

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

5501	270	*	*	**
(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: $27 \times 10^x = 27 \times 10^0 = 27(\text{nH})$

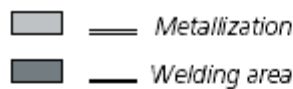
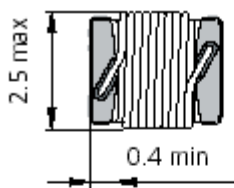
(5) Packing unit tape & reel

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

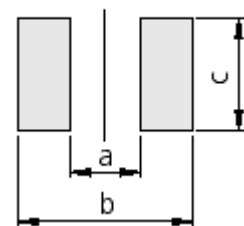
(3) Inductance Tolerance

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

Shape and Dimensions (mm)

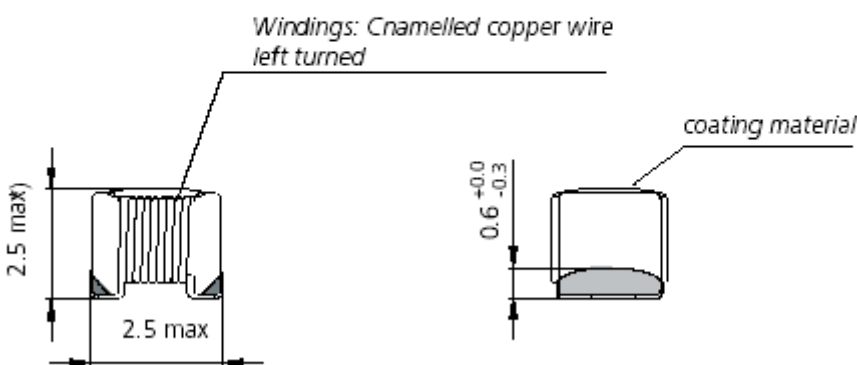


Recommendation:



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

Dimensions (mm)



component height without coating material: max. 2.2 mm

Electrical Parameters

Order No.	L [nH]	Q _{min}	f _{L,Q} [MHz]	f _{res,min} [MHz]	D.C.R. _{max} [mΩ]]	I _{N,max} [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

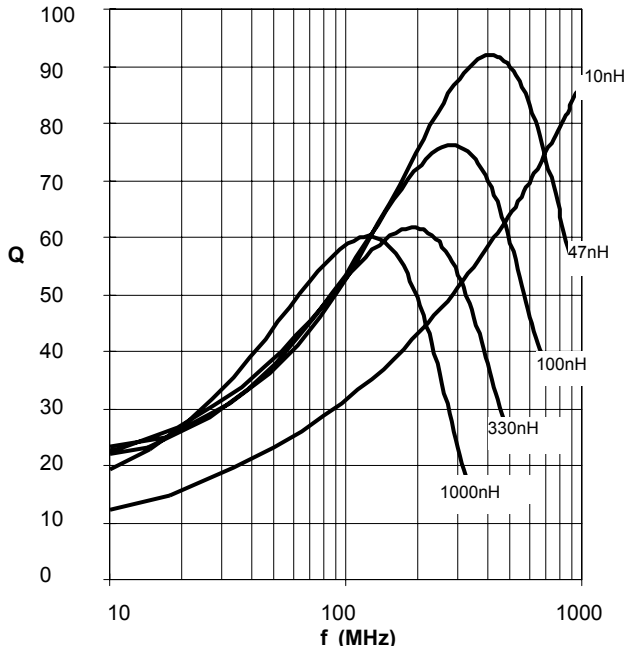
Ferrite

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

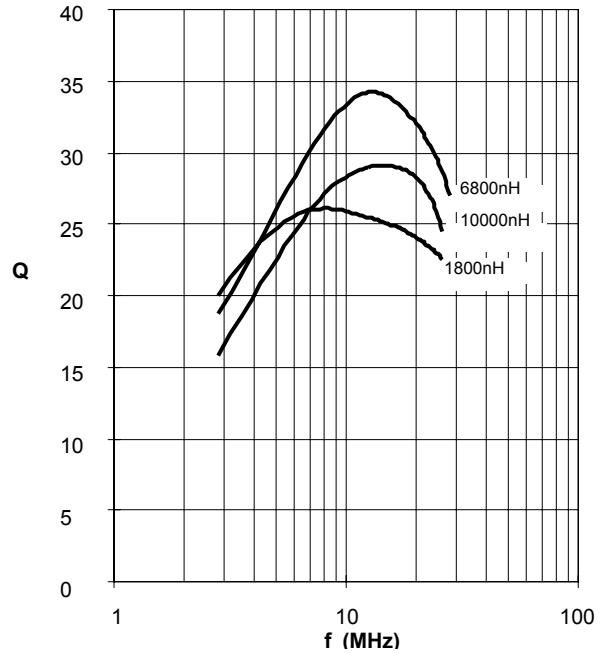
Electrical Characteristic Curves

Typical Q factor vs. frequency

Coil on ceramic body

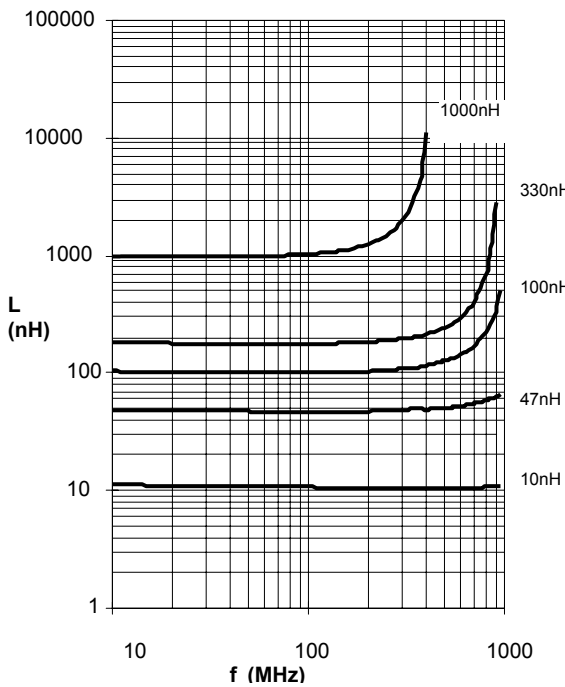


Coil on ferrite body

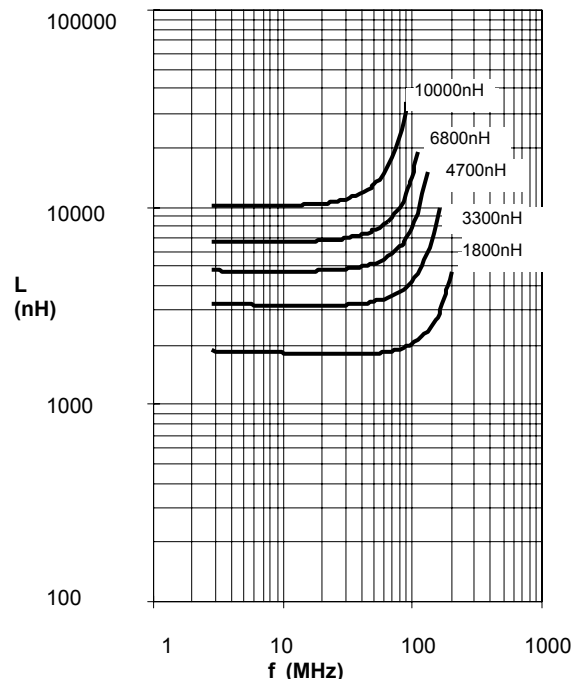


Typical Inductance vs. frequency

Coil on ceramic body

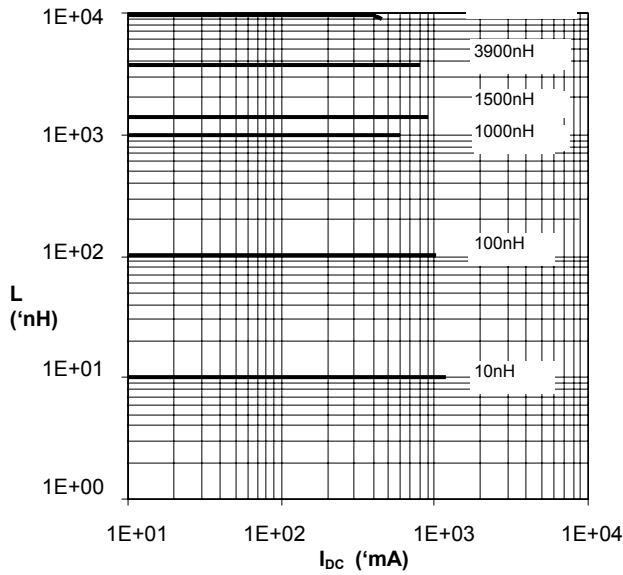


Coil on ferrite body

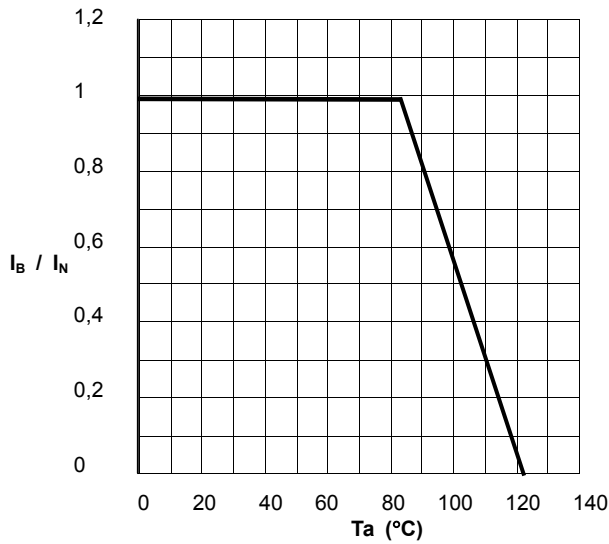


*All specifications are subject to change without notice.

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)