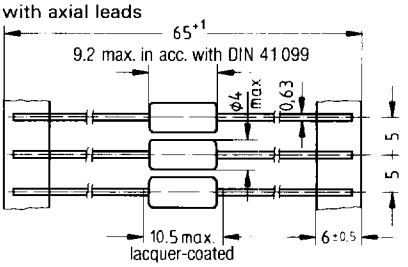
EMI SUPPRESSION CHOKES
B78108-S
B78148-S

HF chokes **Rated current 0.05 to 1.2 A**

BC chokes

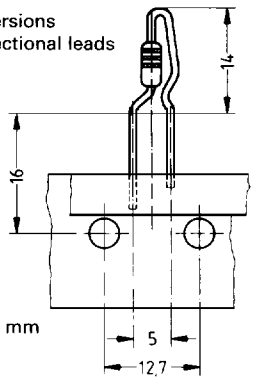
BC (bobbin core) chokes are HF chokes comprising a copper-wire winding on special ferrite drum core. The plastic sleeve is flame-retardant. Color coding is performed by rings in accordance with IEC publication 62*. Axial and unidirectional (vertical) versions of the chokes are available on continuous tapes. The bent lead of the vertical version is insulated. The chokes are suitable for automatic assembly.

B78108-S S
Taping of versions
with axial leads



Minimum lead spacing 12.5 mm

B78148-S
Taping of versions
with unidirectional leads



Dimensions in mm

Technical data

Rated inductance	1 to 4700 µH measuring frequency 1 MHz for $L \leq 10$ µH 10 kHz for $L > 10$ µH measuring current ≤ 1 mA distance between measuring clamps 25.4 mm
Rated current	referred to 40 °C/104 °F ambient temperature
DC resistance	measured at 20 °C/68 °F distance between measuring clamps 25.4 mm
Quality	measured at quality test set-up HP 4342 A
Resonance frequency	absorption measurement in acc. with MIL-C-15305
DIN climatic category (DIN 40040)	FKF (–55 to +125 °C/–67 to +257 °F; humidity category F)
IEC climatic category (IEC 68)	55/125/56
Resistance to soldering heat Test Tb (DIN IEC 68-2-20)	260 °C/500 °F, 10 s
Tensile strength of the leads	≥ 20 N
Weight	0.38 g

HF choke assortment

The series of values between 1 and 4700 µH, comprising 45 values of the E 12 series, is also available in tape sections of 10 items, each, conveniently packed in cardboard box.

Ordering code: B78108-X4 S

* basic unit: µH

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BC chokes

Inductance L µH	Tolerance %	Quality at measuring frequency Q_{min}	MHz	Rated current I_R[2] mA	DC resistance R_{max}[1] Ω	Resonance frequency f_{min} MHz	Ordering code PU: 5000[3]
1		55	7.96	1200	0.16	205	B781•8–S1102–K
1.2				1150	0.18	185	B781•8–S1122–K
1.5				1100	0.20	165	B781•8–S1152–K
1.8				1030	0.22	155	B781•8–S1182–K
2.2				1000	0.25	140	B781•8–S1222–K
2.7		60		940	0.26	125	B781•8–S1272–K
3.3				900	0.29	115	B781•8–S1332–K
3.9				850	0.31	105	B781•8–S1392–K
4.7				820	0.34	95	B781•8–S1472–K
5.6	±10 %			780	0.38	85	B781•8–S1562–K
6.8		65		670	0.51	75	B781•8–S1682–K
8.2	≙ K			690	0.48	50	B781•8–S1822–K
10		70	2.52	680	0.49	35	B781•8–S1103–K
12				650	0.55	30	B781•8–S1123–K
15		60		610	0.60	20	B781•8–S1153–K
18				580	0.67	17	B781•8–S1183–K
22		55		560	0.74	13	B781•8–S1223–K
27				530	0.83	10	B781•8–S1273–K
33				500	0.92	9	B781•8–S1333–K
39		50		470	1.02	8	B781•8–S1393–K
47		45		450	1.10	7.5	B781•8–S1473–J
56		40		430	1.23	7.0	B781•8–S1563–J
68				410	1.35	6.5	B781•8–S1683–J
82		35		390	1.54	6.0	B781•8–S1823–J
100		70	0.796	370	1.7	5.0	B781•8–S1104–J
120				300	2.4	4.5	B781•8–S1124–J
150				280	2.8	4.2	B781•8–S1154–J
180				270	3.0	3.9	B781•8–S1184–J
220				250	3.3	3.7	B781•8–S1224–J
270				200	5.7	2.8	B781•8–S1274–J
330				190	6.4	2.7	B781•8–S1334–J
390	±5 %			180	7.0	2.4	B781•8–S1394–J
470	≙ J			170	7.9	2.2	B781•8–S1474–J
560		60		160	8.8	2.0	B781•8–S1564–J
680		55		150	10.0	1.9	B781•8–S1684–J
820		50	0.252	140	12.0	1.6	B781•8–S1824–J
1000				130	14.0	1.6	B781•8–S1105–J
1200				115	17.5	1.3	B781•8–S1125–J
1500				100	23.0	1.25	B781•8–S1155–J
1800				95	26.0	1.20	B781•8–S1185–J
2200		40		80	34.7	1.10	B781•8–S1225–J
2700				75	40.0	1.00	B781•8–S1275–J
3300				62	59.5	0.90	B781•8–S1335–J
3900				59	66.0	0.80	B781•8–S1395–J
4700		35		55	78.0	0.70	B781•8–S1475–J

* Here, the code figure 0 or 4 is to be inserted
0 ≙ axial taping; 4 ≙ unidirectional taping

[1] $R_{max} = R_{20}$ = max. dc resistance at 20 °C/68 °F
$R_{TA} = R_{20} \cdot (0.92 + 0.004\ T_A)$ = max. dc resistance at T_A

[2] I_R = max. dc current at 40 °C/104 °F
I_{TA} = max. dc current at $T_A = 0.1175\ I_R$
$I_{TA} = I_R$ for $T_A \leq 40$ °C/104 °F

$$\sqrt{\frac{125 - T_A}{1 + 0.00433\ T_A}} \quad \text{for } T_A \geq 40\ °C/104\ °F$$

[3] PU 2000 for B78148–S