

CI Series Specification

1 Scope: This specification applies to MULTILAYER CHIP FERRITE BEADS

2 Shape And Dimensions



| Type | Dimensions in mm | | | |
|--------|------------------|-----------|-----------|---------------------------------|
| | L | W | T | a ₁ , a ₂ |
| CI1608 | 1.60±0.15 | 0.80±0.15 | 0.80±0.15 | 0.30±0.20 |
| CI2012 | 2.00±0.20 | 1.25±0.20 | 0.80±0.20 | 0.4±0.20 |
| CI3216 | 3.20±0.20 | 1.60±0.20 | 0.80±0.20 | 0.50±0.30 |

3 Part Numbering: Product Identification

CI 1608 C 100 K T (f)
 ① ② ③ ④ ⑤ ⑥ ⑦

- (1) Product symbol 系列代号:
- (2) Dimensions 尺寸: Length 长 (L) × Width 宽 (W)
- (3) Material code 材料代号:
- (4) Inductance 电感量: 100: 10uH; 2R7: 2.7μH; R27: 0.27μH
- (5) Tolerance 允许偏差: J—±5% K—±10% M—±20%
- (6) Packing style 包装方式: B: Bulk 散装; T: Tape and reel 载带盘装
- (7) Leadfree products 无铅产品: 据客户要求

4 Test Equipment

- HP4287A PACKED RF LCR METER;
- HP4338B MILLIOHM METER;
- CHEN HUA 502BC OHM METER;
- E4991A RF IMPEDANCANALYZER.

5 Rating

Operating Temperature (使用温度): -40°C~+125°C
 Storage Temperature (储存温度): 40°C max. 70% RH max.

6 Test Data For Preproduction Samples

铁氧体叠层片式电感器电性能

CI1608型

| 产品类型 | 电感量 (μH) | Q 值 min | L、Q 测定频率 (MHz) | 自谐频率 (MHz) | 直流电阻 (Ω)max | 额定电流 (mA) |
|-------------|--------------------------|------------|-------------------|---------------|-------------------------|--------------|
| CI1608A56N□ | 0.056 | 15 | 50 | 300 | 0.30 | 50 |
| CI1608A68N□ | 0.068 | 10 | 50 | 250 | 0.30 | 50 |
| CI1608A82N□ | 0.082 | 10 | 50 | 245 | 0.30 | 50 |
| CI1608AR10□ | 0.1 | 15 | 25 | 240 | 0.50 | 50 |
| CI1608AR12□ | 0.12 | 15 | 25 | 205 | 0.50 | 50 |
| CI1608AR15□ | 0.15 | 15 | 25 | 180 | 0.60 | 50 |
| CI1608AR18□ | 0.18 | 15 | 25 | 165 | 0.60 | 50 |
| CI1608AR22□ | 0.22 | 15 | 25 | 150 | 0.80 | 50 |
| CI1608AR27□ | 0.27 | 15 | 25 | 136 | 0.80 | 50 |
| CI1608AR33□ | 0.33 | 15 | 25 | 125 | 0.85 | 35 |
| CI1608AR39□ | 0.39 | 15 | 25 | 110 | 1.00 | 35 |
| CI1608AR47□ | 0.47 | 15 | 25 | 105 | 1.35 | 35 |
| CI1608AR56□ | 0.56 | 15 | 25 | 95 | 1.55 | 35 |
| CI1608AR68□ | 0.68 | 15 | 25 | 80 | 1.70 | 35 |
| CI1608AR82□ | 0.82 | 15 | 25 | 75 | 2.10 | 35 |
| CI1608B1R0□ | 1.0 | 35 | 10 | 70 | 0.60 | 25 |
| CI1608B1R2□ | 1.2 | 35 | 10 | 60 | 0.80 | 25 |
| CI1608B1R5□ | 1.5 | 35 | 10 | 55 | 0.80 | 25 |
| CI1608B1R8□ | 1.8 | 35 | 10 | 50 | 0.95 | 25 |
| CI1608B2R2□ | 2.2 | 35 | 10 | 45 | 1.15 | 15 |
| CI1608B2R7□ | 2.7 | 35 | 10 | 40 | 1.35 | 15 |
| CI1608B3R3□ | 3.3 | 35 | 10 | 38 | 1.55 | 15 |
| CI1608B3R9□ | 3.9 | 35 | 10 | 36 | 1.70 | 15 |
| CI1608B4R7□ | 4.7 | 35 | 10 | 33 | 2.10 | 15 |
| CI1608C5R6□ | 5.6 | 35 | 4 | 22 | 1.55 | 5 |
| CI1608C6R8□ | 6.8 | 35 | 4 | 20 | 1.70 | 5 |
| CI1608C8R2□ | 8.2 | 35 | 4 | 18 | 2.10 | 5 |
| CI1608C100□ | 10 | 35 | 2 | 17 | 2.55 | 5 |
| CI1608C120□ | 12 | 35 | 2 | 15 | 2.75 | 5 |
| CI1608D150□ | 15 | 20 | 1 | 14 | 1.70 | 1 |

□:表示电感量偏差代号为 J、K 或者 M。J: $\pm 5\%$; K: $\pm 10\%$; M: $\pm 20\%$

CI2012型

| 产品类型 | 电感量 (μH) | Q 值 min | L、Q 测定频率 (MHz) | 自谐频率 (MHz) | 直流电阻 (Ω)max | 额定电流 (mA) |
|-------------|--------------------------|------------|-------------------|---------------|-------------------------|--------------|
| CI2012A47N□ | 0.047 | 15 | 50 | 320 | 0.2 | 300 |
| CI2012A56N□ | 0.056 | 20 | 50 | 300 | 0.2 | 300 |
| CI2012A68N□ | 0.068 | 15 | 50 | 280 | 0.2 | 300 |
| CI2012A82N□ | 0.082 | 15 | 50 | 255 | 0.2 | 300 |
| CI2012AR10□ | 0.10 | 20 | 25 | 235 | 0.3 | 250 |
| CI2012AR12□ | 0.12 | 20 | 25 | 220 | 0.3 | 250 |
| CI2012AR15□ | 0.15 | 20 | 25 | 200 | 0.4 | 250 |
| CI2012AR18□ | 0.18 | 20 | 25 | 185 | 0.4 | 250 |
| CI2012AR22□ | 0.22 | 20 | 25 | 170 | 0.5 | 250 |
| CI2012AR27□ | 0.27 | 20 | 25 | 150 | 0.5 | 250 |
| CI2012AR33□ | 0.33 | 20 | 25 | 145 | 0.55 | 250 |
| CI2012AR39□ | 0.39 | 25 | 25 | 135 | 0.65 | 200 |
| CI2012AR47□ | 0.47 | 25 | 25 | 125 | 0.65 | 200 |
| CI2012AR56□ | 0.56 | 25 | 25 | 115 | 0.75 | 150 |
| CI2012AR68□ | 0.68 | 25 | 25 | 105 | 0.8 | 150 |
| CI2012AR82□ | 0.82 | 25 | 25 | 100 | 1.0 | 150 |
| CI2012B1R0□ | 1.0 | 45 | 10 | 75 | 0.4 | 50 |
| CI2012B1R2□ | 1.2 | 45 | 10 | 65 | 0.5 | 50 |
| CI2012B1R5□ | 1.5 | 45 | 10 | 60 | 0.5 | 50 |
| CI2012B1R8□ | 1.8 | 45 | 10 | 55 | 0.6 | 50 |
| CI2012B2R2□ | 2.2 | 45 | 10 | 50 | 0.65 | 30 |
| CI2012B2R7□ | 2.7 | 45 | 10 | 45 | 0.75 | 30 |
| CI2012B3R3□ | 3.3 | 45 | 10 | 41 | 0.8 | 30 |
| CI2012B3R9□ | 3.9 | 45 | 10 | 38 | 0.9 | 30 |
| CI2012B4R7□ | 4.7 | 45 | 10 | 35 | 1.0 | 30 |
| CI2012C5R6□ | 5.6 | 50 | 4 | 32 | 0.9 | 15 |
| CI2012C6R8□ | 6.8 | 50 | 4 | 29 | 1.0 | 15 |
| CI2012C8R2□ | 8.2 | 50 | 4 | 26 | 1.1 | 15 |
| CI2012C100□ | 10 | 50 | 2 | 24 | 1.15 | 15 |
| CI2012C120□ | 12 | 50 | 2 | 22 | 1.25 | 15 |
| CI2012D150□ | 15 | 30 | 1 | 19 | 0.8 | 5 |
| CI2012D180□ | 18 | 30 | 1 | 18 | 0.9 | 5 |
| CI2012D220□ | 22 | 30 | 1 | 16 | 1.1 | 5 |

□：表示电感量偏差代号为 J、K 或者 M。J：±5%；K：±10%；M：±20%。

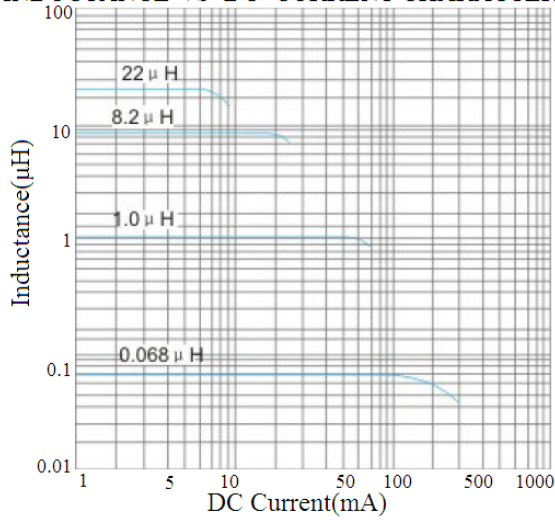
CI3216型

| 产品类型 | 电感量 (μH) | Q 值 min | L、Q 测定频率 (MHz) | 自谐频率 (MHz) | 直流电阻 (Ω)max | 额定电流 (mA) |
|-------------|--------------------------|------------|-------------------|---------------|-------------------------|--------------|
| CI3216A47N□ | 0.047 | 20 | 50 | 320 | 0.15 | 300 |
| CI3216A68N□ | 0.068 | 20 | 50 | 280 | 0.25 | 300 |
| CI3216A82N□ | 0.082 | 20 | 50 | 255 | 0.25 | 250 |
| CI3216AR10□ | 0.10 | 20 | 25 | 235 | 0.25 | 250 |
| CI3216AR18□ | 0.18 | 20 | 25 | 185 | 0.40 | 250 |
| CI3216AR22□ | 0.22 | 20 | 25 | 170 | 0.40 | 250 |
| CI3216AR27□ | 0.27 | 20 | 25 | 150 | 0.50 | 250 |
| CI3216AR33□ | 0.33 | 20 | 25 | 145 | 0.60 | 250 |
| CI3216AR47□ | 0.47 | 25 | 25 | 125 | 0.60 | 200 |
| CI3216AR56□ | 0.56 | 25 | 25 | 112 | 0.70 | 150 |
| CI3216AR82□ | 0.82 | 25 | 25 | 100 | 0.90 | 150 |
| CI3216B1R0□ | 1.0 | 45 | 10 | 75 | 0.40 | 100 |
| CI3216B1R2□ | 1.2 | 45 | 10 | 65 | 0.50 | 100 |
| CI3216B1R5□ | 1.5 | 45 | 10 | 60 | 0.50 | 50 |
| CI3216B1R8□ | 1.8 | 45 | 10 | 55 | 0.50 | 50 |
| CI3216B2R2□ | 2.2 | 45 | 10 | 50 | 0.60 | 50 |
| CI3216B2R7□ | 2.7 | 45 | 10 | 45 | 0.60 | 50 |
| CI3216B3R3□ | 3.3 | 45 | 10 | 41 | 0.70 | 50 |
| CI3216B3R9□ | 3.9 | 45 | 10 | 38 | 0.80 | 50 |
| CI3216B4R7□ | 4.7 | 45 | 10 | 35 | 0.90 | 50 |
| CI3216C5R6□ | 5.6 | 50 | 4 | 32 | 0.70 | 25 |
| CI3216C6R8□ | 6.8 | 50 | 4 | 29 | 0.80 | 25 |
| CI3216C8R2□ | 8.2 | 50 | 4 | 26 | 0.90 | 25 |
| CI3216C100□ | 10 | 50 | 2 | 24 | 1.00 | 25 |
| CI3216C120□ | 12 | 50 | 2 | 22 | 1.05 | 15 |
| CI3216D150□ | 15 | 35 | 1 | 19 | 0.70 | 5 |
| CI3216D180□ | 18 | 35 | 1 | 18 | 0.70 | 5 |
| CI3216D220□ | 22 | 35 | 1 | 16 | 0.90 | 5 |

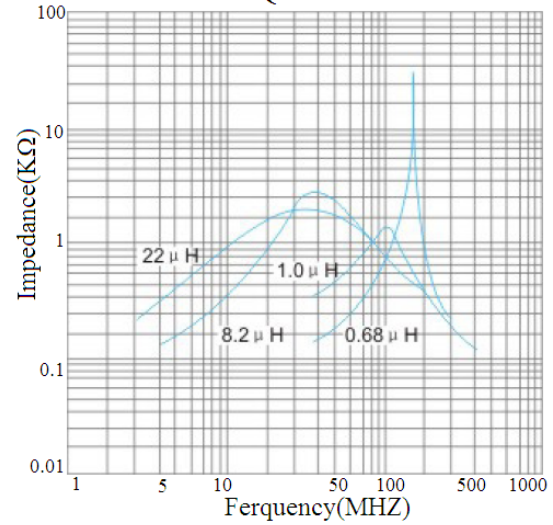
□：表示电感量偏差代号为 J、K 或者 M。J: $\pm 5\%$; K: $\pm 10\%$; M: $\pm 20\%$ 。

CI1608 TYPE

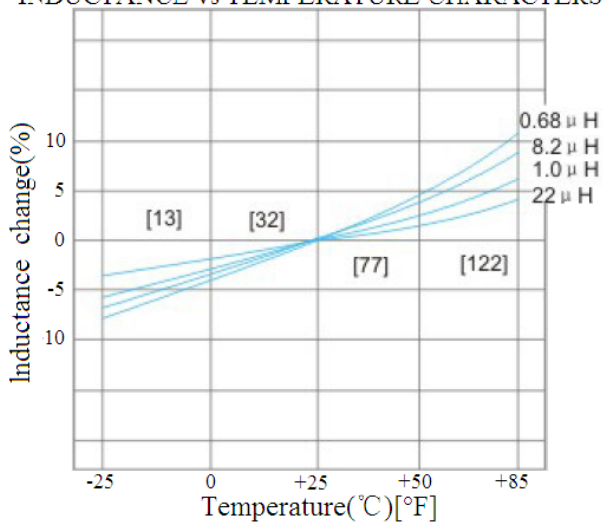
INDUCTANCE VS DC CURRENT CHARACTERISTICS



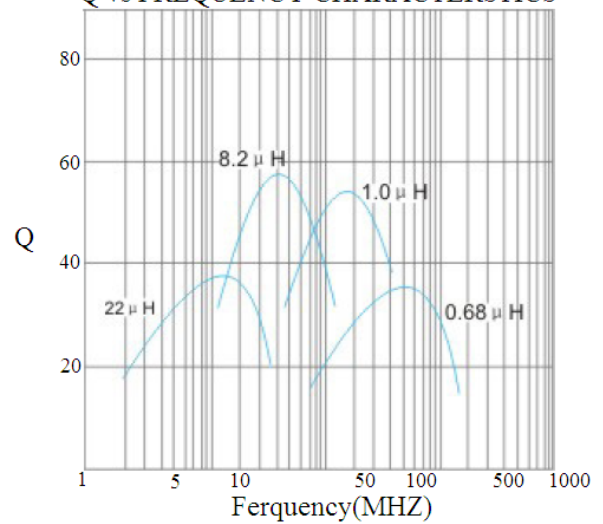
IMPEDANCE VS FREQUENCY CHARACTERISTICS



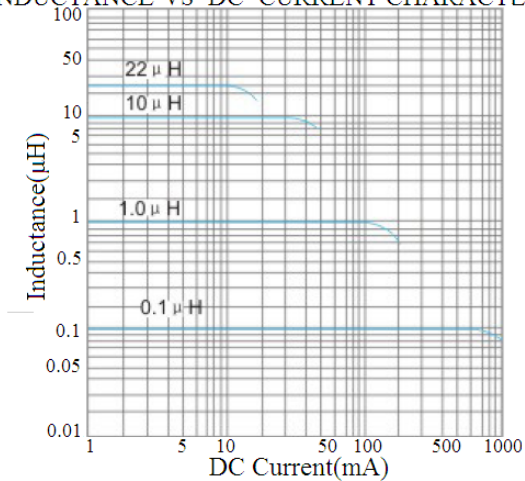
INDUCTANCE vs TEMPERATURE CHARACTERISTICS



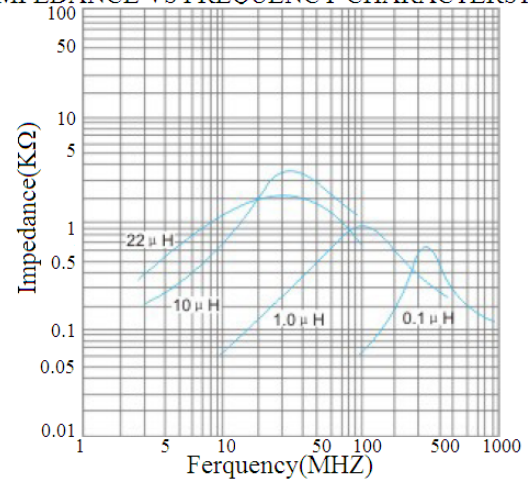
Q vs FREQUENCY CHARACTERISTICS

**CI2012 TYPE**

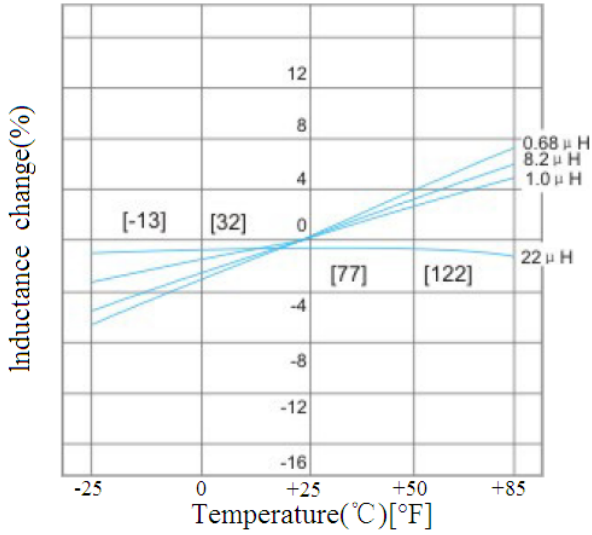
INDUCTANCE VS DC CURRENT CHARACTERISTICS



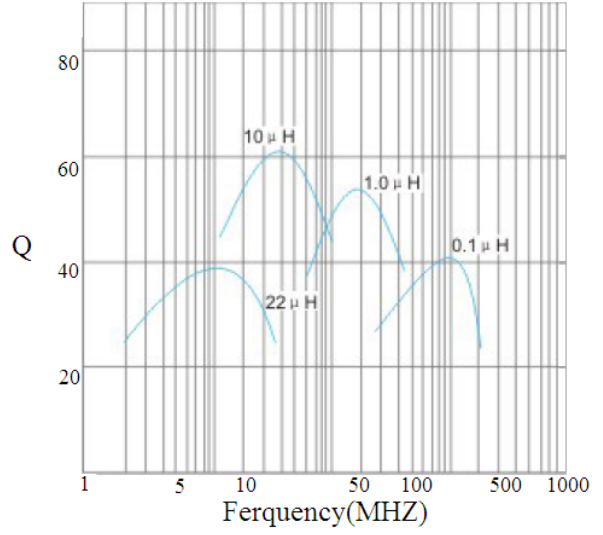
IMPEDANCE VS FREQUENCY CHARACTERISTICS



INDUCTANCE vs TEMPERATURE CHARACTERISTICS

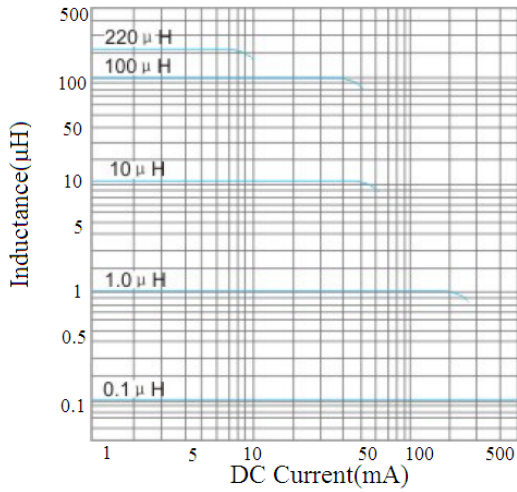


Q vs FREQUENCY CHARACTERISTICS

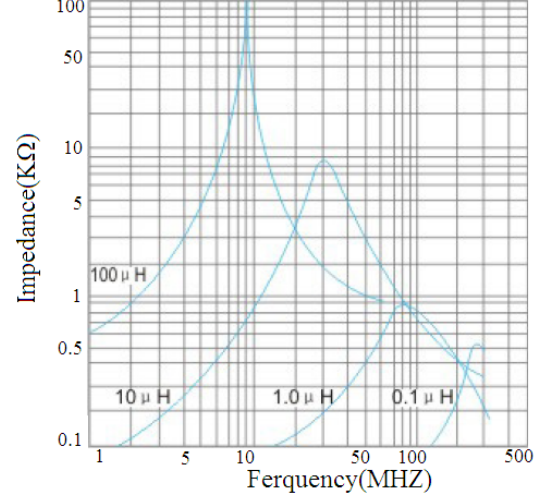


CI3216 TYPE

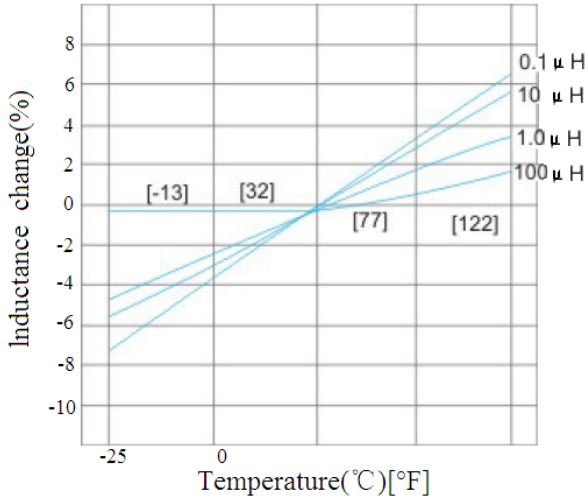
INDUCTANCE VS DC CURRENT CHARACTERISTICS



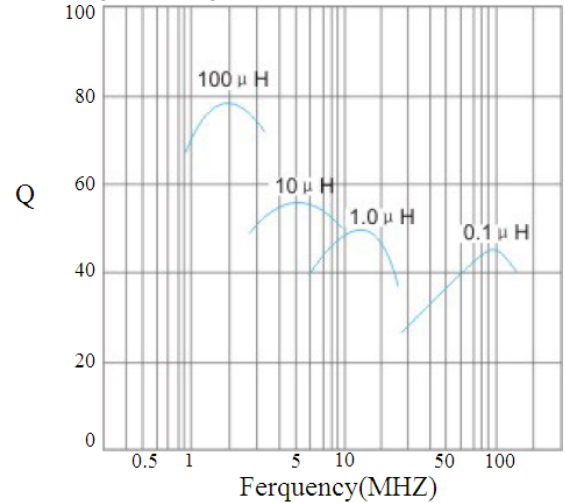
IMPEDANCE VS FREQUENCY CHARACTERISTICS



INDUCTANCE vs TEMPERATURE CHARACTERISTICS



Q vs FREQUENCY CHARACTERISTICS



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