

CHIP CERAMIC INDUCTORS

Features

1. SMD type chip inductors utilizing monolithic structure provide highly reliable surface mount applications.
2. Superior Q characteristics is guaranteed over the wide frequency range to allow high frequency applications.
3. Terminal electrode has excellent solder heat resistance.

Applications

1. RF module of telecommunication products.
-cellular phone, cordless phone, pager etc.
2. GSM phone, PCS phone.
3. Computer communications, Radar detectors.
4. Automotive electronics, Keyless remote.

Ordering Information

$\frac{C}{(1)} - \frac{B}{(2)} \frac{1608}{(3)} - \frac{120}{(4)} \frac{K}{(5)} \frac{J}{(6)} \frac{T}{(7)}$

(1) Series

(3) Dimensions

The first two digits: length(mm)
 The last two digits: width (mm)

(5) Tolerance

S : $\pm 0.3nH$
 J : $\pm 5\%$
 K : $\pm 10\%$

(7) Packing

B : Bulk Pack
 T : Tape & Reel($\varnothing$ 178mm [7 inches])
 L : Tape & Reel($\varnothing$ 254mm [10 inches])

(2) Material

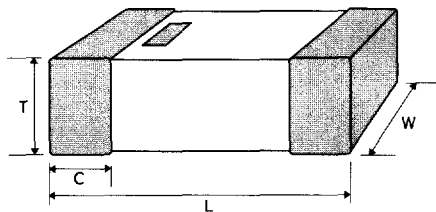
(4) Inductance

The first two digits are significant.
 The last digit is the number of zeros following.
 N : a decimal point placed between first two digits

(6) Termination

J : Nickel barrier

Shape and Dimensions



unit: mm[inches]

Type	L	W	T	C(max.)
CI-□1005-	1.0 $\pm$ 0.10 [.039 $\pm$.004]	0.5 $\pm$ 0.10 [.020 $\pm$.004]	0.5 $\pm$ 0.10 [.020 $\pm$.004]	0.4 [.016]
CI-□1608-	1.6 $\pm$ 0.15 [.063 $\pm$.006]	0.8 $\pm$ 0.15 [.031 $\pm$.006]	0.8 $\pm$ 0.15 [.031 $\pm$.006]	0.5 [.020]
CI-□2012-	2.0 $\pm$ 0.20 [.079 $\pm$.008]	1.25 $\pm$ 0.20 [.049 $\pm$.008]	1.0 $\pm$ 0.20 [.039 $\pm$.008]	0.6 [.024]

※ The polarity mark can be provided upon customer's request.

Specifications

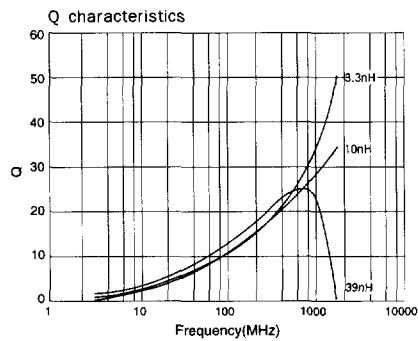
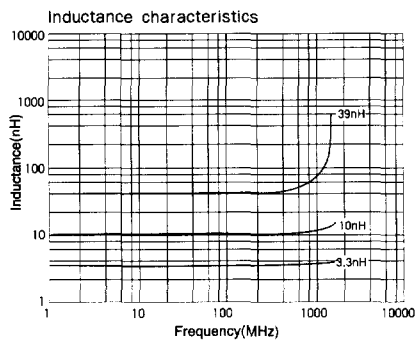
CI1005

Part No.	Inductance		Q 100MHz min.	Q 800MHz min.	Q 1.8GHz min.	SRF(MHz)		DCR (mΩ)max.	Rated Current (mA) max.
	nH	Tolerance				min.	typ.		
CI-B1005-10N□□□	1.0	±0.3nH	8	20	26	6000	13000	100	300
CI-B1005-12N□□□	1.2		8	20	26	6000	10000	120	300
CI-B1005-15N□□□	1.5		8	20	30	6000	10000	120	300
CI-B1005-18N□□□	1.8		8	22	35	6000	9500	140	300
CI-B1005-22N□□□	2.2		8	22	35	6000	9000	160	300
CI-B1005-27N□□□	2.7		8	22	35	6000	9000	200	300
CI-B1005-33N□□□	3.3		8	22	35	6000	8000	220	300
CI-B1005-39N□□□	3.9		8	22	30	4000	6500	250	300
CI-B1005-47N□□□	4.7		8	22	30	4000	5000	280	300
CI-B1005-56N□□□	5.6		8	22	28	4000	5000	300	300
CI-B1005-68N□□□	6.8	±5%	8	22	28	3900	4400	350	300
CI-B1005-82N□□□	8.2		8	20	28	3600	4000	400	250
CI-B1005-100□□□	10		8	20	24	3200	3500	450	250
CI-B1005-120□□□	12		8	20	24	2700	3500	500	200
CI-B1005-150□□□	15		8	20	20	2300	3000	550	200
CI-B1005-180□□□	18		8	20	15	2100	2600	650	200
CI-B1005-220□□□	22		8	20	13	1900	2200	800	200
CI-B1005-270□□□	27		8	17	-	1600	1900	900	200
CI-B1005-330□□□	33		8	16	-	1300	1700	1100	200
CI-B1005-390□□□	39		8	16	-	1200	1600	1200	100
CI-B1005-470□□□	47		8	10	-	1000	1300	1300	100
CI-B1005-560□□□	56		8	-	-	750	900	1400	100
CI-B1005-680□□□	68		8	-	-	700	800	1400	100
CI-B1005-820□□□	82		8	-	-	600	700	1600	100
CI-B1005-101□□□	100		8	-	-	550	650	1600	100

• SRF:Self-Resonant Frequency.

• DCR:DC Resistance

Electrical Characteristics



Specifications

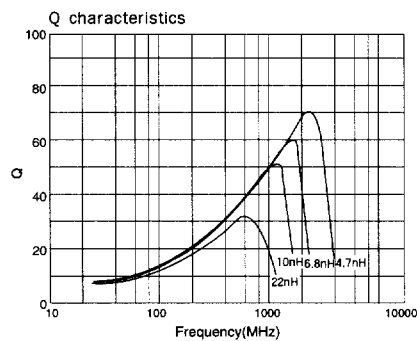
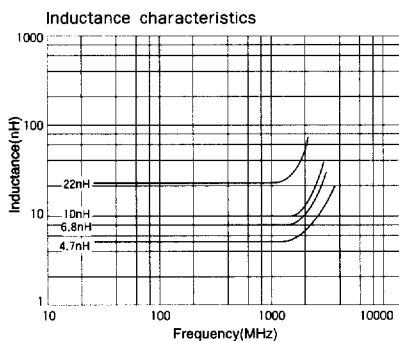
CI1608

Part No.	Inductance		Q min.	L,Q test frequency (MHz)	SRF(MHz)		DCR (m Ω) max.	Rated Current (mA) max.
	nH	Tolerance			min.	typ.		
CI-B1608-10N□□□	1.0	$\pm 0.3\text{nH}$	8	100	4000	13000	100	300
CI-B1608-12N□□□	1.2		8	100	4000	13000	100	300
CI-B1608-15N□□□	1.5		8	100	4000	10000	100	300
CI-B1608-18N□□□	1.8		8	100	3800	10000	120	300
CI-B1608-22N□□□	2.2		8	100	3600	10000	160	300
CI-B1608-27N□□□	2.7		8	100	3400	8000	200	300
CI-B1608-33N□□□	3.3		10	100	3200	6000	220	300
CI-B1608-39N□□□	3.9		10	100	3000	6000	250	300
CI-B1608-47N□□□	4.7		10	100	2800	5000	280	300
CI-B1608-56N□□□	5.6		10	100	2700	5000	290	300
CI-B1608-68N□□□	6.8	$\pm 5\%$ $\pm 10\%$	10	100	2600	4000	300	300
CI-B1608-82N□□□	8.2		10	100	2200	4000	330	300
CI-B1608-100□□□	10		10	100	1800	3000	350	300
CI-B1608-120□□□	12		10	100	1650	2500	400	300
CI-B1608-150□□□	15		10	100	1350	2000	450	300
CI-B1608-180□□□	18		10	100	1350	2000	500	300
CI-B1608-220□□□	22		10	100	1100	1800	550	300
CI-B1608-270□□□	27		10	100	1100	1600	600	300
CI-B1608-330□□□	33		10	100	1000	1400	650	300
CI-B1608-390□□□	39		10	100	900	1300	700	300
CI-B1608-470□□□	47		10	100	800	1300	900	300
CI-B1608-560□□□	56		10	100	700	1100	1000	300
CI-B1608-680□□□	68		10	100	650	1000	1200	300
CI-B1608-820□□□	82		10	100	600	850	1500	300
CI-B1608-101□□□	100		10	100	550	750	1700	300
CI-B1608-121□□□	120		8	100	500	650	2000	250
CI-B1608-151□□□	150		8	100	500	600	2400	200
CI-B1608-181□□□	180		8	100	400	500	2700	200
CI-B1608-221□□□	220		8	100	400	500	2800	200
CI-B1608-271□□□	270		8	100	350	450	3100	200

• SRF:Self-Resonant Frequency.

• DCR:DC Resistance

Electrical Characteristics



Specifications

CI2012

Part No.	Inductance		Q min.	L,Q test frequency (MHz)	SRF(MHz)		DCR (mΩ)max.	Rated Current (mA) max.
	nH	Tolerance			min.	typ.		
CI-B2012-10N□□□	1.0	±0.3nH	10	100	4000	12000	100	300
CI-B2012-12N□□□	1.2		10	100	4000	10000	100	300
CI-B2012-15N□□□	1.5		10	100	4000	10000	100	300
CI-B2012-18N□□□	1.8		10	100	4000	8000	100	300
CI-B2012-22N□□□	2.2		10	100	3800	8000	100	300
CI-B2012-27N□□□	2.7		10	100	3600	6000	100	300
CI-B2012-33N□□□	3.3		10	100	3400	6000	130	300
CI-B2012-39N□□□	3.9		10	100	3200	5400	150	300
CI-B2012-47N□□□	4.7		10	100	3000	4500	200	300
CI-B2012-56N□□□	5.6		10	100	2800	4000	230	300
CI-B2012-68N□□□	6.8	± 5% ±10%	10	100	2600	3650	250	300
CI-B2012-82N□□□	8.2		10	100	2200	3000	280	300
CI-B2012-100□□□	10		10	100	1800	2500	300	300
CI-B2012-120□□□	12		10	100	1650	2450	350	300
CI-B2012-150□□□	15		10	100	1350	2000	400	300
CI-B2012-180□□□	18		10	100	1350	1750	450	300
CI-B2012-220□□□	22		15	100	1100	1500	500	300
CI-B2012-270□□□	27		15	100	1100	1500	550	300
CI-B2012-330□□□	33		15	100	900	1200	600	300
CI-B2012-390□□□	39		15	100	900	1150	650	300
CI-B2012-470□□□	47		15	100	850	1050	700	300
CI-B2012-560□□□	56		15	100	750	1000	750	300
CI-B2012-680□□□	68		15	100	700	950	800	300
CI-B2012-820□□□	82		15	100	600	850	900	300
CI-B2012-101□□□	100		15	100	600	730	1000	300
CI-B2012-121□□□	120		15	50	600	670	1300	250
CI-B2012-151□□□	150		15	50	400	570	1500	250
CI-B2012-181□□□	180		15	50	350	510	1800	250
CI-B2012-221□□□	220		10	50	330	450	2000	250
CI-B2012-271□□□	270		10	50	300	410	2500	250
CI-B2012-331□□□	330		10	50	270	370	3000	250
CI-B2012-391□□□	390		10	50	220	330	3500	250
CI-B2012-471□□□	470		10	50	180	280	4000	250

• SRF:Self-Resonant Frequency.

• DCR:DC Resistance

Electrical Characteristics

