

## Features

1. Coil body of ceramic or ferrite material according to inductance value.
2. Two solderable metallized terminations of Ag/Pd/Pt.
3. Wound with lacquer-coated copper wire.
4. Wire ends welded onto the terminations.
5. Lead Free (RoHS Compliance).

## Applications

1. RF technique
2. Antenna Amplifiers Tuners, Base Stations or SAT Receivers

## Ordering Information

<b>5501</b>	<b>270</b>	<b>*</b>	<b>*</b>	<b>**</b>
(1)	(2)	(3)	(4)	(5)

### (1) Series

- 5501: Size 1008(2520)

### (4) Delivery Form

- 2: standard , tape & reel
- 4 : coated, tape & reel

### (2) Inductance Value

example:  $27 \times 10^x = 27 \times 10^0 = 27(\text{nH})$

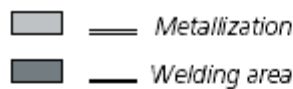
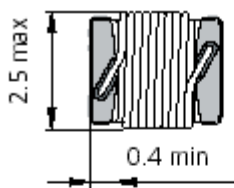
### (5) Packing unit tape & reel

- 00 : reels  $\Phi 180\text{mm}$ , 1,700 pcs.
- 03 : reels  $\Phi 330\text{mm}$ , 6,800 pcs.

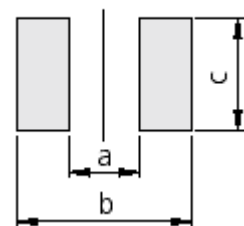
### (3) Inductance Tolerance

- 1 :  $\pm 20\%$
- 2 :  $\pm 10\%$
- 3 :  $\pm 5\%$
- 4 :  $\pm 2\%$
- 9 : special tolerance

## Shape and Dimensions (mm)

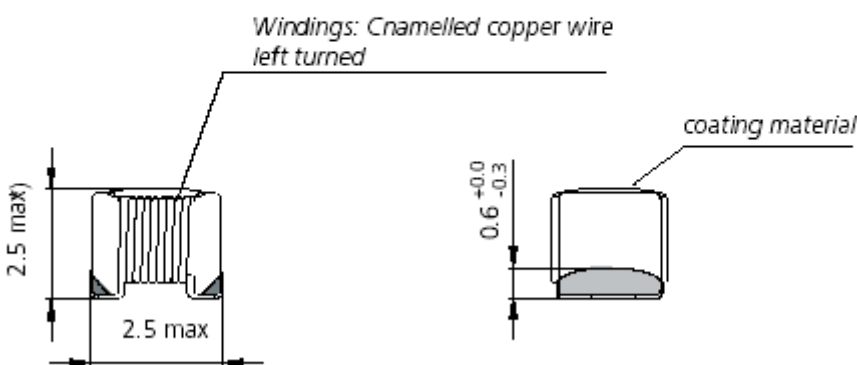


### Recommendation:



a	b	c
1,4	3,4	2,2

Dimensions (mm)



component height without coating material: max. 2.2 mm

\*All specifications are subject to change without notice.

## Electrical Parameters

Order No.	L [nH]	Q <sub>min</sub>	f <sub>L,Q</sub> [MHz]	f <sub>res,min</sub> [MHz]	D.C.R. <sub>max</sub> [mΩ ]	I <sub>N,max</sub> [mA]	Tol. [%]
5501 100 ** **	10	35	100	3000	50	1850	10/20
5501 120 ** **	12	35	100	2000	50	1650	10/20
5501 180 ** **	18	40	100	1700	50	1550	10/20
5501 220 ** **	22	45	100	1500	60	1450	10/20
5501 270 ** **	27	40	100	1300	90	1300	05/10/20
5501 330 ** **	33	45	100	1300	60	1450	10/20
5501 390 ** **	39	45	100	1200	75	1300	05/10/20
5501 470 ** **	47	50	100	1000	75	1300	05/10/20
5501 560 ** **	56	50	100	1000	90	1260	05/10/20
5501 680 ** **	68	50	100	1000	90	1260	05/10/20
5501 820 ** **	82	50	100	950	150	820	05/10/20
5501 101 ** **	100	45	100	900	150	820	05/10/20
5501 121 ** **	120	45	100	900	150	820	05/10/20
5501 151 ** **	150	45	100	825	180	820	05/10/20
5501 181 ** **	180	40	50	800	200	770	05/10/20
5501 221 ** **	220	40	50	700	260	660	05/10/20
5501 271 ** **	270	40	50	650	350	610	05/10/20
5501 331 ** **	330	40	50	570	450	500	05/10/20
5501 391 ** **	390	40	50	520	750	360	05/10/20
5501 471 ** **	470	35	50	490	800	310	05/10/20
5501 561 ** **	560	35	35	440	1200	260	05/10/20
5501 681 ** **	680	35	35	390	1900	200	05/10/20
5501 821 ** **	820	35	35	360	2300	170	05/10/20
5501 102 ** **	1000	35	35	330	2700	170	05/10/20
5501 122 ** **	1200	35	35	310	3000	170	05/10/20
5501 152 ** **	1500	20	7,9	240	650	370	05/10/20
5501 182 ** **	1800	20	7,9	200	800	320	05/10/20
5501 222 ** **	2200	20	7,9	200	1150	280	05/10/20
5501 272 ** **	2700	20	7,9	180	1300	280	05/10/20
5501 332 ** **	3300	20	7,9	170	1500	250	05/10/20
5501 392 ** **	3900	20	7,9	150	2100	200	05/10/20
5501 472 ** **	4700	20	7,9	140	2600	180	05/10/20
5501 562 ** **	5600	20	7,9	130	2900	180	05/10/20
5501 682 ** **	6800	20	7,9	100	3700	180	05/10/20
5501 822 ** **	8200	20	7,9	110	5500	130	05/10/20
5501 103 ** **	10000	20	7,9	95	8000	130	05/10/20

Ceramic

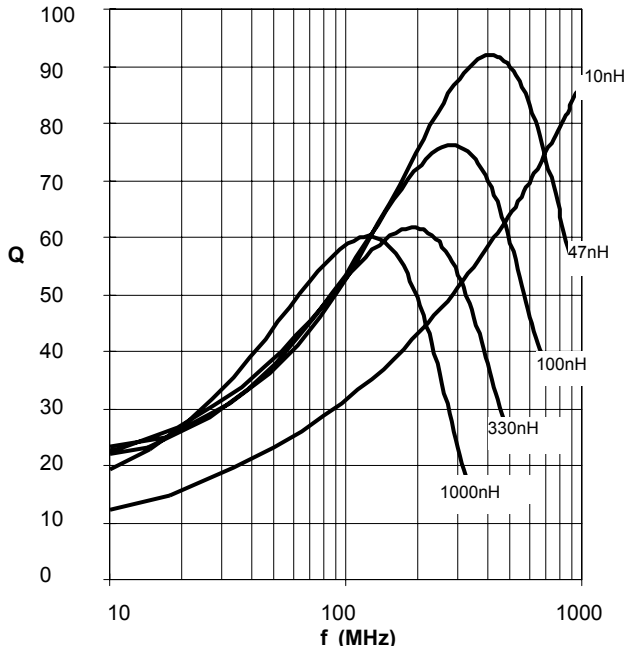
Ferrite

All values up to 1200 nH on ceramic core – from 1500 nH on ferrite core.

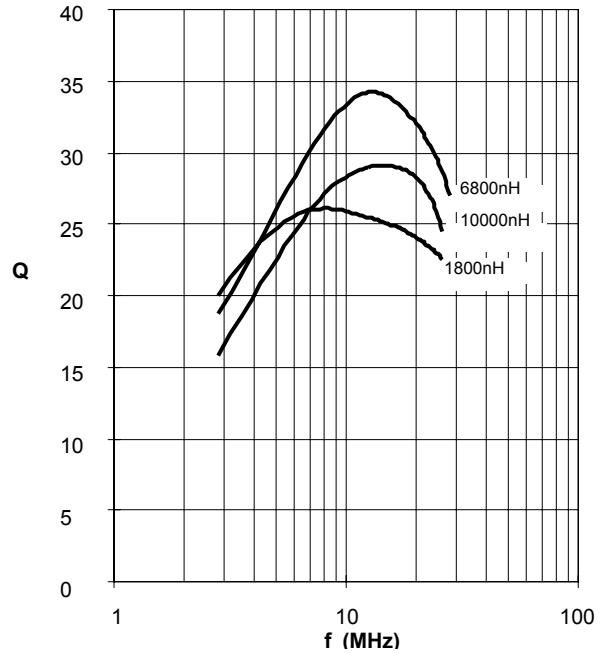
## Electrical Characteristic Curves

Typical Q factor vs. frequency

Coil on ceramic body

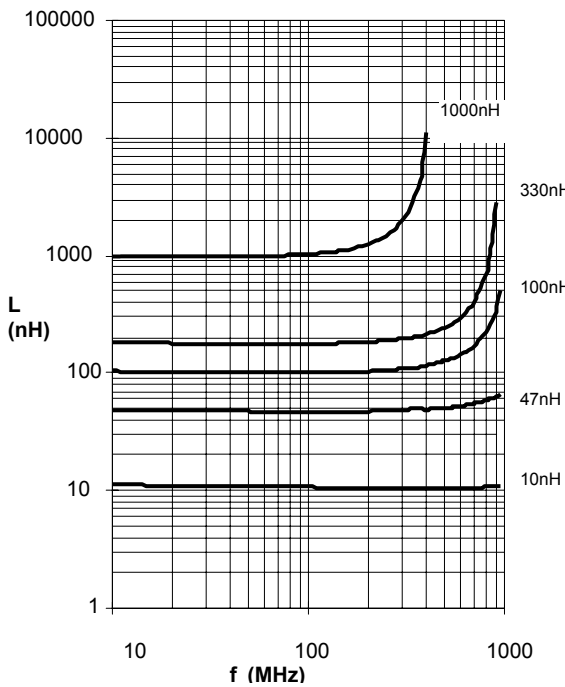


Coil on ferrite body

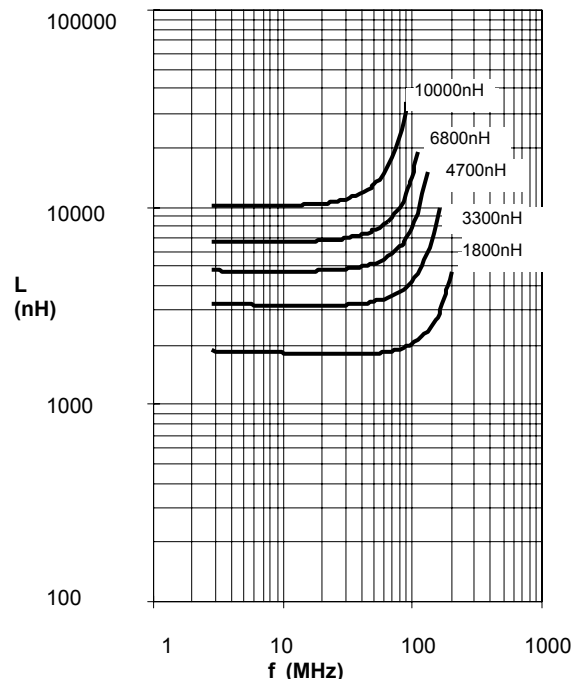


Typical Inductance vs. frequency

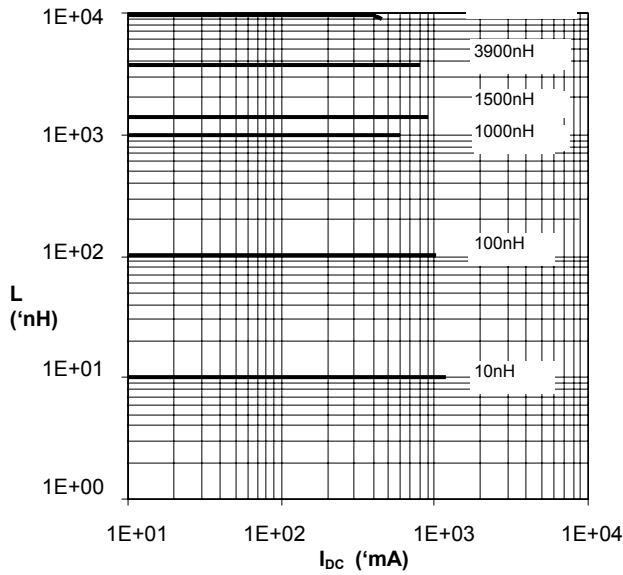
Coil on ceramic body



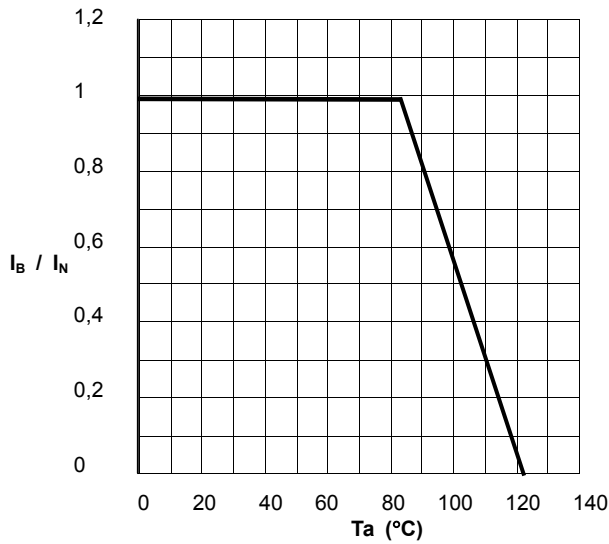
Coil on ferrite body



**Inductance L in dependence of direct current  $I_{DC}$**



**Current-carrying capacity  $I_{OP}/I_R$  in dependence of the ambient temperature  $T_a$**



Climatic category acc. to DIN IEC 68-1: 55/125/56

Test equipment: Inductance and Q: Agilent 42286A + 16093A.

Resonant Frequency: Agilent 8753E.

D.C.R. : Burst Resistomat 2329.(at 20°C)