

EMI SUPPRESSION CHOKES

B78108-S

B78148-S

HF chokes

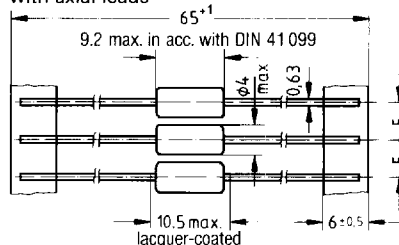
Rated current 0.05 to 1.2 A

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

Taping of versions with axial leads



Minimum lead spacing 12.5 mm

Technical data

Rated inductance

1 to 4700 μH
measuring frequency 1 MHz for $L \leq 10 \mu\text{H}$
10 kHz for $L > 10 \mu\text{H}$

Rated current

measuring current $\leq 1 \text{ mA}$
distance between measuring clamps 25.4 mm
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

260 °C/500 °F, 10 s

Test Tb (DIN IEC 68-2-20)

Tensile strength of the leads

$\geq 20 \text{ N}$

Weight

0.38 g

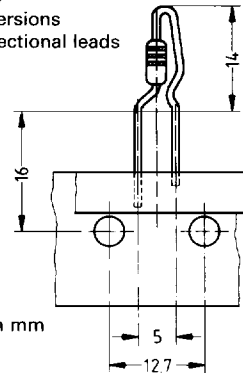
HF choke assortment

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

B78148-S

Taping of versions with unidirectional leads



Dimensions in mm

* basic unit: μH

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HF chokes

BC chokes

Inductance L μH	Tolerance %	Quality at measuring frequency		Rated current $I_R^{(2)}$ mA	DC resistance $R_{\text{max}}^{(1)}$ Ω	Resonance frequency f_{min} MHz	Ordering code PU: 5000 ³⁾	
		Q_{min}	MHz					
1	±10 %	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	7.96	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				780	0.38	85	B781•8-S1562-K	
6.8	±K	65	670	0.51	75	B781•8-S1682-K		
8.2			690	0.48	50	B781•8-S1822-K		
10			70	7.96	680	0.49	35	B781•8-S1103-K
12					650	0.55	30	B781•8-S1123-K
15			60	2.52	610	0.60	20	B781•8-S1153-K
18	580	0.67			17	B781•8-S1183-K		
22	55	2.52	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			470	1.02	8	B781•8-S1393-K		
47			450	1.10	7.5	B781•8-S1473-J		
56	±5 %	70	0.796	430	1.23	7.0	B781•8-S1563-J	
68				410	1.35	6.5	B781•8-S1683-J	
82				390	1.54	6.0	B781•8-S1823-J	
100				370	1.7	5.0	B781•8-S1104-J	
120				300	2.4	4.5	B781•8-S1124-J	
150	±J	70	0.796	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				180	7.0	2.4	B781•8-S1394-J	
470				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
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	0.252	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) $R_{\text{max}} = R_{20} = \text{max. dc resistance at } 20\text{ }^\circ\text{C}/68\text{ }^\circ\text{F}$
 $R_{T_A} = R_{20} \cdot (0.92 + 0.004 T_A) = \text{max. dc resistance at } T_A$
- 2) $I_R = \text{max. dc current at } 40\text{ }^\circ\text{C}/104\text{ }^\circ\text{F}$
 $I_{T_A} = \text{max. dc current at } T_A = 0.1175 I_R \sqrt{\frac{125 - T_A}{1 + 0.00433 T_A}}$ for $T_A \geq 40\text{ }^\circ\text{C}/104\text{ }^\circ\text{F}$
 $I_{T_A} = I_R$ for $T_A \leq 40\text{ }^\circ\text{C}/104\text{ }^\circ\text{F}$
- 3) PU 2000 for B78148-S