

MCC choke (Mini Cylinder Core)
Rated current 85 to 1120 mA
Rated inductance 0,1 to 100 μ H
Construction

- Ceramic or ferrite cylinder core
- Winding: enamel copper wire
- Flame-retardant lacquer coating

Features

- Low total height
- Low inductance
- High resonance frequency

Applications

- RF blocking
- Decoupling and interference suppression
- For antenna systems, automotive electronics, telecommunications, entertainment electronics

Terminals

- Central axial leads, tinned
- Radially bent to 5 mm lead spacing

Marking

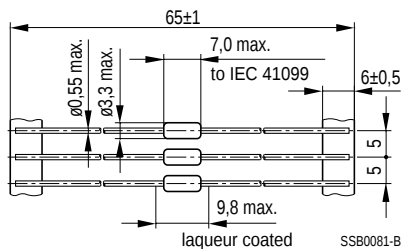
Inductance indicated by color bands in accordance with IEC 60062

Delivery mode

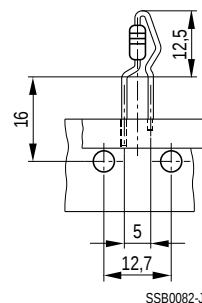
Taped, AMMO and reel packing

For details on taping, packing and packing units [see page 187](#)
Dimensional drawing

B78108-T (axial leads, taped)



B78148-T (central radial leads, taped)



Minimum lead spacing 10 mm

Approx. weight 0,25 g

RF Chokes	B78108-T
MCC Series	B78148-T

Characteristics and ordering codes

For further technical data [see page 160](#)

L_R μH	Toler- rance ¹⁾	$Q_{\min}$	f_Q MHz	I_R mA	$R_{\max}$ Ω	$f_{\text{res, min}}$ MHz	Ordering code ²⁾³⁾
Ceramic cylinder core							
0,10	$\pm 10\%$ $\triangleq K$	40	25,2	1120	0,13	600	B781*8-T3101-K
0,12		40	25,2	1080	0,145	570	B781*8-T3121-K
0,15		38	25,2	1020	0,155	500	B781*8-T3151-K
0,18		35	25,2	1000	0,17	460	B781*8-T3181-K
0,22		35	25,2	990	0,195	420	B781*8-T3221-K
0,27		35	25,2	910	0,215	380	B781*8-T3271-K
0,33		35	25,2	830	0,24	330	B781*8-T3331-K
0,39		35	25,2	790	0,27	300	B781*8-T3391-K
0,47		35	25,2	750	0,315	280	B781*8-T3471-K
0,56		35	25,2	700	0,34	260	B781*8-T3561-K
0,68		35	25,2	530	0,48	240	B781*8-T3681-K
0,82		35	25,2	500	0,55	230	B781*8-T3821-K

1) Closer tolerances upon request.

2) Replace the asterisk * by code number »0« for axial taping or by »4« for radial taping.

3) Ordering code for reel packing. For AMMO packing append code number »9«. Example: B78108-T3101-K9

RF Chokes	B78108-T
MCC Series	B78148-T

Characteristics and ordering codes (continued)

For further technical data [see page 160](#)

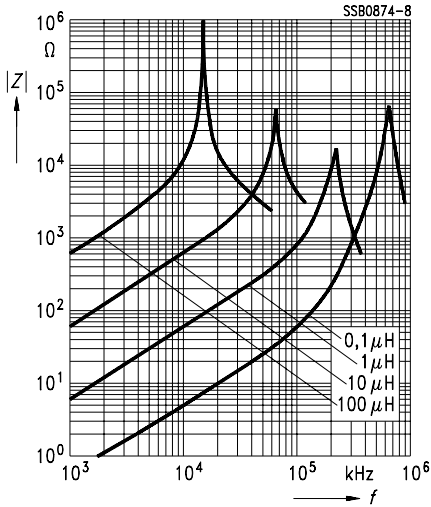
L_R μH	Toler- ance ¹⁾	$Q_{\min}$	f_Q MHz	I_R mA	$R_{\max}$ Ω	$f_{\text{res, min}}$ MHz	Ordering code ²⁾³⁾
Ferrite cylinder core							
1,0	$\pm 10\%$ $\triangleq K$	35	25,2	630	0,25	180	B781*8-T1102-K
1,2		40	7,96	610	0,25	170	B781*8-T1122-K
1,5		40	7,96	570	0,30	150	B781*8-T1152-K
1,8		40	7,96	540	0,30	130	B781*8-T1182-K
2,2		40	7,96	520	0,35	120	B781*8-T1222-K
2,7		40	7,96	480	0,40	110	B781*8-T1272-K
3,3		40	7,96	420	0,50	110	B781*8-T1332-K
3,9		40	7,96	400	0,55	100	B781*8-T1392-K
4,7		40	7,96	380	0,65	90	B781*8-T1472-K
5,6		45	7,96	260	1,30	75	B781*8-T1562-K
6,8		45	7,96	250	1,45	70	B781*8-T1682-K
8,2		50	7,96	240	1,60	65	B781*8-T1822-K
10		50	7,96	230	1,70	60	B781*8-T1103-K
12		55	2,52	190	2,40	50	B781*8-T1123-K
15		55	2,52	185	2,70	45	B781*8-T1153-K
18		55	2,52	175	2,90	40	B781*8-T1183-K
22		60	2,52	170	3,20	30	B781*8-T1223-K
27		60	2,52	160	3,60	27	B781*8-T1273-K
33		60	2,52	150	4,10	24	B781*8-T1333-K
39		60	2,52	140	4,50	22	B781*8-T1393-K
47		60	2,52	100	8,50	20	B781*8-T1473-K
56		60	2,52	100	8,80	18	B781*8-T1563-K
68		60	2,52	95	10,0	15	B781*8-T1683-K
82		60	2,52	90	11,5	14	B781*8-T1823-K
100		60	2,52	85	12,5	11	B781*8-T1104-K

1) Closer tolerances upon request.

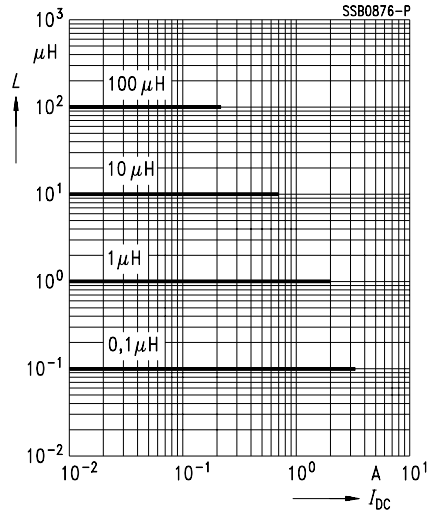
2) Replace the asterisk * by code number »0« for axial taping or by »4« for radial taping.

3) Ordering code for reel packing. For AMMO packing append code number »9«. Example: B78108-T1102-K9

Impedance $|Z|$
versus frequency f
measured with impedance analyzer
HP 4191A / HP 4194A



Inductance L
versus dc load current I_{DC}
measured with LCR meter
HP 4275A



Q factor
versus frequency f
measured with impedance analyzer
HP 4194A

