

MCC choke (Mini Cylinder Core)
Rated current 0,08 to 1,1 A
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 62

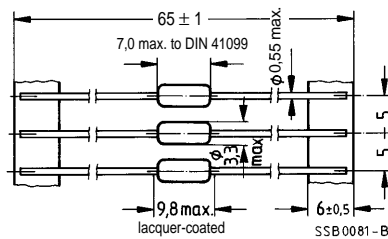
Delivery mode

Taped and reeled

For details on taping, packing and packing units see page 435.

Outline drawing

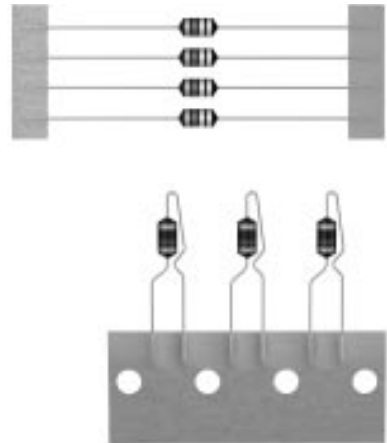
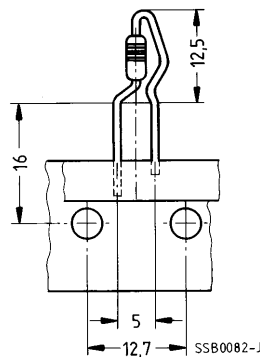
B78108-T (axial leads, taped)



Minimum lead spacing 10 mm

Approx. weight 0,25 g

B78148-T (central radial leads, taped)



Characteristics and ordering codes

For further technical data see page 91.

L_R μH	Tolerance ¹⁾	Q_{\min}	f_Q MHz	I_R mA	R_{\max} Ω	$f_{\text{res, min}}$ MHz	Ordering code ²⁾	
Ceramic cylinder core								
0,10	$\pm 10\%$ $\hat{=} K$	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	
Ferrite cylinder core								
1,0		$\pm 10\%$ $\hat{=} K$	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	

1) Closer tolerances upon request

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

Characteristics and ordering codes

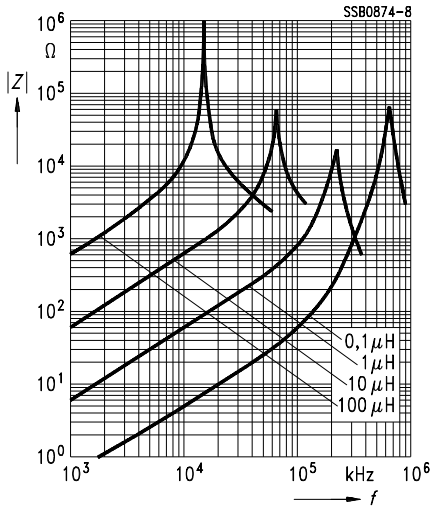
For further technical data see page 91.

L_R μH	Tolerance ¹⁾	Q_{\min}	f_Q MHz	I_R mA	R_{\max} Ω	$f_{\text{res, min}}$ MHz	Ordering code ²⁾
Ferrite cylinder core							
12	$\pm 10\%$ $\hat{=} K$	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

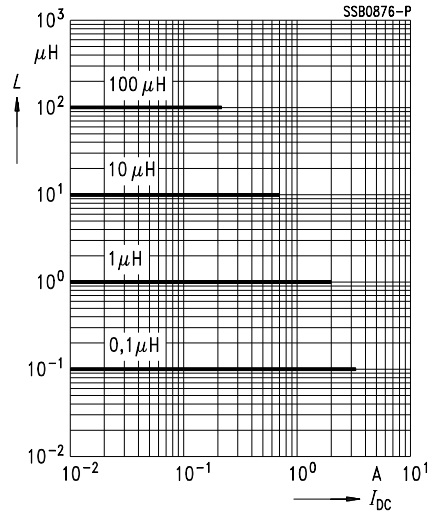
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**Impedance $|Z|$
versus frequency f**
measured with impedance analyzer
HP 4191A / HP 4194A



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



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

