

**BC chokes (Bobbin Core)**
**Rated inductance 1 ... 4700  $\mu$ 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

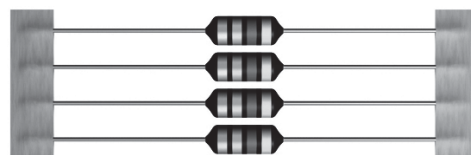
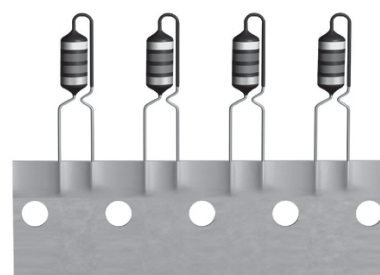
**Marking**

Inductance indicated by color bands to IEC 60062

**Delivery mode and packing units**

- Taped, Ammo and reel packing
- Packing units:

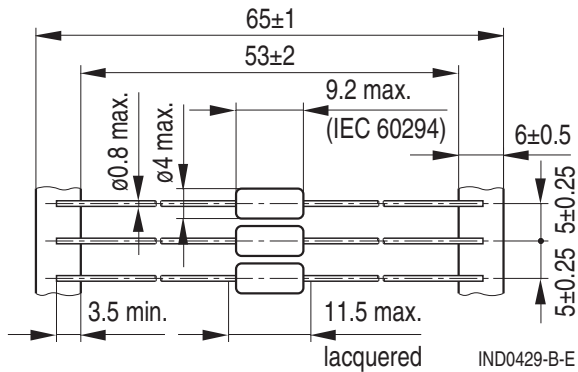
	Ammo (pcs./pack.)	Reel (pcs./reel)
Axial	2500	5000
Radial	2500	2000


**B78108S**

**B78148S**

## Dimensional drawings

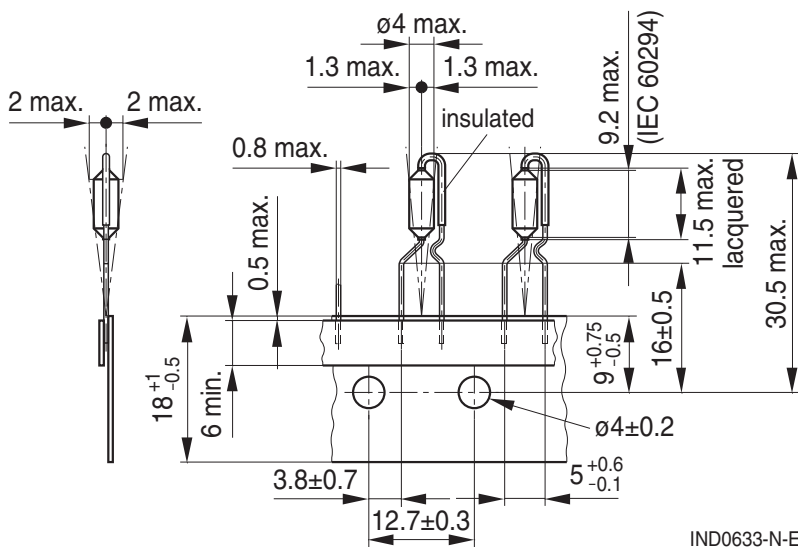
B78108S (axial leads, taped)

Dimensions in mm

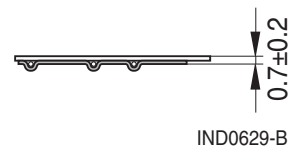


Minimum lead spacing 12.5 mm

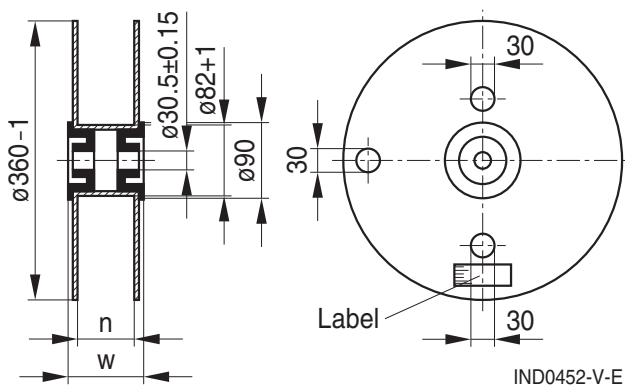
B78148S (central radial leads, taped)



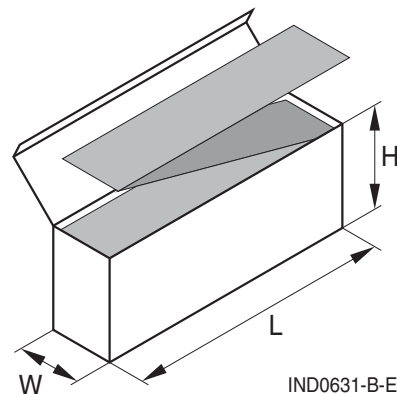
Thickness of tape



## 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 <sub>R</sub> μH	Tolerance <sup>1)</sup>	Q <sub>min</sub>	f <sub>Q</sub> MHz	I <sub>R</sub> mA	R <sub>max</sub> Ω	f <sub>res, min</sub> MHz	Ordering code <sup>2)</sup> (reel packing) <sup>3)</sup>
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

### Characteristics and ordering codes

L <sub>R</sub> μH	Tolerance <sup>1)</sup>	Q <sub>min</sub>	f <sub>Q</sub> MHz	I <sub>R</sub> mA	R <sub>max</sub> Ω	f <sub>res, min</sub> MHz	Ordering code <sup>2)</sup> (reel packing) <sup>3)</sup>
47	±5% ± J	45	2.52	450	1.10	7.5	B781*8S1473J000
56		40	2.52	430	1.23	7.0	B781*8S1563J000
68		40	2.52	410	1.35	6.5	B781*8S1683J000
82		35	2.52	390	1.54	6.0	B781*8S1823J000
100		70	0.796	370	1.70	5.0	B781*8S1104J000
120		70	0.796	300	2.40	4.5	B781*8S1124J000
150		70	0.796	280	2.80	4.2	B781*8S1154J000
180		70	0.796	270	3.00	3.9	B781*8S1184J000
220		70	0.796	250	3.30	3.7	B781*8S1224J000
270		70	0.796	200	5.70	2.8	B781*8S1274J000
330		70	0.796	190	6.40	2.7	B781*8S1334J000
390		70	0.796	180	7.00	2.4	B781*8S1394J000
470		70	0.796	170	7.90	2.2	B781*8S1474J000
560		60	0.796	160	8.80	2.0	B781*8S1564J000
680		55	0.796	150	10.0	1.9	B781*8S1684J000
820		50	0.796	140	12.0	1.6	B781*8S1824J000
1000		50	0.252	130	14.0	1.6	B781*8S1105J000
1200		50	0.252	115	17.5	1.3	B781*8S1125J000
1500		50	0.252	100	23.0	1.25	B781*8S1155J000
1800		50	0.252	95	26.0	1.2	B781*8S1185J000
2200		40	0.252	80	34.7	1.1	B781*8S1225J000
2700		40	0.252	75	40.0	1.0	B781*8S1275J000
3300		40	0.252	62	59.5	0.9	B781*8S1335J000
3900		40	0.252	59	66.0	0.8	B781*8S1395J000
4700		35	0.252	55	78.0	0.7	B781*8S1475J000

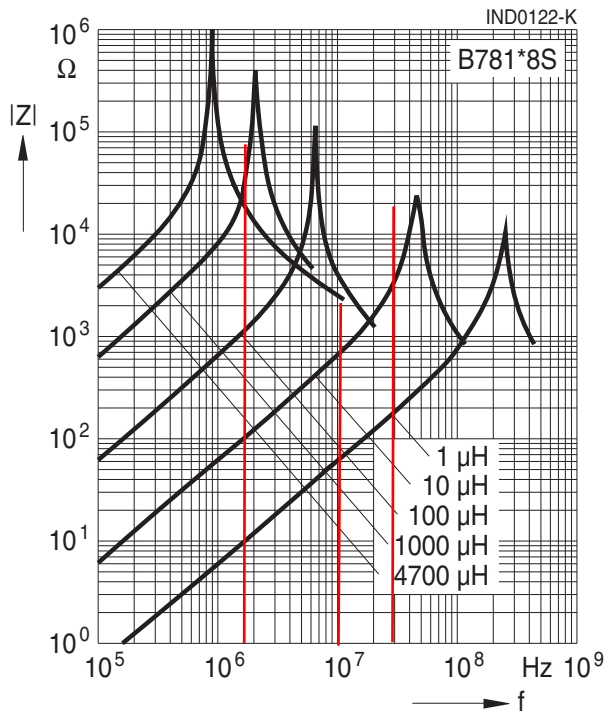
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1) Closer tolerances on request.

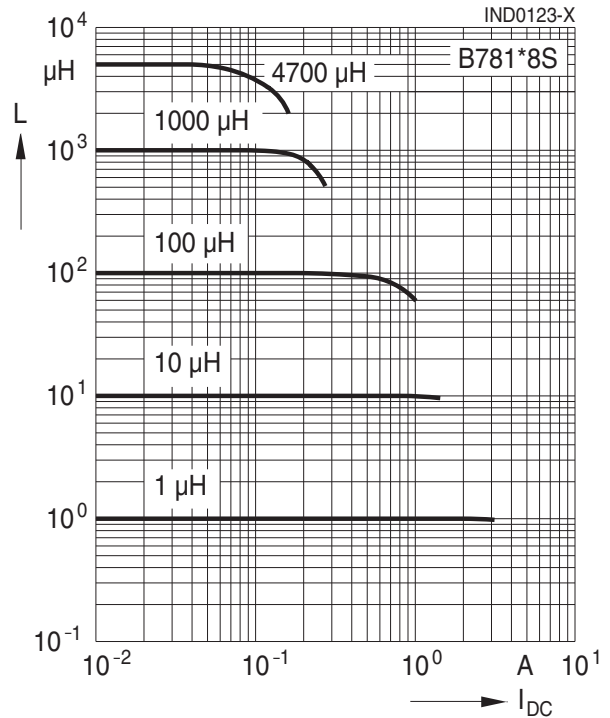
2) Replace the \* by code number »0« for axial tapping or by »4« for radial tapping.

3) For Ammo pack the last digit has to be a »9«. Example: B78108S1473J009

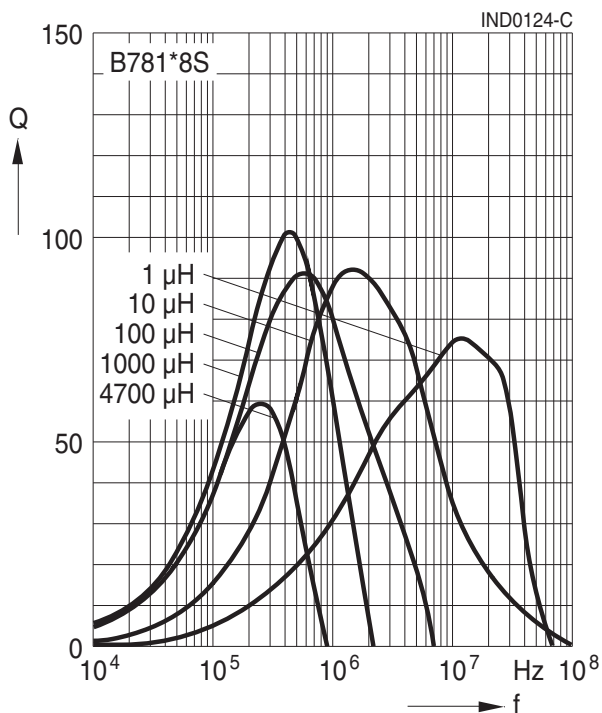
**Impedance  $|Z|$  versus frequency  $f$**   
measured with impedance analyzer Agilent 4294A or S-parameter network analyzer Agilent 8753ES, typical values at +20 °C



**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)

