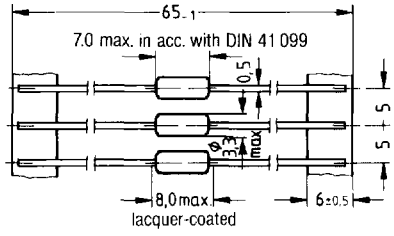
EMI SUPPRESSION CHOKES
B78108-T
B78148-T

HF chokes **Rated current 0.08 to 1.1 A**

MCC chokes

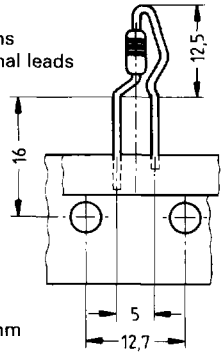
MCC (**m**iniature **c**ylindrical **c**ore) chokes are HF chokes comprising a copper-wire winding on special tubular ceramic (type B781•8–T3) or ferrite core. The plastic sleeve is flame-retardant in accordance with UL94 V-0. Color coding is performed by rings in accordance with IEC publication 62•. 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–T S
Taping of versions with axial leads



Smallest possible lead spacing 10 mm

B78148–T
Taping of versions with unidirectional leads



Dimensions in mm

Technical data

Rated inductance	0.1 to 100 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	0.24 g

HF choke assortment

The series of values between 0.1 and 100 µH, comprising 37 values of the E 12 series, is also available in tape sections of 10 items, each, conveniently packed in cardboard box.

Ordering code: B78108-X5 S

* basic unit: µH

EMI SUPPRESSION CHOKES
B78103-T
B78143-T

HF chokes

MCC chokes

Inductance L µH	Tolerance[4] %	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]
0.10		40	25.2	1120	0.11	600	B781•8–T3101–M
0.12		40	25.2	1080	0.12	570	B781•8–T3121–M
0.15		38	25.2	1020	0.13	500	B781•8–T3151–M
0.18		35	25.2	1000	0.14	460	B781•8–T3181–M
0.22		35	25.2	990	0.16	420	B781•8–T3221–M
0.27	±20	35	25.2	910	0.17	380	B781•8–T3271–M
0.33	≙ M	35	25.2	830	0.20	330	B781•8–T3331–M
0.39		35	25.2	790	0.22	300	B781•8–T3391–M
0.47		35	25.2	750	0.25	280	B781•8–T3471–M
0.56		35	25.2	700	0.28	260	B781•8–T3561–M
0.68		35	25.2	530	0.48	240	B781•8–T3681–M
0.82		35	25.2	500	0.55	230	B781•8–T3821–M
1.0		35	25.2	630	0.25	180	B781•8–T1102–K
1.2				610	0.25	170	B781•8–T1122–K
1.5				570	0.30	150	B781•8–T1152–K
1.8				540	0.30	130	B781•8–T1182–K
2.2		40		520	0.35	120	B781•8–T1222–K
2.7				480	0.40	110	B781•8–T1272–K
3.3			7.96	420	0.50	110	B781•8–T1332–K
3.9				400	0.55	100	B781•8–T1392–K
4.7				380	0.65	90	B781•8–T1472–K
5.6	±10	45		260	1.30	75	B781•8–T1562–K
6.8	≙ K			250	1.45	70	B781•8–T1682–K
8.2		50		240	1.60	65	B781•8–T1822–K
10				230	1.70	60	B781•8–T1103–K
12		55		190	2.4	50	B781•8–T1123–K
15				185	2.7	45	B781•8–T1153–K
18				175	2.9	40	B781•8–T1183–K
22				170	3.2	30	B781•8–T1223–K
27				160	3.6	27	B781•8–T1273–K
33			2.52	150	4.1	24	B781•8–T1333–K
39				140	4.5	22	B781•8–T1393–K
47		60		100	8.5	20	B781•8–T1473–K
56				100	8.8	18	B781•8–T1563–K
68				95	10.0	15	B781•8–T1683–K
82				90	11.5	14	B781•8–T1823–K
100				85	12.5	11	B781•8–T1104–K

* Here, the code figure 0 or 4 is to be inserted (see table and types):
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 $T_A = 0.1175\ I_R \sqrt{\frac{125 - T_A}{1 + 0.00433\ T_A}}$ for $T_A \geq 40$ °C/104 °F
$I_{TA} = I_R$ for $T_A \leq 40$ °C/104 °F

[3] PU 2000 for B78148–T

[4] Closer tolerance upon request