

Chip Ceramic Inductors

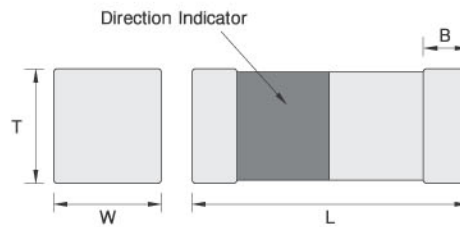
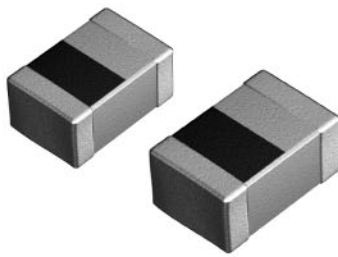
Features

1. Good Reliability(Monolithic Structure)
2. High Q, Stable Inductance in High Frequency
3. Flow/Reflow Solder Application

Applications

1. RF Module
2. PHS, PCS, GSM, CDMA, WLL, IMT-2000

Shape & Dimensions



(Unit : mm)

Model	L	W	T	B
CD1005	1.0±0.1	0.5±0.1	0.5±0.1	0.25±0.1
CD1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2

How to Order(Product Identification)

CD 1608 C 22N J T



1 Series Code

CD : Chip Ceramic Inductors

2 Dimension Code

The first two digits : Length(mm)
The last two digits : Width(mm)

3 Material Code

C : Ceramic

4 Inductance Value Code

N47 = 0.47nH
3N3 = 3.3 nH
56N = 56nH
R22 = 0.22μH

5 Tolerance Code

S (±0.3nH) J (±5%)
K (±10%) M (±20%)

6 Package Code

T : Reel paper packaging
E : Reel embossed tape packaging
B : Bulk packaging

Specifications

CD 1005 Series

Part No.	Inductance		Q Min.	Test Frequency (MHz)	SRF(MHz) Min.	DC Resistance (Ω) Max.	Ratde Current (mA) Max.	T (mm)
	(nH)	Tolerance						
CD1005C1N0	1.0	$\pm 0.3\text{nH}$	8	100	10000	0.12	300	0.5 \pm 0.1
CD1005C1N2	1.2		8	100	10000	0.12	300	
CD1005C1N5	1.5		8	100	6000	0.13	300	
CD1005C1N8	1.8		8	100	6000	0.14	300	
CD1005C2N2	2.2		8	100	6000	0.16	300	
CD1005C2N7	2.7		8	100	6000	0.17	300	
CD1005C3N3	3.3	$\pm 20\%$ $\pm 0.3\text{nH}$	8	100	6000	0.19	300	
CD1005C3N9	3.9		8	100	4000	0.22	300	
CD1005C4N7	4.7		8	100	4000	0.24	300	
CD1005C5N6	5.6		8	100	4000	0.27	300	
CD1005C6N8	6.8	$\pm 10\%$ $\pm 5\%$	8	100	3900	0.32	250	
CD1005C8N2	8.2		8	100	3600	0.37	250	
CD1005C10N	10		8	100	3200	0.42	250	
CD1005C12N	12		8	100	2700	0.50	250	
CD1005C15N	15		8	100	2300	0.55	250	
CD1005C18N	18		8	100	2100	0.65	200	
CD1005C22N	22		8	100	1900	0.8	200	
CD1005C27N	27		8	100	1600	0.9	200	
CD1005C33N	33		8	100	1300	1.0	200	
CD1005C39N	39		8	100	1200	1.2	150	
CD1005C47N	47		8	100	1000	1.3	150	
CD1005C56N	56		8	100	750	1.4	150	
CD1005C68N	68		8	100	750	1.4	150	
CD1005C82N	82		8	100	600	1.6	100	
CD1005CR10	100		8	100	600	1.6	100	
CD1005CR12	120		8	100	600	1.6	100	

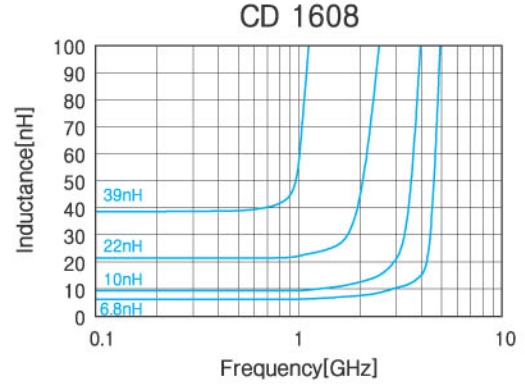
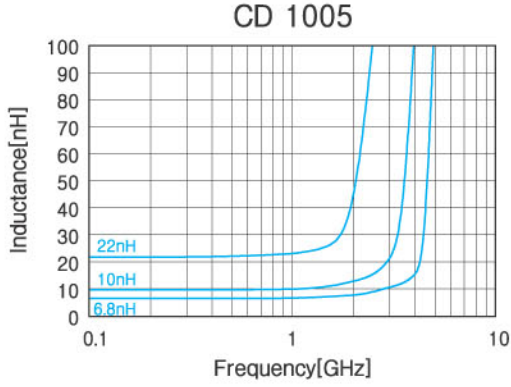
Specifications

CD 1608 Series

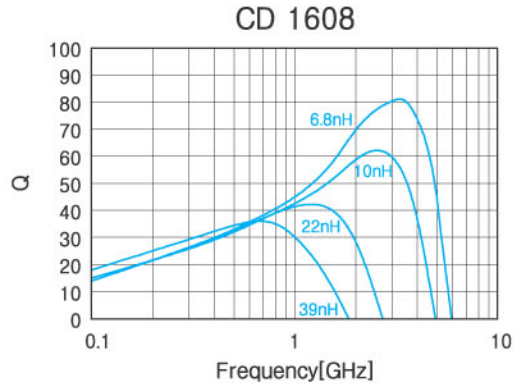
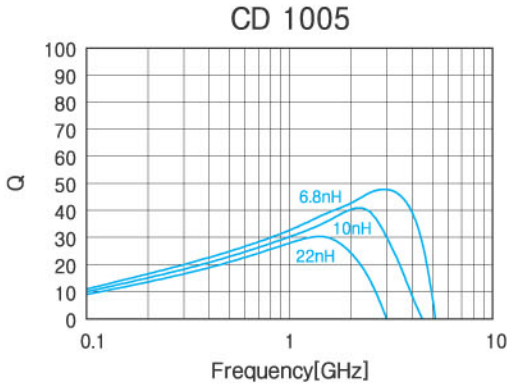
Part No.	Inductance		Q Min.	Test Frequency (MHz)	SRF(MHz) Min.	DC Resistance (Ω) Max.	Rated Current (mA) Max.	T (mm)
	(μ H)	Tolerance						
CD1608C1N0	1.0	$\pm 0.3nH$	8	100	10000	0.05	300	0.8 \pm 0.15
CD1608C1N2	1.2		8	100	10000	0.05	300	
CD1608C1N5	1.5		8	100	6000	0.10	300	
CD1608C1N8	1.8		8	100	6000	0.10	300	
CD1608C2N2	2.2		8	100	6000	0.10	300	
CD1608C2N7	2.7		10	100	6000	0.10	300	
CD1608C3N3	3.3	$\pm 10\%$ $\pm 0.3nH$	10	100	6000	0.12	300	
CD1608C3N9	3.9		10	100	6000	0.14	300	
CD1608C4N7	4.7		10	100	4000	0.16	300	
CD1608C5N6	5.6		10	100	4000	0.18	300	
CD1608C6N8	6.8	$\pm 10\%$ $\pm 5\%$	10	100	4000	0.22	300	
CD1608C8N2	8.2		10	100	3500	0.24	300	
CD1608C10N	10		12	100	3400	0.26	300	
CD1608C12N	12		12	100	2600	0.28	300	
CD1608C15N	15		12	100	2300	0.32	300	
CD1608C18N	18		12	100	2000	0.35	300	
CD1608C22N	22		12	100	1600	0.40	300	
CD1608C27N	27		12	100	1400	0.45	300	
CD1608C33N	33		12	100	1200	0.55	300	
CD1608C39N	39		12	100	1100	0.60	300	
CD1608C47N	47		12	100	900	0.70	300	
CD1608C56N	56		12	100	900	0.75	300	
CD1608C68N	68		12	100	700	0.85	300	
CD1608C82N	82		12	100	600	0.95	300	
CD1608CR10	100		12	100	600	1.0	300	
CD1608CR12	120		8	50	500	1.2	300	
CD1608CR15	150	8	50	500	1.2	300		
CD1608CR18	180	8	50	400	1.3	300		
CD1608CR22	220	8	50	400	1.5	300		

Electrical Characteristics

Inductance Characteristics



Q Characteristics



Impedance Characteristics

