

LBC choke (Large Bobbin Core)
Rated current 20 to 2200 mA
Rated inductance 1 to 100 000 μ H
Construction

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

Features

- Very wide inductance range
- High rated current

Applications

- RF blocking and filtering
- Decoupling and interference suppression
- For telecommunications (12- or 16-kHz blocking filter), automotive electronics, energy-saving lamps, entertainment electronics

Terminals

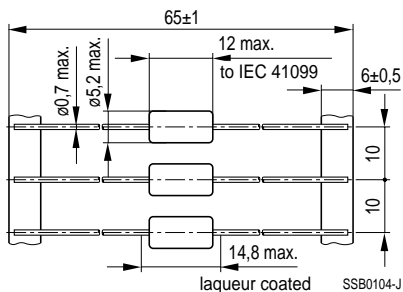
- Central axial leads, tinned

Marking

Inductance indicated by color bands in accordance with IEC 60062

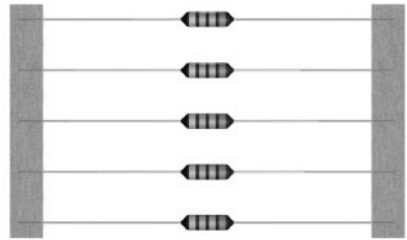
Delivery mode

Taped, AMMO and reel packing

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


Minimum lead spacing 15 mm

Approx. weight 1,1 g



Characteristics and ordering codes

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

L_R μH	Tolerance ¹⁾	Q_{\min}	f_Q MHz	I_R mA	R_{\max} Ω	$f_{\text{res, min}}$ MHz	Ordering code ²⁾
1,0	$\pm 10\%$ $\triangleq K$	40	7,96	2200	0,08	200	B82144-A2102-K
1,5		40	7,96	2100	0,09	190	B82144-A2152-K
2,2		40	7,96	1900	0,11	140	B82144-A2222-K
3,3		40	7,96	1750	0,13	120	B82144-A2332-K
4,7		40	7,96	1600	0,16	100	B82144-A2472-K
6,8		40	7,96	1500	0,19	80	B82144-A2682-K
10		60	2,52	1400	0,22	60	B82144-A2103-K
15		60	2,52	1250	0,28	20	B82144-A2153-K
22		50	2,52	1100	0,35	12	B82144-A2223-K
33		$\pm 5\%$ $\triangleq J$	40	2,52	900	0,43	8,0
47	40		2,52	800	0,50	5,0	B82144-A2473-J
68	30		2,52	700	0,60	4,5	B82144-A2683-J
100	50		0,796	600	0,70	3,5	B82144-A2104-J
150	50		0,796	500	0,90	3,0	B82144-A2154-J
220	50		0,796	400	1,60	2,4	B82144-A2224-J
330	50		0,796	330	1,90	2,0	B82144-A2334-J
470	40		0,796	280	2,50	1,5	B82144-A2474-J
680	30		0,796	240	2,80	1,3	B82144-A2684-J
1000	60		0,252	200	3,80	1,2	B82144-A2105-J
1500	60	0,252	160	6,00	1,0	B82144-A2155-J	
2200	60	0,252	120	9,00	0,8	B82144-A2225-J	
3300	60	0,252	110	12,0	0,6	B82144-A2335-J	
4700	60	0,252	90	20,0	0,5	B82144-A2475-J	
6800	60	0,252	80	30,0	0,4	B82144-A2685-J	
10000	50	0,0796	60	42,0	0,35	B82144-A2106-J	
15000	50	0,0796	50	68,0	0,30	B82144-A2156-J	
22000	50	0,0796	40	120	0,26	B82144-A2226-J	

1) Closer tolerances upon request.

2) Ordering code for reel packing. For AMMO packing append code number »9«. Example: B82144-A2102-K9

Characteristics and ordering codes (continued)

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

L_R μH	Tolerance ¹⁾	Q_{\min}	f_Q MHz	I_R mA	R_{\max} Ω	$f_{\text{res, min}}$ MHz	Ordering code ²⁾
33000	$\pm 5\%$ \triangleq J	50	0,0796	35	150	0,22	B82144-A2336-J
47000		40	0,0796	30	230	0,18	B82144-A2476-J
68000		40	0,0796	25	290	0,15	B82144-A2686-J
100000		40	0,0796	20	420	0,12	B82144-A2107-J

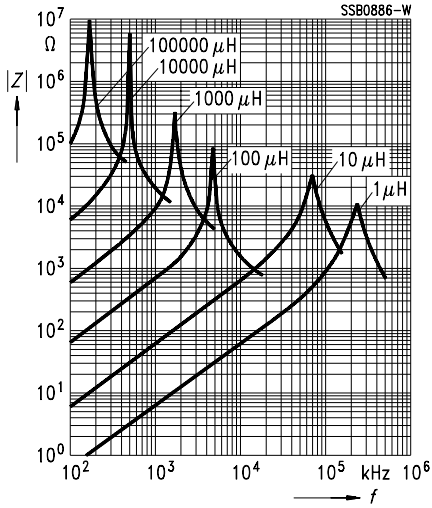
For telecommunications in the blocking filter for 12- and 16-kHz counting pulses

980	$\pm 3\%$ \triangleq A	25	0,016	200	3,8	1,2	B82144-A2984-A
1450		25	0,016	140	6,0	1,0	B82144-A2145-A500
2600		20	0,012	120	11,0	0,7	B82144-A2265-A
3050		25	0,016	100	12,0	0,6	B82144-A2305-A500
5330		20	0,012	90	25,0	0,5	B82144-A2535-A300

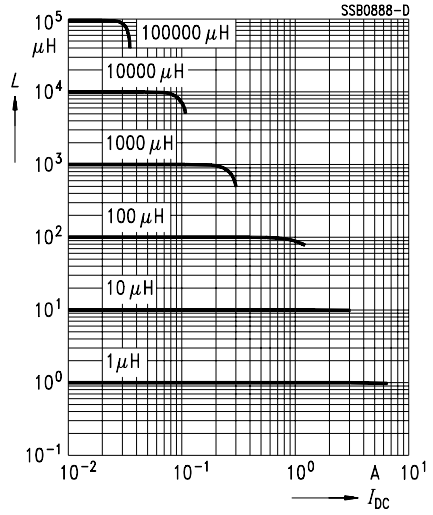
1) Closer tolerances upon request.

2) Ordering code for reel packing. For AMMO packing please append code number »9« or replace last digit by »9«, respectively. Example: B82144-A2336-J9; B82144-A2535-A309

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

