

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

5508	270	*	*	**
(1)	(2)	(3)	(4)	(5)

(1) Series

-5508: Size 0805(2012)

(2) Inductance Value

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

(3) Inductance Tolerance

8 : $\pm 0.2 \text{ nH}$ 3 : $\pm 5\%$
 9 : $\pm 0.3 \text{ nH}$ 4 : $\pm 2\%$

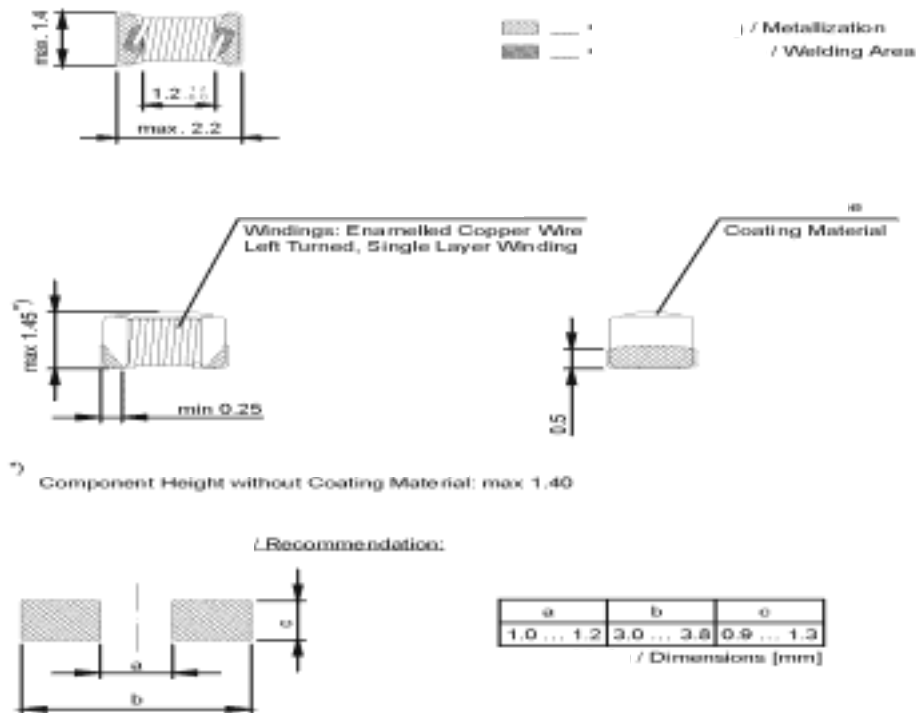
(4) Delivery Form

4 : coated, taped on 8 mm cardboard tape
 packing unit reels $\Phi 180 \text{ mm}$, 10,000 pcs.

(5) Packing unit tape & reel

00 : reels $\Phi 180 \text{ mm}$, 3,000 pcs.
 03 : reels $\Phi 330 \text{ mm}$, 10,000 pcs.
 05 : reels $\Phi 180 \text{ mm}$, 500 pcs.

Shape and Dimensions (mm)



Electrical Parameters

Order No.	L [nH]	Q _{min}	Q _{typ} at 800MHz	f _{LQ} [MHz]	f _{res,min} [MHz]	D.C.R. _{max} [mΩ]	I _{N,max} [mA]	Tol. [%]	Ceramic
5508020****	2,7	20	50	250	6000	30	1000	20	
5508050****	5,6	25	60	250	6000	40	900	10/20	
5508060****	6,8	30	70	250	5500	50	800	10/20	
5508080****	8,2	35	75	250	5000	60	700	20	
5508100****	10	40	80	250	4500	60	700	5/10/20	
5508120****	12	40	85	250	4000	60	700	5/10/20	
5508150****	15	40	85	250	3500	70	670	5/10/20	
5508180****	18	45	90	250	3300	70	670	5/10/20	
5508220****	22	45	85	250	2600	90	600	5/10/20	
5508270****	27	50	90	250	2500	90	600	5/10/20	
5508330****	33	45	80	250	2150	120	520	5/10/20	
5508390****	39	50	90	250	2050	100	560	5/10/20	
5508470****	47	45	85	200	1900	130	500	2/5/10/20	
5508560****	56	45	60	200	1700	140	480	2/5/10/20	
5508680****	68	45	60	200	1550	190	410	2/5/10/20	
5508820****	82	40	60	150	1430	210	390	2/5/10/20	
5508101****	100	40	50	150	1310	260	350	2/5/10/20	
5508121****	120	40	45	150	1210	440	270	2/5/10/20	
5508151****	150	35	40	100	1120	440	270	2/5/10/20	
5508181****	180	35	30	100	1030	470	260	2/5/10/20	
5508221****	220	35	-	100	950	550	240	2/5/10/20	
5508271****	270	35	-	100	870	1000	180	2/5/10/20	
5508331****	330	35	-	100	800	1000	180	2/5/10/20	
5508391****	390	35	-	100	730	1900	130	2/5/10/20	
5508471****	470	35	-	100	660	2400	115	2/5/10/20	
5508561****	560	35	-	100	600	3200	100	2/5/10/20	
5598681****	680	35	-	100	550	3700	95	5/10/20	Ferrite
5598821****	820	35	-	100	510	5000	75	5/10/20	
5508681****	680	20	-	25.2	450	500	250	2/5/10/20	
5508821****	820	20	-	2.52	400	550	240	2/5/10/20	
5508102****	1000	20	-	7.96	350	500	250	2/5/10/20	
5508122****	1200	20	-	7.96	300	650	220	2/5/10/20	
5508152****	1500	20	-	7.96	250	750	200	2/5/10/20	
5508182****	1800	20	-	7.96	250	850	190	2/5/10/20	
5508222****	2200	20	-	7.96	200	1700	130	2/5/10/20	
5508272****	2700	20	-	7.96	200	2000	120	2/5/10/20	
5508332****	3300	20	-	7.96	200	3300	100	2/5/10/20	
5508392****	3900	20	-	7.96	150	3600	95	2/5/10/20	
5508472****	4700	20	-	7.96	150	3800	90	2/5/10/20	

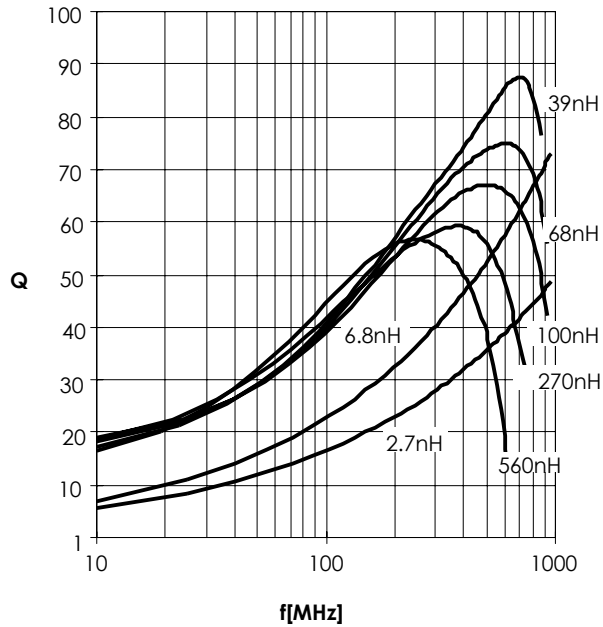
All values up to 560nH on ceramic core –

The values 680nH and 820nH either ceramic or ferrite core – from 1000nH on ferrite core.

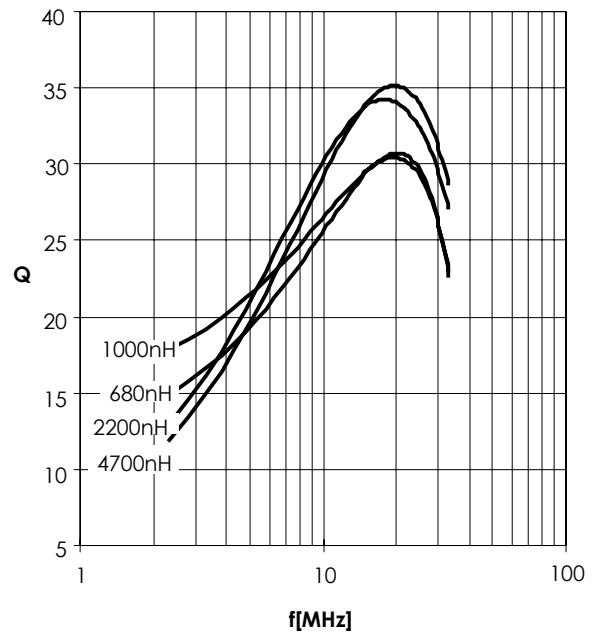
Electrical Characteristic Curves

Q-Factor Vs. Frequency

Coil on ceramic body

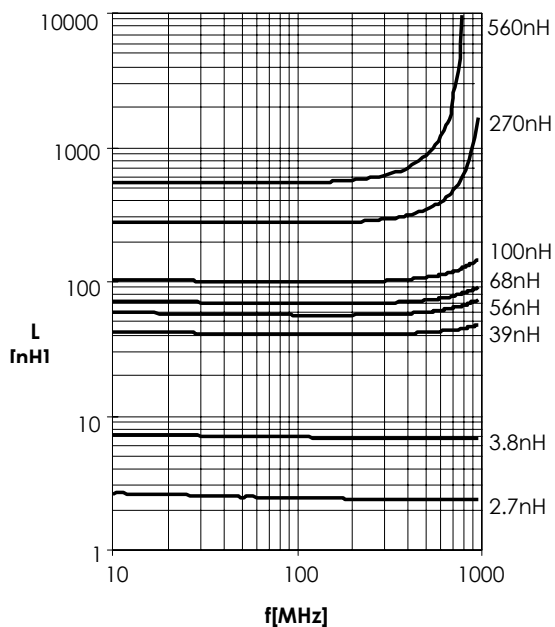


Coil on ferrite body

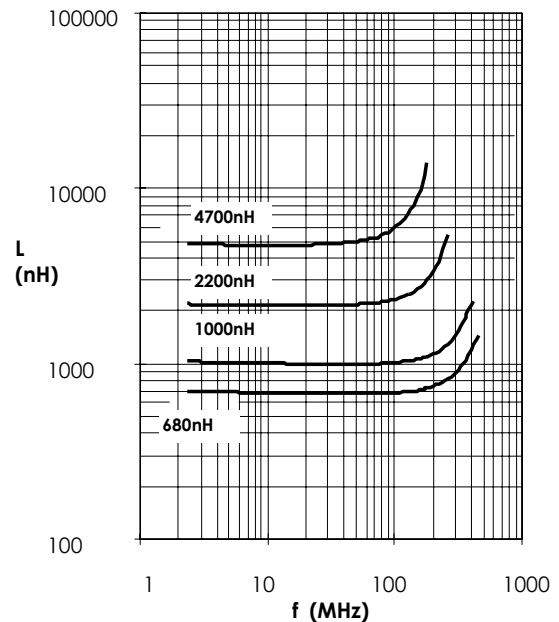


Inductance vs. Frequency

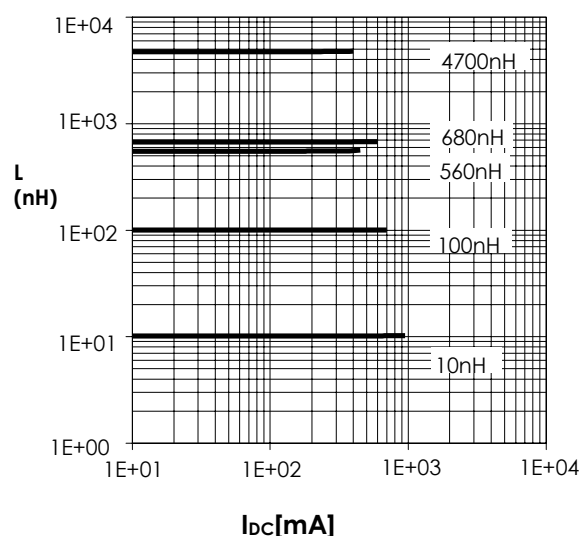
Coil on ceramic body



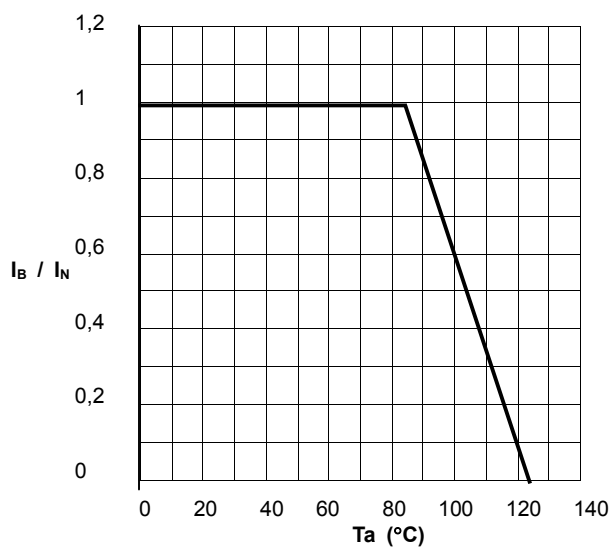
Coil on ferrite body



Inductance L in dependence of direct current I_{DC}



Current-carrying capacity I_{OP}/I_R in depend. Of the ambient temperature T_a



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

Test equipment : Inductance and Q: Agilent 42286A+16193A.

Resonant Frequency : Agilent 8753E.

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