale	RES, 9.76 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
16	R7	1	12.1k	CRCW040212K1FKED	Vishay-Dale	RES, 12.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
17	R8	1	14.7k	CRCW040214K7FKED	Vishay-Dale	RES, 14.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
18	R9	1	18.2k	CRCW040218K2FKED	Vishay-Dale	RES, 18.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
19	R10	1	22.6k	CRCW040222K6FKED	Vishay-Dale	RES, 22.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
20	R11	1	28.7k	CRCW040228K7FKED	Vishay-Dale	RES, 28.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
21	R12	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
22	R13	1	75.0k	CRCW040275K0FKED	Vishay-Dale	RES, 75.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
23	R14	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
24	R15	1	124k	CRCW0402124KFKED	Vishay-Dale	RES, 124 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
25	R16	1	154k	CRCW0402154KFKED	Vishay-Dale	RES, 154 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
26	R17	1	191k	CRCW0402191KFKED	Vishay-Dale	RES, 191 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
27	R18	1	237k	CRCW0402237KFKED	Vishay-Dale	RES, 237 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
28	R19	1	294k	CRCW0402294KFKED	Vishay-Dale	RES, 294 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
29	R20	1	365k	CRCW0402365KFKED	Vishay-Dale	RES, 365 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
30	SH-JP1, SH-JP2, SH-JP3	3		M7582-05	Harwin	Single Operation 2.54mm Pitch Open Top Jumper Socket	Single Operation 2.54mm Pitch Open Top Jumper Socket
31	TP1	1		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
32	U1	1		TPS61299YBG	Texas Instruments	Synchronous Boost Converter with Ultra-Low Quiescent Current 0.7-5.5V Output Voltage: 1.8-5.5V Adjustable	DSBGA6
33	C7	0	22uF	GRM187R61A226ME15D	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0603	603
34	C8	0	47uF	GRM31CR61A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X5R, 1206	1206
35	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A