

SBC choke (Small Bobbin Core)
Rated current 55 to 725 mA
Rated inductance 1 to 1000 μ H
Construction

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

Features

- Small size
- Relatively high rated current

Applications

- RF blocking and filtering
- Decoupling and interference suppression
- For electronic household appliances, automotive and entertainment electronics

Terminals

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

Marking

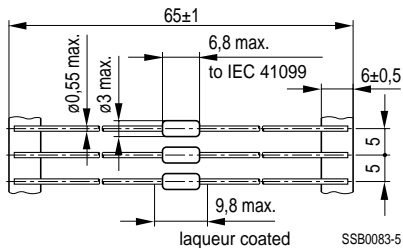
Inductance indicated by color bands in accordance with IEC 60062

Delivery mode

Taped, AMMO and reel packing

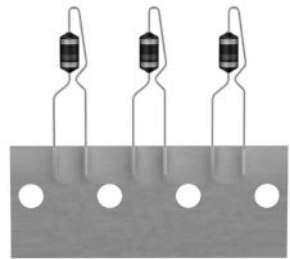
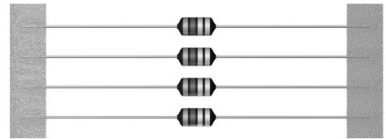
 For details on taping, packing and packing units [see page 187](#)
Dimensional drawing

B82141-A (axial leads, taped)

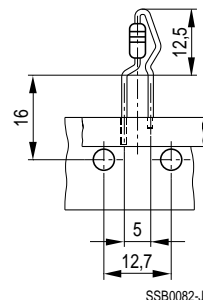


Minimum lead spacing 10 mm

Approx. weight 0,22 g



B82141-B (central radial leads, taped)



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⁾³⁾
1,0	$\pm 10\%$ $\triangleq K$	40	7,96	725	0,19	180	B82141++1102-K
1,2		40	7,96	700	0,20	160	B82141++1122-K
1,5		40	7,96	670	0,22	155	B82141++1152-K
1,8		45	7,96	660	0,23	145	B82141++1182-K
2,2		45	7,96	630	0,25	130	B82141++1222-K
2,7		45	7,96	610	0,27	110	B82141++1272-K
3,3		50	7,96	580	0,30	90	B82141++1332-K
3,9		50	7,96	560	0,32	70	B82141++1392-K
4,7		50	7,96	530	0,36	60	B82141++1472-K
5,6		50	7,96	510	0,38	50	B82141++1562-K
6,8		50	7,96	480	0,43	40	B82141++1682-K
8,2		50	7,96	450	0,52	30	B82141++1822-K
10		55	2,52	410	0,60	25	B82141++1103-K
12		55	2,52	385	0,67	20	B82141++1123-K
15		55	2,52	365	0,74	17	B82141++1153-K
18		55	2,52	350	0,81	14	B82141++1183-K
22	55	2,52	335	0,90	12	B82141++1223-K	
27	55	2,52	315	1,00	11	B82141++1273-K	
33	55	2,52	300	1,12	10	B82141++1333-K	
39	55	2,52	285	1,21	8,5	B82141++1393-K	

1) Closer tolerances upon request.

2) Replace the + by code letter »A« for axial taping or by »B« for radial taping.

3) Ordering code for reel packing. For AMMO packing append code number »9«. Example: B82141-A1102-K9

Characteristics and ordering codes (continued)

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

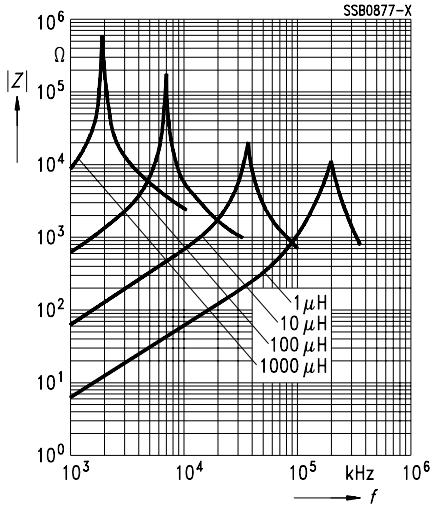
L_R μH	Tolerance ¹⁾	Q_{\min}	f_Q MHz	I_R mA	R_{\max} Ω	$f_{\text{res, min}}$ MHz	Ordering code ²⁾³⁾
47	$\pm 5\%$ $\triangleq J$	55	2,52	200	2,40	7,7	B82141+1473-J
56		55	2,52	195	2,60	6,8	B82141+1563-J
68		55	2,52	185	2,90	5,7	B82141+1683-J
82		55	2,52	175	3,20	5,5	B82141+1823-J
100		60	0,796	170	3,50	5,3	B82141+1104-J
120		60	0,796	160	3,80	5,0	B82141+1124-J
150		60	0,796	150	4,30	4,6	B82141+1154-J
180		60	0,796	135	5,30	4,2	B82141+1184-J
220		60	0,796	130	5,80	3,8	B82141+1224-J
270		60	0,796	115	7,80	3,2	B82141+1274-J
330		60	0,796	105	9,10	3,0	B82141+1334-J
390		60	0,796	95	11,0	2,7	B82141+1394-J
470		60	0,796	90	12,0	2,3	B82141+1474-J
560		60	0,796	75	16,5	2,2	B82141+1564-J
680		60	0,796	65	22,0	2,0	B82141+1684-J
820		60	0,796	60	25,0	1,8	B82141+1824-J
1000	60	0,796	55	33,0	1,5	B82141+1105-J	

1) Closer tolerances upon request.

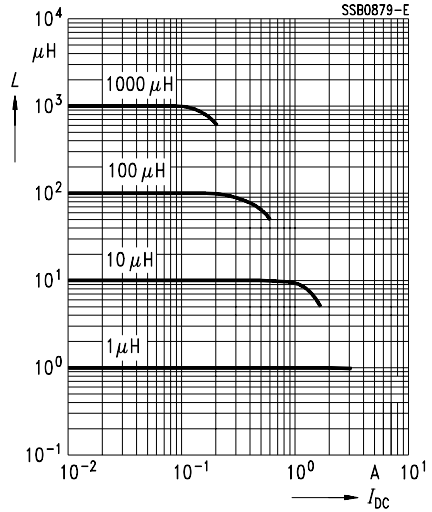
2) Replace the + by code letter »A« for axial taping or by »B« for radial taping.

3) Ordering code for reel packing. For AMMO packing append code number »9«. Example: B82141-B1473-J9

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

