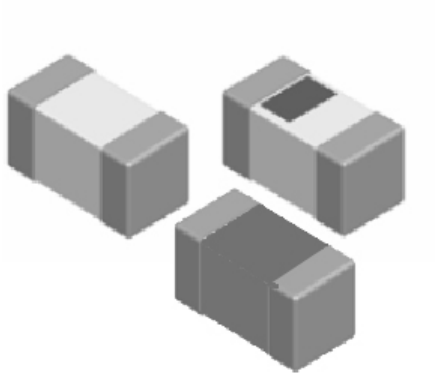
SCC1005C Series

Multilayer Chip Ceramic Inductor

◆ Features

1、Monolithic Structure for high reliability
2、High self-resonant frequency
3、Excellent solderability and high heat resistance
4、RoHS Compliant.



◆ Application

1、RF Circuit of in telecommunication and other Equipments

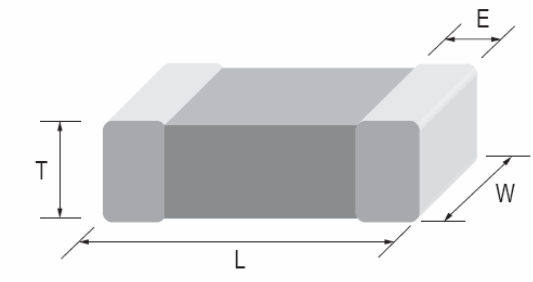
◆ PRODUCT IDENTIFICATION

SCC	1005	C	1N0	S	S	P
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series Type
(2) Chip Size（mm）:Length X Width
(3) Material Code
(4) Inductance：1N0=1nH；10N=10nH
R10=100nH
(5) Inductance Tolerance：S=±0.3;
J=±5%; K=±10%
(6) Company Code
(7) Packaging:P–Embossed paper tape, 7" reel
E- Embossed plastic tape, 7" reel

◆ Dimensions Unit: mm

Size(EIA)	L	W	T	E
	1.00±0.10	0.50±0.10	0.50±0.10	0.25±0.10



◆Specifications

Part Number	Inductance (nH)	Min. Quality Factor (Q)	L, Q Test Freq. L/Q(MHz)	Typical Q @ Freq. (MHz)						Min. Self-resonant Frequency (MHz)	Max. DC Resistance (Ω)	Max. Rated Current (mA)
				100	300	500	800	1000	1800			
				Q								
SCC1005 Series												
SCC1005C1N0SSP	1.0±0.3	8	100	11	21	25	33	35	52	6000	0.1	400
SCC1005C1N1SSP	1.1±0.3	8	100	11	21	25	33	35	52	6000	0.1	400
SCC1005C1N2SSP	1.2±0.3	8	100	11	21	25	33	35	52	6000	0.1	400
SCC1005C1N3SSP	1.3±0.3	8	100	11	21	25	33	35	52	6000	0.12	400
SCC1005C1N5SSP	1.5±0.3	8	100	11	21	25	33	35	52	6000	0.13	400
SCC1005C1N8SSP	1.8±0.3	8	100	10	18	21	29	32	49	6000	0.14	400
SCC1005C2N0SSP	2.0±0.3	8	100	10	17	21	28	32	47	6000	0.15	400
SCC1005C2N2SSP	2.2±0.3	8	100	10	17	21	28	31	47	6000	0.16	400
SCC1005C2N4SSP	2.4±0.3	8	100	10	17	21	28	31	46	5500	0.16	400
SCC1005C2N7SSP	2.7±0.3	8	100	10	17	21	28	31	46	5500	0.17	400
SCC1005C3N0SSP	3.0±0.3	8	100	10	17	21	28	31	46	5500	0.18	400
SCC1005C3N3SSP	3.3±0.3	8	100	10	17	21	28	31	46	5500	0.19	400
SCC1005C3N6SSP	3.6±0.3	8	100	10	17	21	28	31	45	5200	0.22	400
SCC1005C3N9SSP	3.9±0.3	8	100	10	17	21	28	31	45	5200	0.22	400
SCC1005C4N3SSP	4.3±0.3	8	100	10	17	21	28	31	45	4800	0.24	400
SCC1005C4N7SSP	4.7±0.3	8	100	10	17	21	28	31	45	4800	0.24	400
SCC1005C5N1SSP	5.1±0.3	8	100	10	17	21	25	29	44	4600	0.26	400
SCC1005C5N6SSP	5.6±0.3	8	100	10	17	21	25	29	44	4600	0.27	400
SCC1005C6N2SSP	6.2±0.3	8	100	10	17	21	25	29	44	4200	0.3	300
SCC1005C6N8JSP	6.8	8	100	10	18	21	26	30	44	4000	0.32	300
SCC1005C7N5JSP	7.5	8	100	10	18	21	26	30	43	3600	0.37	300
SCC1005C8N2JSP	8.2	8	100	10	18	21	26	30	43	3600	0.37	300
SCC1005C9N1JSP	9.1	8	100	10	18	21	26	30	42	3200	0.42	300
SCC1005C10NJSP	10	8	100	10	18	21	26	30	42	3200	0.42	300
SCC1005C12NJSP	12	8	100	10	17	21	24	27	33	2800	0.5	300
SCC1005C15NJSP	15	8	100	10	17	20	23	26	27	2500	0.55	300

◆Specifications

Part Number	Inductance (nH)	Min. Quality Factor (Q)	L, Q Test Freq. L/Q(MHz)	Typical Q @ Freq. (MHz)						Min. Self-resonant Frequency (MHz)	Max. DC Resistance (Ω)	Max. Rated Current (mA)
				100	300	500	800	1000	1800			
				Q								
SCC1005 Series												
SCC1005C18NJSP	18	8	100	10	17	20	21	23	9	2200	0.65	300
SCC1005C22NJSP	22	8	100	10	18	21	22	23	-	2000	0.8	200
SCC1005C27NJSP	27	8	100	10	18	20	21	22	-	1600	0.9	200
SCC1005C33NJSP	33	8	100	10	18	20	21	21	-	1300	1	200
SCC1005C39NJSP	39	8	100	10	18	19	20	17	-	1200	1.2	150
SCC1005C47NJSP	47	8	100	10	18	19	18	-	-	1000	1.3	150
SCC1005C56NJSP	56	8	100	10	18	19	13	-	-	900	1.6	150
SCC1005C68NJSP	68	8	100	10	18	19	13	-	-	800	2.1	150
SCC1005C82NJSP	82	8	100	10	18	19	13	-	-	750	2.4	150
SCC1005CR10JSP	100	8	100	10	18	19	12	-	-	700	2.6	150
SCC1005CR12JSP	120	8	100	10	18	19	-	-	-	600	2.8	150
SCC1005CR15JSP	150	8	100	10	17	8	-	-	-	550	3.2	100
SCC1005CR18JSP	180	8	100	10	17	-	-	-	-	500	3.7	100
SCC1005CR22JSP	220	8	100	12	14	-	-	-	-	450	4.0	100
SCC1005CR27JSP	270	8	100	12	12	-	-	-	-	400	4.5	100
SCC1005CR30JSP	300	5	50	12	-	-	-	-	-	350	7.0	50
SCC1005CR33JSP	330	5	50	8	-	-	-	-	-	350	7.0	50
SCC1005CR36JSP	360	5	50	12	-	-	-	-	-	300	7.5	50

◆General Technical Data

Operating Temperature Range	-55℃ ~ +125℃
Storage Condition	Less than 40℃ and 70% RH
Soldering Method	Reflow or Wave Soldering

◆ Composition / Information on Ingredients

Product Structure: See Fig.1, Fig. 2 and Fig. 3

Fig.1 Shape

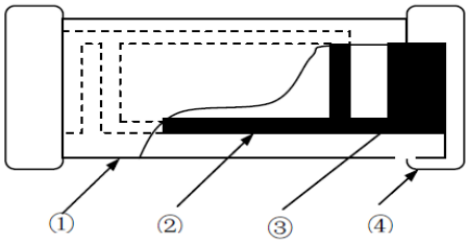


Fig.2 Body Structure

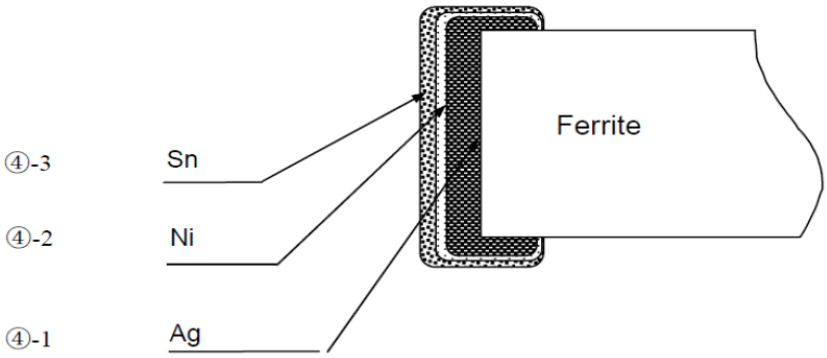


Fig. 3 Structure of Electro-plating

Composition/Information on the Components		
Code	**Material**	**Main Components**
①	Ceramic	Boron Silicate,Al_2O_3, Secret
②	Inner Coil	Silver (Ag)
③	Pull-out Electrode	Silver (Ag)
④-1	Terminal Electrode	Silver (Ag)
④-2	Electrode-plating: Nickel plating	Nickel (Ni)
④-3	Electrode-plating: Sn plating	Tin (Sn)

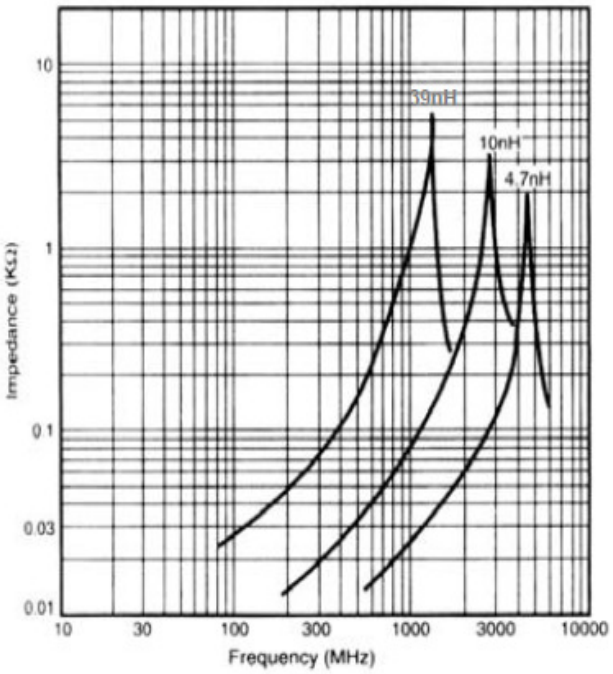
Compositions Wt Rate (Wt%) of Material

Material	Wt Rate (Wt%)	CAS No.
Boron Silicate	51~65	65997-18-4
Al_2O_3	14~17	1344-28-1
Secret	0~5	-
Ag	9~29	7440-22-4
Nickel	1.8~2.3	7440-02-0
Tin	3.6~4.7	7440-31-5

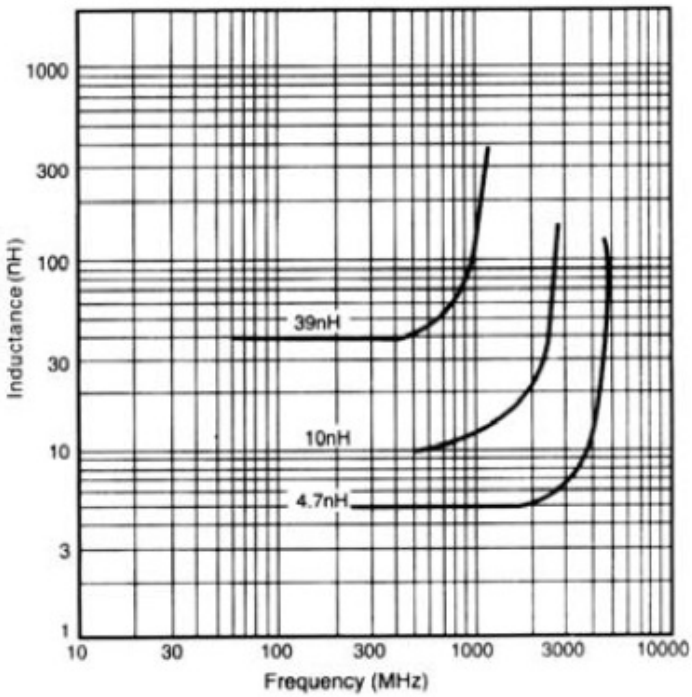
◆ TYPICAL ELECTRICAL CHARACTERISTICS

SCC1005 Series

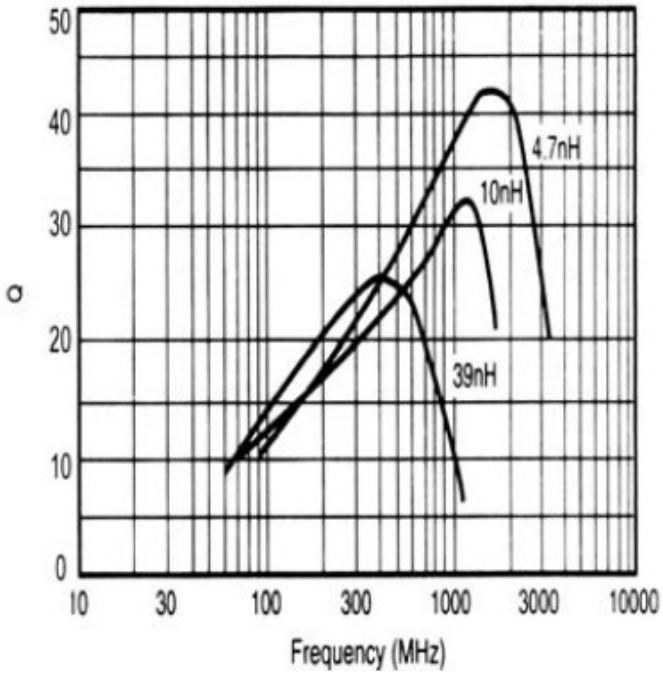
Inductance vs. Frequency Characteristics



Impedance vs. Frequency Characteristics

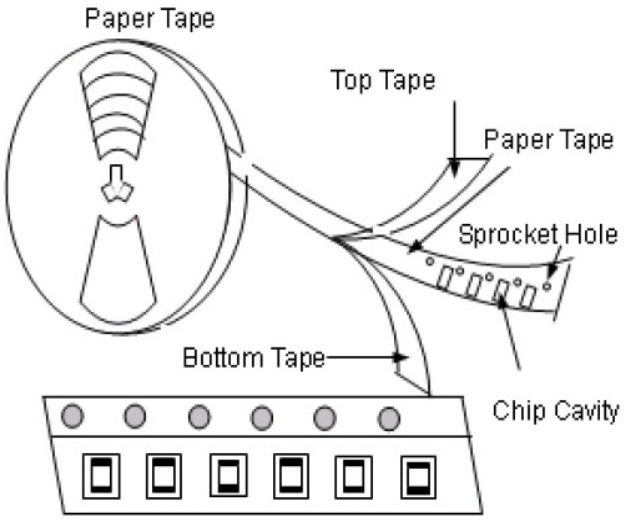


Q vs. Frequency Characteristics



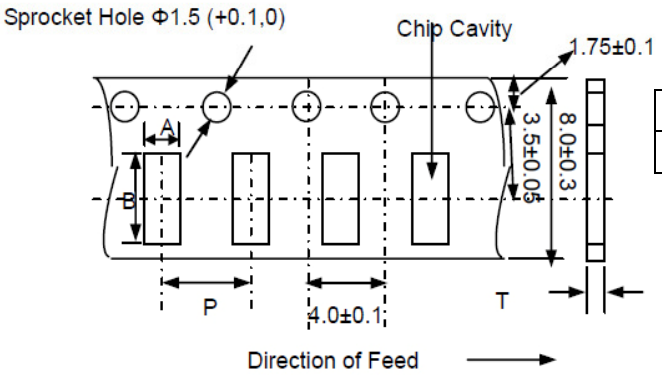
◆ Packaging

(1) Taping Drawings (Unit: mm)



Remark: The sprocket holes are to the right as the tape is pulled toward the user.

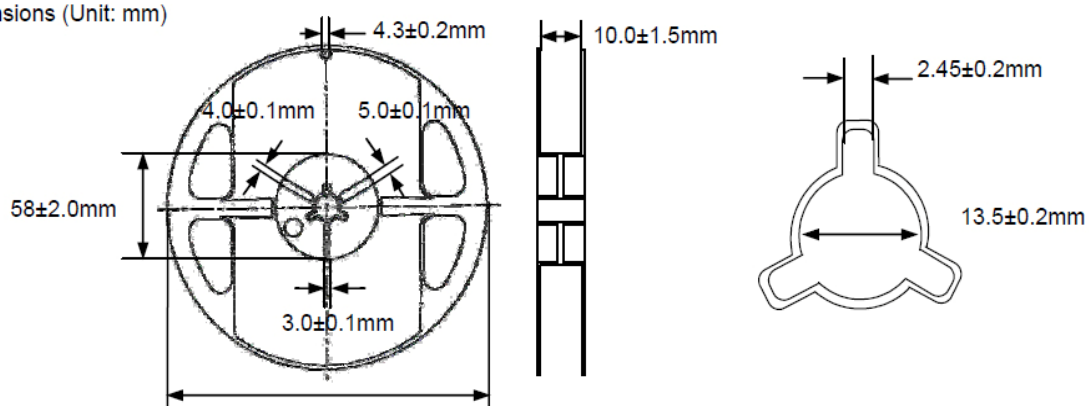
(2) Taping Dimensions (Unit: mm)



Paper Tape

Type	A	B	P	T max	Quantity
1005(0402)	0.065±0.1	1.15±0.1	2.0±0.05	0.8	10K

(3) Reel Dimensions (Unit: mm)



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