

BC chokes (Bobbin Core)
Rated inductance 1 ... 4700 μ H
Rated current 55 ... 1200 mA
Construction

- Ferrite drum core
- Winding: enamel copper wire
- Flame-retardant lacquer coating

Features

- Wide inductance range
- Suitable for general-purpose application
- Special versions available
- Suitable for wave soldering
- RoHS-compatible

Applications

- RF blocking and filtering
- Decoupling and interference suppression
- For antenna systems, automotive electronics, energy-saving lamps, entertainment electronics

Terminals

- Central axial leads (B78108S)
- Radially bent to 5 mm lead spacing (B78148S)
- Base material Cu
- Electroplated with nickel and pure tin

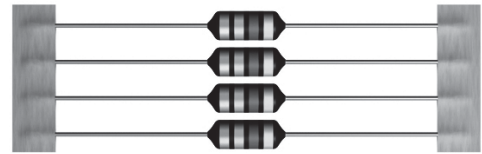
Marking

Inductance indicated by color bands to IEC 60062

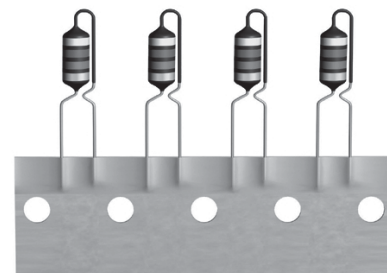
Delivery mode and packing units

- Taped, Ammo and reel packing
- Packing units:

	Ammo (pcs./pack.)	Reel (pcs./reel)
Axial	2500	5000
Radial	2500	2000



B78108S

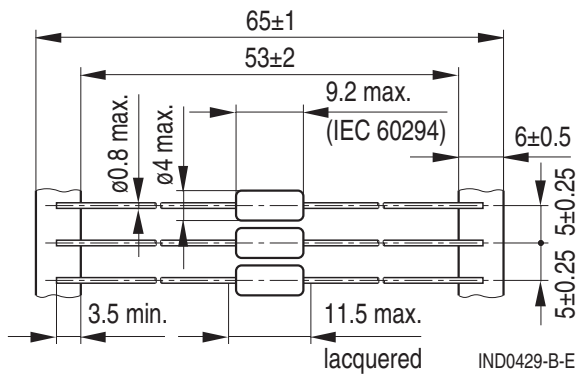


B78148S

Dimensional drawings

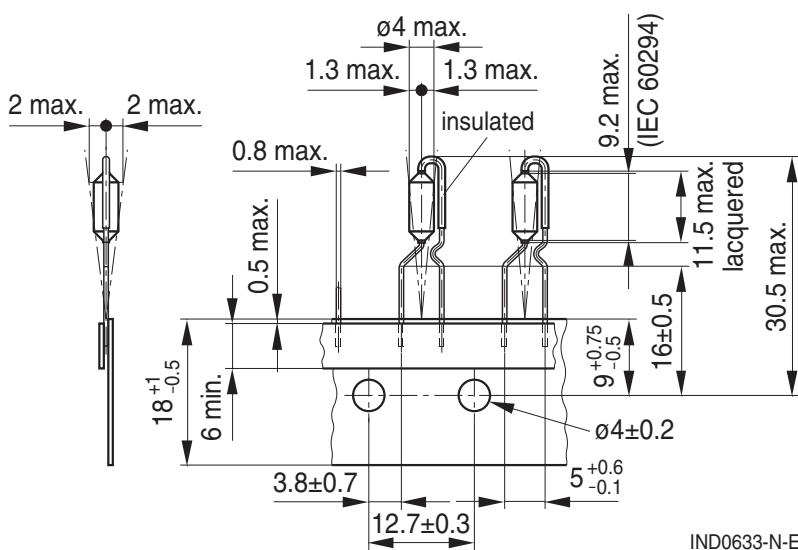
B78108S (axial leads, taped)

Dimensions in mm

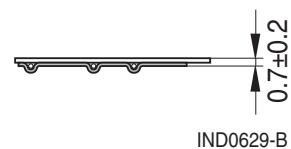


Minimum lead spacing 12.5 mm

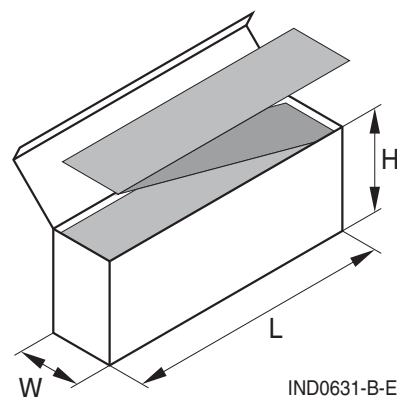
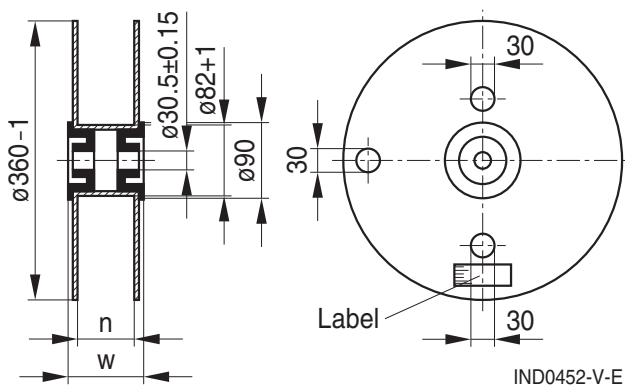
B78148S (central radial leads, taped)



Thickness of tape



Packing



n (mm): Axial 72 +1, radial 42 +1
w (mm): Axial 84 max., radial 54 max.

L × W × H (max. mm):
Axial: 275 × 80 × 140, radial: 340 × 50 × 210

Characteristics and ordering codes

L _R μH	Tolerance ¹⁾	Q _{min}	f _Q MHz	I _R mA	R _{max} Ω	f _{res, min} MHz	Ordering code ²⁾ (reel packing) ³⁾
1.0	±10% △ K	55	7.96	1200	0.16	205	B781*8S1102K000
1.2		55	7.96	1150	0.18	185	B781*8S1122K000
1.5		55	7.96	1100	0.20	165	B781*8S1152K000
1.8		55	7.96	1030	0.22	155	B781*8S1182K000
2.2		55	7.96	1000	0.25	140	B781*8S1222K000
2.7		60	7.96	940	0.26	125	B781*8S1272K000
3.3		60	7.96	900	0.29	115	B781*8S1332K000
3.9		60	7.96	850	0.31	105	B781*8S1392K000
4.7		60	7.96	820	0.34	95	B781*8S1472K000
5.6		60	7.96	780	0.38	85	B781*8S1562K000
6.8		65	7.96	670	0.51	75	B781*8S1682K000
8.2		65	7.96	690	0.48	50	B781*8S1822K000
10		70	2.52	680	0.49	35	B781*8S1103K000
12		70	2.52	650	0.55	30	B781*8S1123K000
15		60	2.52	610	0.60	20	B781*8S1153K000
18		60	2.52	580	0.67	17	B781*8S1183K000
22		55	2.52	560	0.74	13	B781*8S1223K000
27		55	2.52	530	0.83	10	B781*8S1273K000
33		55	2.52	500	0.92	9.0	B781*8S1333K000
39		50	2.52	470	1.02	8.0	B781*8S1393K000

BC chokes with temperature range up to +140 °C on request.

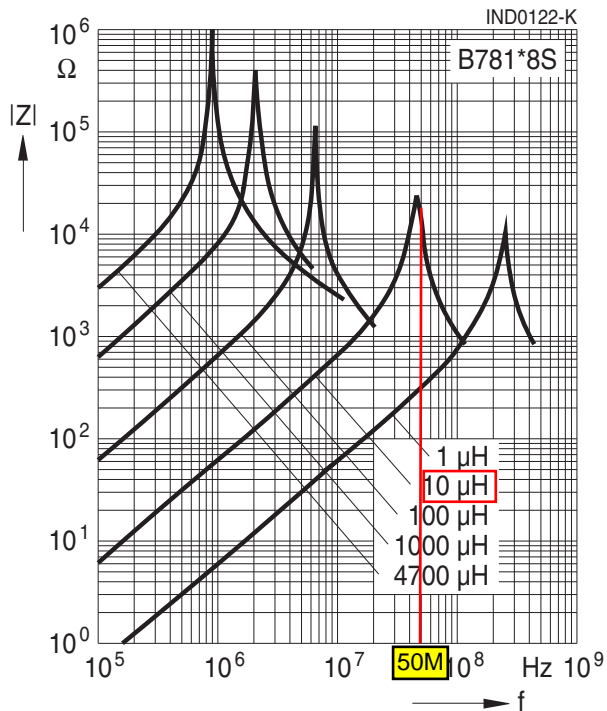
BC chokes up to 33 μH with higher resonance frequency on request.

1) Closer tolerances on request.

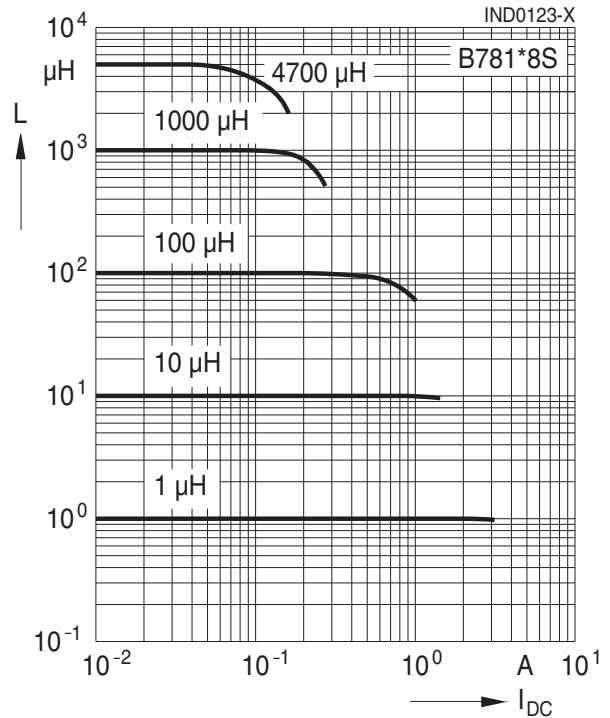
2) Replace the * by code number »0« for axial taping or by »4« for radial taping.

3) For Ammo pack the last digit has to be a »9«. Example: B78108S1102K009

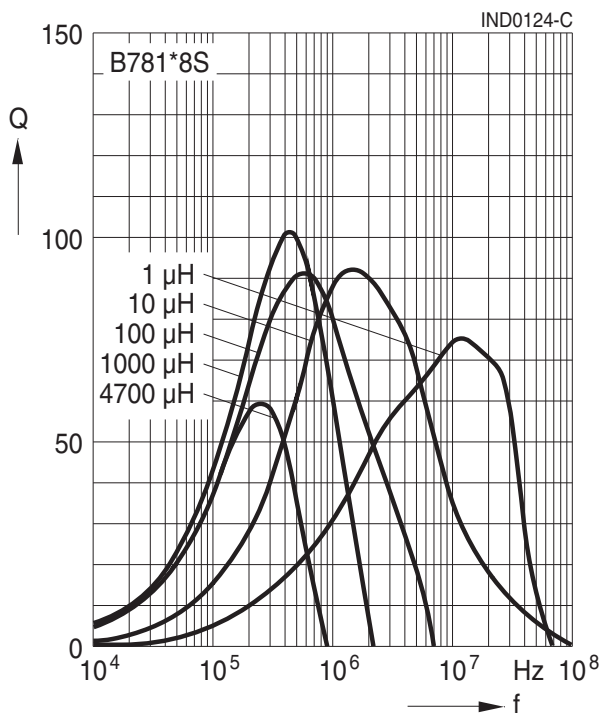
Impedance $|Z|$ versus frequency f
measured with impedance analyzer Agilent 4294A or S-parameter network analyzer Agilent 8753ES, typical values at +20 °C



Inductance L versus DC load current I_{DC}
measured with LCR meter Agilent 4284A, typical values at +20 °C



Q factor versus frequency f
measured with impedance analyzer Agilent 4294A, typical values at +20 °C



Current derating I_{op}/I_R versus ambient temperature T_A
(rated temperature $T_R = +40$ °C)

