# CHIP CERAMIC INDUCTORS

## Features

1. SMD type chip inductors utilizing monolithic structure provide highly reliable surface mount application.
2. Superior Q characteristics is guaranteed over wide frequency range for high frequency applications.
3. Excellent solder heat resistance for soldering.
4. Lead Free (RoHS Compliant)

## Applications

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

## Ordering Information

CI - B 1608 - 120 K J T
(1) (2) (3) (4) (5) (6) (7)

**(1) Series**

**(2) Material & Design**

**(3) Dimensions**
First two digits : length(mm)
Last two digits : width(mm)

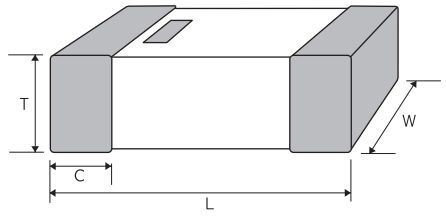
**(4) Inductance**
First two digits are values.
Last digit is the number of zeros.
N : a decimal point placed between first two digits.

**(5) Tolerance**
S : ± 0.3nH
J : ± 5%
K : ± 10%.

**(6) Termination**
J : Nickel barrier

**(7) Packaging**
B : Bulk Package
T : Tape & Reel (ø 178mm [ 7 inches ])
L : Tape & Reel (ø 254mm [ 10 inches ])

## Shape and Dimensions




unit : mm[inches]

| Type | L | W | T | C |
|---|---|---|---|---|
| CI-□0603- | 0.6±0.03 [.024±.001] | 0.3±0.03 [.012±.001] | 0.3±0.03 [.012±.001] | 0.15±0.05 [.006±.002] |
| CI-□1005- | 1.0±0.10 [.039±.004] | 0.5±0.10 [.020±.004] | 0.5±0.10 [.020±.004] | 0.20±0.10 [.008±.004] |
| CI-□1608- | 1.6±0.15 [.063±.006] | 0.8±0.15 [.031±.006] | 0.8±0.15 [.031±.006] | 0.30±0.20 [.012±.008] |
| CI-□2012- | 2.0±0.20 [.079±.008] | 1.25±0.20 [.049±.008] | 1.0±0.20 [.039±.008] | 0.50±0.30 [.020±.012] |

※The polarity mark available upon request.

## Specifications

CI0603

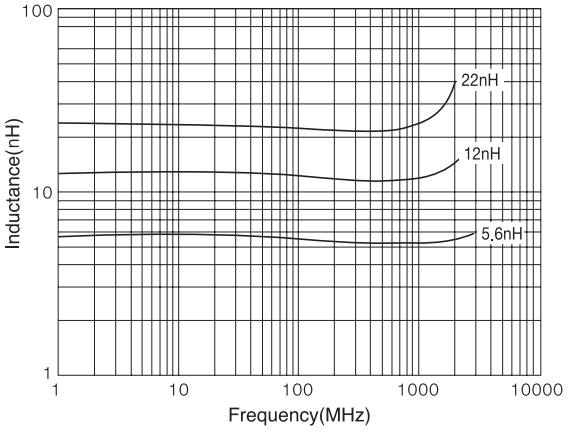
| Part No. | Inductance | | Q(min.) | Q(typ.) | | | SRF(MHz) | DCR (mΩ)max | Rated Current (mA) max. |
|---|---|---|---|---|---|---|---|---|---|
| | nH | Tolerance | 100MHz | 100MHz | 800MHz | 1.8GHz | min. | | |
| CI-B0603-10N | 1.0 | ±0.3nH | 4 | 5 | 15 | 25 | > 13000 | 200 | 300 |
| CI-B0603-12N | 1.2 | | 4 | 5 | 15 | 25 | > 13000 | 200 | 300 |
| CI-B0603-15N | 1.5 | | 4 | 5 | 15 | 25 | > 13000 | 300 | 300 |
| CI-B0603-18N | 1.8 | | 4 | 5 | 15 | 25 | > 13000 | 300 | 300 |
| CI-B0603-22N | 2.2 | | 4 | 5 | 17 | 25 | 12500 | 350 | 300 |
| CI-B0603-27N | 2.7 | | 4 | 5 | 17 | 25 | 11000 | 400 | 300 |
| CI-B0603-33N | 3.3 | | 4 | 5 | 17 | 26 | 9600 | 450 | 300 |
| CI-B0603-39N | 3.9 | | 4 | 5 | 17 | 26 | 8600 | 500 | 300 |
| CI-B0603-47N | 4.7 | | 4 | 5 | 17 | 26 | 7600 | 550 | 300 |
| CI-B0603-56N | 5.6 | | 4 | 5 | 17 | 26 | 6600 | 600 | 300 |
| CI-B0603-68N | 6.8 | ± 5% | 4 | 6 | 18 | 25 | 5600 | 700 | 250 |
| CI-B0603-82N | 8.2 | | 4 | 6 | 18 | 25 | 4900 | 800 | 250 |
| CI-B0603-100 | 10 | | 4 | 6 | 18 | 25 | 4200 | 900 | 250 |
| CI-B0603-120 | 12 | | 4 | 6 | 20 | - | 3000 | 1100 | 250 |
| CI-B0603-150 | 15 | | 4 | 6 | 20 | - | 2700 | 1200 | 250 |
| CI-B0603-180 | 18 | | 4 | 6 | 20 | - | 2400 | 1400 | 200 |
| CI-B0603-220 | 22 | | 4 | 6 | 20 | - | 2000 | 1700 | 200 |

**Test Equipment & Fixture**

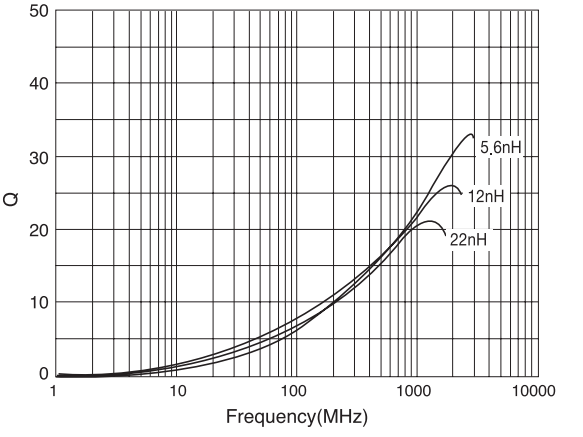
L, Q : RF Impedance Analyzer 4991A(Agilent), Test Fixture 16196C(Agilent)
SRF : Network Analyzer 8722ES (Agilent),
Rdc : TWA-161A, B

## Electrical Characteristics

Inductance Characteristics




Q Characteristics






* All specifications are subject to change without notice

## Specifications

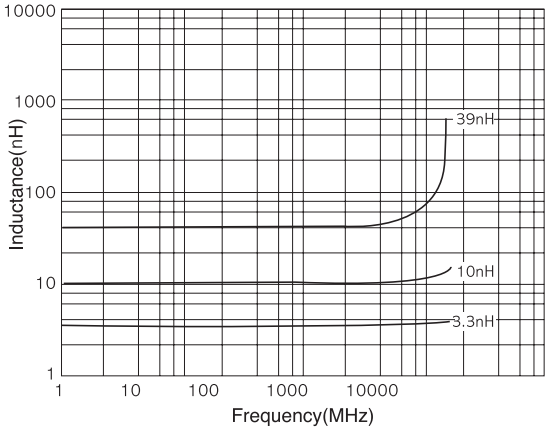
CI1005

| 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 | - | | 350 | 650 | 2000 | 100 |

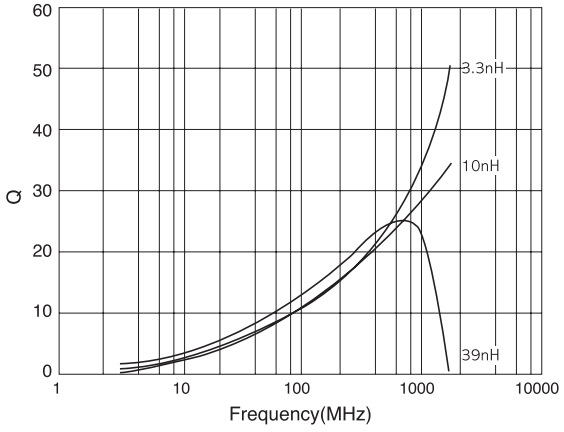
· SRF : Self-Resonant Frequency. · DCR : DC Resistance

## Electrical Characteristics

Inductance Characteristics




Q Characteristics



## Specifications

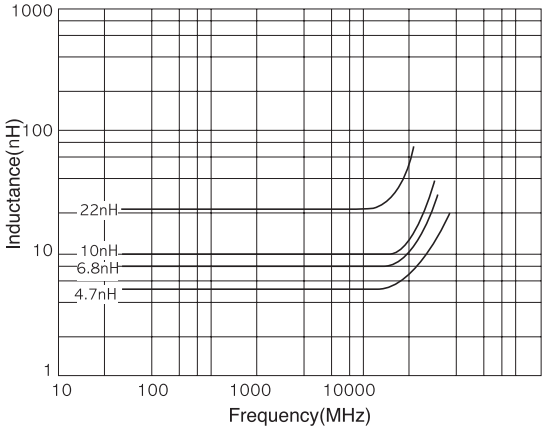
CI1608

| Part No. | Inductance | | Q min. | L,Q test frequency (MHz) | SRF(MHz) | | DCR (mΩ)max | Rated Current (mA) max. |
|---|---|---|---|---|---|---|---|---|
| | nH | Tolerance | | | min. | typ. | | |
| CI-B1608-10N□□□ | 1.0 | ±0.3nH | 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 | ± 5%<br>±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 | 50 | 500 | 650 | 2000 | 250 |
| CI-B1608-151□□□ | 150 | | 8 | 50 | 500 | 600 | 2400 | 200 |
| CI-B1608-181□□□ | 180 | | 8 | 50 | 400 | 500 | 2700 | 200 |
| CI-B1608-221□□□ | 220 | | 8 | 50 | 400 | 500 | 2800 | 200 |
| CI-B1608-271□□□ | 270 | | 8 | 50 | 350 | 450 | 3100 | 200 |

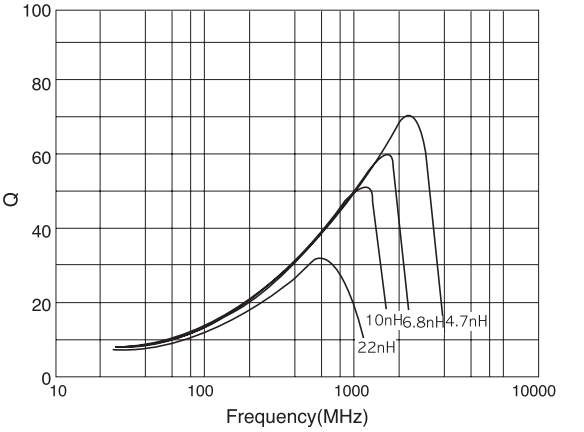
· SRF : Self-Resonant Frequency. · DCR : DC Resistance

## Electrical Characteristics

Inductance Characteristics




Q Characteristics






* All specifications are subject to change without notice

## Specifications

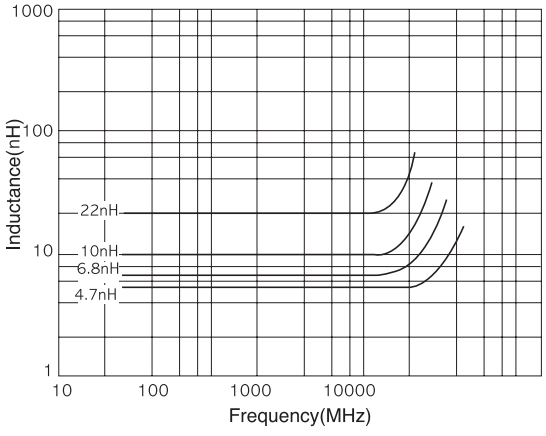
CI2012

| 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%<br>±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 | 500 | 730 | 1000 | 300 |
| CI-B2012-121□□□ | 120 | | 15 | 50 | 450 | 630 | 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 |

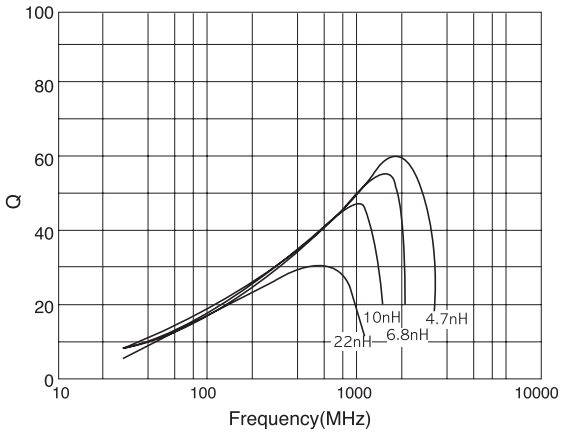
· SRF : Self-Resonant Frequency. · DCR : DC Resistance

## Electrical Characteristics

### Inductance Characteristics




### Q Characteristics




* All specifications are subject to change without notice

# CHIP FERRITE INDUCTORS

## Features

1. Ideal for high density surface mount applications as magnetic shield eliminates crosstalk.
2. Highly reliable in wide temperature and humidity range. Superior Q characteristics in wide frequency.
3. Terminal electrode has excellent solder heat resistance.
4. Lead Free (RoHS Compliant)

## Applications

1. Prevention of electromagnetic interference to signals on the secondary side of electronic equipment.

## Ordering Information

| FI | - | A | 1608 | - | 680 | K | J | T |
|---|---|---|---|---|---|---|---|---|
| (1) | | (2) | (3) | | (4) | (5) | (6) | (7) |

(1) Series

(2) Material & Design

(3) Dimensions
First two digits : length(mm)
Last two digits : width(mm)

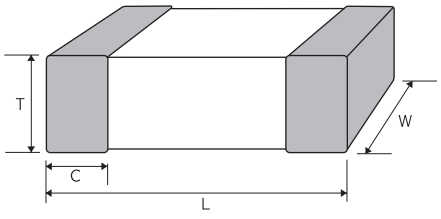
(4) Inductance

(5) Tolerance
K : ± 10%
M : ± 20%.

(6) Termination
J : Nickel barrier

(7) Packaging
B : Bulk Package
T : Tape & Reel (ø 178mm [ 7 inches ])
L : Tape & Reel (ø 254mm [ 10 inches ])

## Shape and Dimensions




unit : mm[inches]

| Type | L | W | T | C |
|---|---|---|---|---|
| FI-□1608- | 1.6±0.15 [.063±.006] | 0.8±0.15 [.031±.006] | 0.8±0.15 [.031±.006] | 0.30±0.20 [.012±.008] |
| FI-□2012- | 2.0±0.2 [.079±.008] | 1.25±0.2 [.049±.008] | 0.85±0.2 [.033±.008] | 0.50±0.30 [.020±.012] |
| | 2.0±0.2 [.079±.008] | 1.25±0.2 [.049±.008] | 1.25±0.2 [.049±.008] | 0.50±0.30 [.020±.012] |
| FI-□3216- | 3.2±0.2 [.126±.008] | 1.6±0.2 [.063±.008] | 1.3±0.2 [.051±.008] | 0.50±0.30 [.020±.012] |

## Specifications

### FI1608

| Part No. | Inductance | | Q | | L,Q test frequency (MHz) | SRF(MHz) | | DCR(mΩ) | | Rated Current (mA) max. |
|---|---|---|---|---|---|---|---|---|---|---|
| | μH | Tolerance | min. | typ. | | min. | typ. | max. | typ. | |
| FI-A1608-270□□□ | 0.027 | ±10% ±20% | 10 | 45 | 50 | 260 | 350 | 90 | 60 | 200 |
| FI-A1608-470□□□ | 0.047 | | 10 | 45 | 50 | 260 | 320 | 150 | 100 | 200 |
| FI-A1608-560□□□ | 0.056 | | 10 | 45 | 50 | 255 | 300 | 200 | 90 | 200 |
| FI-A1608-680□□□ | 0.068 | | 10 | 45 | 50 | 250 | 290 | 200 | 90 | 200 |
| FI-A1608-820□□□ | 0.082 | | 10 | 45 | 50 | 245 | 280 | 250 | 120 | 200 |
| FI-A1608-101□□□ | 0.10 | | 15 | 30 | 25 | 240 | 270 | 250 | 140 | 200 |
| FI-A1608-121□□□ | 0.12 | | 15 | 30 | 25 | 205 | 260 | 300 | 150 | 200 |
| FI-A1608-151□□□ | 0.15 | | 15 | 30 | 25 | 180 | 250 | 350 | 180 | 200 |
| FI-A1608-181□□□ | 0.18 | | 15 | 30 | 25 | 165 | 220 | 400 | 190 | 200 |
| FI-A1608-221□□□ | 0.22 | | 15 | 30 | 25 | 150 | 200 | 400 | 190 | 200 |
| FI-A1608-271□□□ | 0.27 | | 15 | 30 | 25 | 136 | 190 | 500 | 270 | 200 |
| FI-A1608-331□□□ | 0.33 | | 15 | 30 | 25 | 125 | 180 | 550 | 280 | 150 |
| FI-A1608-391□□□ | 0.39 | | 15 | 30 | 25 | 110 | 170 | 600 | 300 | 150 |
| FI-A1608-471□□□ | 0.47 | | 15 | 30 | 25 | 105 | 160 | 700 | 390 | 150 |
| FI-A1608-561□□□ | 0.56 | | 15 | 30 | 25 | 95 | 150 | 900 | 500 | 150 |
| FI-A1608-681□□□ | 0.68 | | 15 | 30 | 25 | 80 | 140 | 900 | 500 | 150 |
| FI-A1608-821□□□ | 0.82 | | 15 | 30 | 25 | 75 | 130 | 1600 | 800 | 100 |
| FI-B1608-102□□□ | 1.0 | | 35 | 50 | 10 | 70 | 95 | 500 | 250 | 100 |
| FI-B1608-122□□□ | 1.2 | | 35 | 50 | 10 | 60 | 80 | 600 | 250 | 100 |
| FI-B1608-152□□□ | 1.5 | | 35 | 50 | 10 | 55 | 70 | 650 | 300 | 50 |
| FI-B1608-182□□□ | 1.8 | | 35 | 50 | 10 | 50 | 70 | 750 | 350 | 50 |
| FI-B1608-222□□□ | 2.2 | | 35 | 50 | 10 | 45 | 60 | 900 | 450 | 50 |
| FI-B1608-272□□□ | 2.7 | | 35 | 50 | 10 | 40 | 55 | 1000 | 600 | 50 |

· SRF : Self-Resonant Frequency. · DCR : DC Resistance
※ Parts with other Inductance Tolerance( 'J' ±5%) available upon request.

### FI2012

| Part No. | Inductance | | Q | | L,Q test frequency (MHz) | SRF(MHz) | | DCR(mΩ) | | Rated Current (mA) max. |
|---|---|---|---|---|---|---|---|---|---|---|
| | μH | Tolerance | min. | typ. | | min. | typ. | max. | typ. | |
| FI-A2012-470□□□ | 0.047 | ±10% ±20% | 20 | 60 | 50 | 320 | 400 | 100 | 50 | 300 |
| FI-A2012-560□□□ | 0.056 | | 20 | 60 | 50 | 300 | 380 | 150 | 80 | 300 |
| FI-A2012-680□□□ | 0.068 | | 20 | 60 | 50 | 280 | 350 | 200 | 80 | 300 |
| FI-A2012-820□□□ | 0.082 | | 20 | 60 | 50 | 255 | 320 | 200 | 80 | 300 |
| FI-A2012-101□□□ | 0.10 | | 25 | 50 | 25 | 235 | 300 | 200 | 90 | 250 |
| FI-A2012-121□□□ | 0.12 | | 25 | 50 | 25 | 220 | 280 | 200 | 65 | 250 |
| FI-A2012-151□□□ | 0.15 | | 25 | 50 | 25 | 200 | 250 | 200 | 60 | 250 |
| FI-A2012-181□□□ | 0.18 | | 25 | 50 | 25 | 185 | 230 | 200 | 100 | 250 |
| FI-A2012-221□□□ | 0.22 | | 25 | 50 | 25 | 170 | 220 | 250 | 100 | 250 |
| FI-A2012-271□□□ | 0.27 | | 25 | 50 | 25 | 150 | 200 | 300 | 150 | 250 |
| FI-A2012-331□□□ | 0.33 | | 25 | 50 | 25 | 145 | 180 | 300 | 150 | 250 |
| FI-A2012-391□□□ | 0.39 | | 30 | 50 | 25 | 135 | 170 | 400 | 190 | 200 |
| FI-A2012-471□□□ | 0.47 | | 30 | 50 | 25 | 125 | 160 | 400 | 190 | 200 |
| FI-A2012-561□□□ | 0.56 | | 30 | 50 | 25 | 115 | 150 | 400 | 280 | 150 |
| FI-A2012-681□□□ | 0.68 | | 30 | 50 | 25 | 105 | 135 | 500 | 300 | 150 |
| FI-A2012-821□□□ | 0.82 | | 30 | 50 | 25 | 100 | 125 | 600 | 350 | 150 |
| FI-B2012-102□□□ | 1.0 | | 45 | 75 | 10 | 75 | 105 | 300 | 120 | 100 |
| FI-B2012-122□□□ | 1.2 | | 45 | 75 | 10 | 65 | 95 | 400 | 140 | 100 |
| FI-B2012-152□□□ | 1.5 | | 45 | 75 | 10 | 60 | 85 | 400 | 140 | 100 |
| FI-B2012-182□□□ | 1.8 | | 45 | 75 | 10 | 55 | 75 | 400 | 160 | 100 |
| FI-B2012-222□□□ | 2.2 | | 45 | 80 | 10 | 50 | 70 | 400 | 200 | 50 |
| FI-B2012-272□□□ | 2.7 | | 45 | 80 | 10 | 45 | 65 | 500 | 250 | 50 |
| FI-B2012-332□□□ | 3.3 | | 45 | 80 | 10 | 40 | 55 | 500 | 270 | 50 |
| FI-B2012-392□□□ | 3.9 | | 45 | 80 | 10 | 38 | 50 | 700 | 500 | 50 |
| FI-B2012-472□□□ | 4.7 | | 45 | 80 | 10 | 35 | 48 | 1000 | 700 | 50 |

· SRF : Self-Resonant Frequency. · DCR : DC Resistance
※ Parts with other Inductance Tolerance( 'J' ±5%) available upon request.

## Specifications

### FI2012

| Part No. | Inductance | | Q | | L,Q test frequency (MHz) | SRF(MHz) | | DCR(mΩ) | | Rated Current (mA) max. |
|---|---|---|---|---|---|---|---|---|---|---|
| | μH | Tolerance | min. | typ. | | min. | typ. | max. | typ. | |
| FI-C2012-562□□□ | 5.6 | ±10% ±20% | 50 | 60 | 4 | 32 | 45 | 500 | 250 | 50 |
| FI-C2012-682□□□ | 6.8 | | 50 | 60 | 4 | 29 | 40 | 600 | 330 | 25 |
| FI-C2012-822□□□ | 8.2 | | 50 | 60 | 4 | 26 | 36 | 700 | 380 | 25 |
| FI-C2012-103□□□ | 10.0 | | 50 | 60 | 2 | 24 | 33 | 800 | 450 | 25 |
| FI-C2012-123□□□ | 12.0 | | 50 | 60 | 2 | 22 | 30 | 800 | 470 | 25 |
| FI-D2012-153□□□ | 15.0 | | 30 | 40 | 1 | 19 | 27 | 600 | 400 | 15 |
| FI-D2012-183□□□ | 18.0 | | 30 | 40 | 1 | 18 | 25 | 700 | 450 | 15 |
| FI-D2012-223□□□ | 22.0 | | 30 | 40 | 1 | 16 | 22 | 800 | 500 | 5 |
| FI-D2012-273□□□ | 27.0 | | 30 | 40 | 1 | 14 | 20 | 900 | 550 | 5 |
| FI-D2012-333□□□ | 33.0 | | 30 | 40 | 0.4 | 13 | 18 | 1000 | 600 | 5 |

· SRF : Self-Resonant Frequency. · DCR : DC Resistance

### FI3216

| Part No. | Inductance | | Q | | L,Q test frequency (MHz) | SRF(MHz) | | DCR(mΩ) | | Rated Current (mA) max. |
|---|---|---|---|---|---|---|---|---|---|---|
| | μH | Tolerance | min. | typ. | | min. | typ. | max. | typ. | |
| FI-A3216-470□□□ | 0.047 | ±10% ±20% | 20 | 60 | 50 | 320 | 400 | 150 | 80 | 300 |
| FI-A3216-560□□□ | 0.056 | | 20 | 60 | 50 | 300 | 360 | 150 | 80 | 300 |
| FI-A3216-680□□□ | 0.068 | | 20 | 60 | 50 | 280 | 330 | 150 | 100 | 300 |
| FI-A3216-820□□□ | 0.082 | | 20 | 60 | 50 | 255 | 300 | 150 | 100 | 300 |
| FI-A3216-101□□□ | 0.10 | | 25 | 50 | 25 | 235 | 280 | 200 | 100 | 250 |
| FI-A3216-121□□□ | 0.12 | | 25 | 50 | 25 | 220 | 260 | 200 | 100 | 250 |
| FI-A3216-151□□□ | 0.15 | | 25 | 50 | 25 | 200 | 240 | 200 | 100 | 250 |
| FI-A3216-181□□□ | 0.18 | | 25 | 50 | 25 | 185 | 220 | 200 | 100 | 250 |
| FI-A3216-221□□□ | 0.22 | | 25 | 50 | 25 | 170 | 200 | 250 | 120 | 250 |
| FI-A3216-271□□□ | 0.27 | | 25 | 50 | 25 | 150 | 180 | 250 | 120 | 250 |
| FI-A3216-331□□□ | 0.33 | | 25 | 50 | 25 | 145 | 170 | 300 | 130 | 250 |
| FI-A3216-391□□□ | 0.39 | | 30 | 50 | 25 | 135 | 160 | 300 | 150 | 200 |
| FI-A3216-471□□□ | 0.47 | | 30 | 50 | 25 | 125 | 145 | 300 | 150 | 200 |
| FI-A3216-561□□□ | 0.56 | | 30 | 50 | 25 | 115 | 135 | 350 | 170 | 150 |
| FI-A3216-681□□□ | 0.68 | | 30 | 50 | 25 | 105 | 125 | 350 | 250 | 150 |
| FI-A3216-821□□□ | 0.82 | | 30 | 50 | 25 | 100 | 115 | 400 | 300 | 150 |
| FI-B3216-102□□□ | 1.0 | | 45 | 80 | 10 | 75 | 90 | 250 | 130 | 100 |
| FI-B3216-122□□□ | 1.2 | | 45 | 80 | 10 | 65 | 80 | 300 | 150 | 100 |
| FI-B3216-152□□□ | 1.5 | | 45 | 80 | 10 | 60 | 70 | 300 | 170 | 100 |
| FI-B3216-182□□□ | 1.8 | | 45 | 80 | 10 | 55 | 66 | 500 | 250 | 100 |
| FI-B3216-222□□□ | 2.2 | | 45 | 80 | 10 | 50 | 58 | 600 | 300 | 50 |
| FI-B3216-272□□□ | 2.7 | | 45 | 80 | 10 | 45 | 53 | 600 | 300 | 50 |
| FI-B3216-332□□□ | 3.3 | | 45 | 85 | 10 | 41 | 49 | 700 | 350 | 50 |
| FI-B3216-392□□□ | 3.9 | | 45 | 85 | 10 | 38 | 45 | 800 | 400 | 50 |
| FI-B3216-472□□□ | 4.7 | | 45 | 85 | 10 | 35 | 41 | 800 | 400 | 50 |
| FI-C3216-562□□□ | 5.6 | | 50 | 65 | 4 | 32 | 38 | 600 | 300 | 50 |
| FI-C3216-682□□□ | 6.8 | | 50 | 65 | 4 | 29 | 34 | 600 | 300 | 50 |
| FI-C3216-822□□□ | 8.2 | | 50 | 65 | 4 | 26 | 31 | 600 | 330 | 50 |
| FI-C3216-103□□□ | 10.0 | | 50 | 65 | 2 | 24 | 28 | 700 | 380 | 50 |
| FI-C3216-123□□□ | 12.0 | | 50 | 65 | 2 | 22 | 26 | 900 | 450 | 25 |
| FI-C3216-153□□□ | 15.0 | | 35 | 45 | 1 | 19 | 23 | 1100 | 550 | 25 |
| FI-C3216-183□□□ | 18.0 | | 35 | 45 | 1 | 18 | 21 | 1500 | 800 | 25 |
| FI-C3216-223□□□ | 22.0 | | 35 | 45 | 1 | 16 | 19 | 1500 | 800 | 25 |
| FI-C3216-273□□□ | 27.0 | | 35 | 45 | 1 | 14 | 17 | 1500 | 800 | 25 |
| FI-C3216-333□□□ | 33.0 | | 35 | 45 | 0.4 | 13 | 16 | 1600 | 850 | 25 |

· SRF : Self-Resonant Frequency. · DCR : DC Resistance

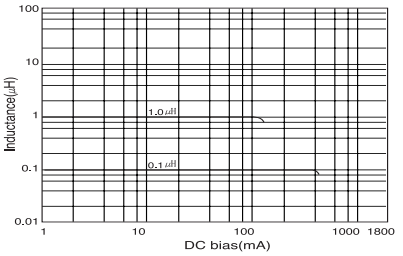
※ Test equipment : HP4291A + HP16192A
: HP4295A + HP16334A

※ Parts with other Inductance Tolerance( 'J' ±5%) available upon request.

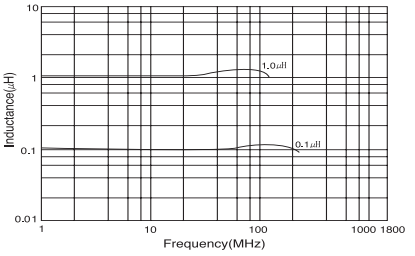
## Electrical Characteristics

### 1608

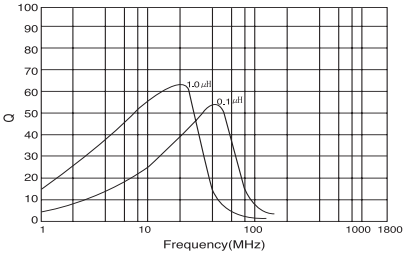
DC bias characteristics



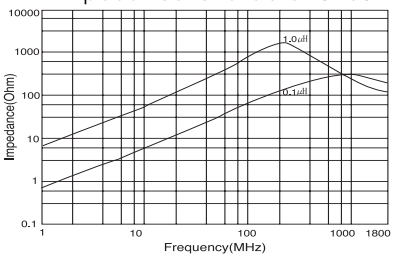

Inductance characteristics



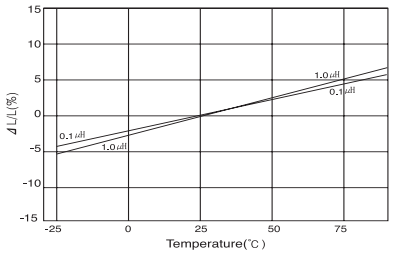

Q characteristics




Impedance characteristics

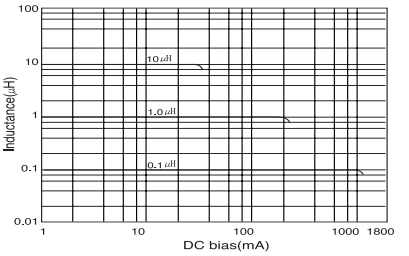



Temperature characteristics

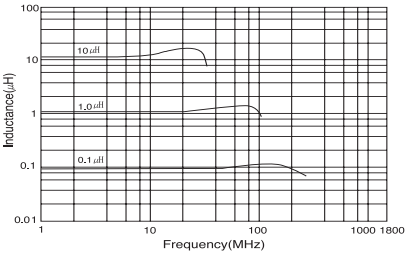



### 2012

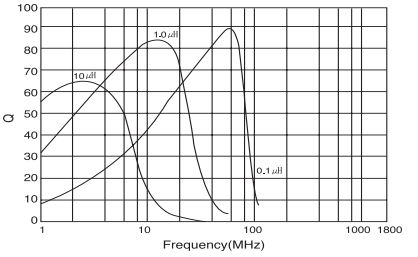
DC bias characteristics



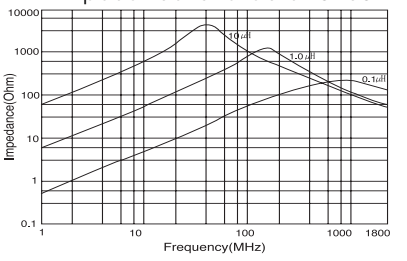

Inductance characteristics



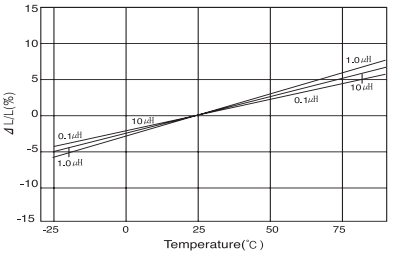

Q characteristics




Impedance characteristics

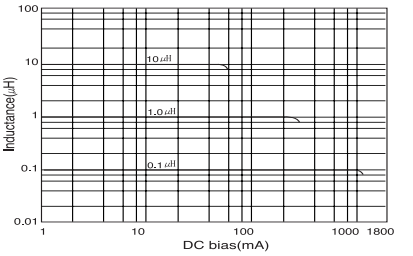



Temperature characteristics

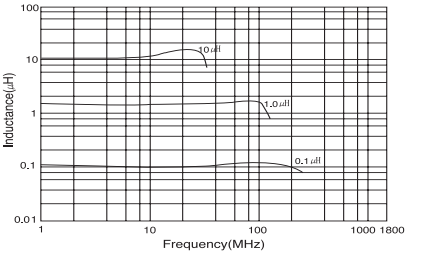



### 3216

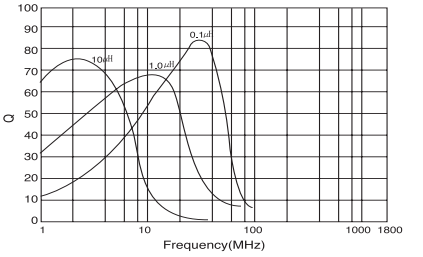
DC bias characteristics



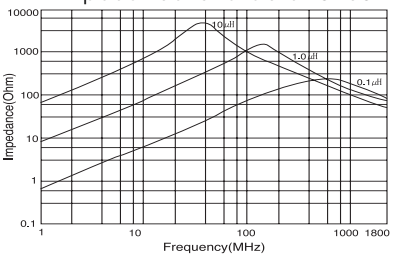

Inductance characteristics



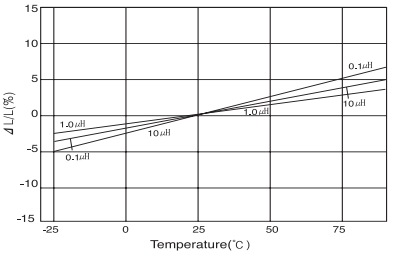

Q characteristics




Impedance characteristics




Temperature characteristics






* All specifications are subject to change without notice