# Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

## FEATURES 特点

- Mnolithic construction yields high reliability
  独石结构，高可靠性
- High self-resonant frequency 高自谐振频率
- Excellent solderability and heat resistance for either flow or reflow soldering 良好的可焊性和耐焊性

## APPLICATIONS 应用

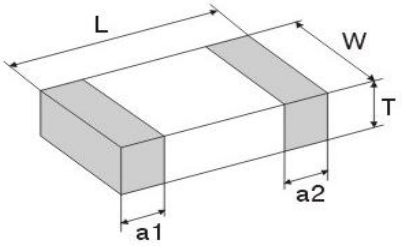
- High frequency circuits of telecommunication. 通讯产品的射频模块
- Mobile phones such as GSM, CDMA, PDC, etc. GSM、CDMA、PDC手机
- "Bluetooth" 蓝牙模块
- Other High frequency circuits in general 其它高频线路应用中

## Product Identification 产品标识

| MGCI | 1608 | H | 10N | J | T | - | LF |
|---|---|---|---|---|---|---|---|
| ① | ② | ③ | ④ | ⑤ | ⑥ | | ⑦ |

① Series name 系列名称
② Dimension 产品尺寸 L×W：【1608: 1.6mm×0.8mm】
③Material code 材料代码
④Inductance 电感量：【3N3=3.3 nH 10N=10 nH R10=100 nH】
⑤Tolerance of Inductance 电感量公差：【S:±0.3nH D:±0.5nH J: ±5% K: ±10%】
⑥Packing Style：【 T: Taping 编带盘装 B: Bulk 散装】
⑦ Lead free products 无铅产品

## Shapes And Dimensions 外形及尺寸示意图




| Type 型号 | Dimensions (mm) [inch] | | | |
|---|---|---|---|---|
| | L长 | W宽 | T高 | a1, a2 |
| 0603 [0201] | 0.60±0.05 [0.024±0.002] | 0.30±0.05 [0.012±0.002] | 0.30±0.05 [0.012±0.002] | 0.10±0.20 [0.004~0.008] |
| 1005 [0402] | 1.00±0.15 [0.04±0.006] | 0.50±0.15 [0.02±0.006] | 0.50±0.15 [0.02±0.006] | 0.25±0.10 [0.01±0.004] |
| 1608 [0603] | 1.60±0.15 [0.063±0.006] | 0.80±0.15 [0.031±0.006] | 0.80±0.15 [0.031±0.006] | 0.30±0.20 [0.012±0.008] |
| 2012 [0805] | 2.00±0.20 [0.079±0.008] | 1.25±0.20 [0.049±0.008] | 0.85±0.20 [0.033±0.008] | 0.50±0.30 [0.02±0.012] |

# Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

## Electrical Characteristics 电气性能

MGCI 0603H (0201) Series

| Part No. | L(nH) | L Test Freq. (MHz) | Q Min | | | SRF(MHz) Min. | DCR(Ω) Max. | Ir(mA) (max) |
|---|---|---|---|---|---|---|---|---|
| | | | 100 MHz | 800 MHz | 1800 MHz | | | |
| MGCI0603H1N0 □ | 1.0 | 100 | 4 | 12 | 19 | 12000 | 0.20 | 300 |
| MGCI0603H1N2 □ | 1.2 | 100 | 4 | 12 | 18 | 11000 | 0.22 | 300 |
| MGCI0603H1N5 □ | 1.5 | 100 | 4 | 12 | 18 | 11000 | 0.24 | 300 |
| MGCI0603H1N8 □ | 1.8 | 100 | 4 | 11 | 17 | 10000 | 0.27 | 300 |
| MGCI0603H2N2 □ | 2.2 | 100 | 4 | 12 | 19 | 10000 | 0.30 | 300 |
| MGCI0603H2N4 □ | 2.4 | 100 | 4 | 12 | 19 | 10000 | 0.30 | 300 |
| MGCI0603H2N7 □ | 2.7 | 100 | 4 | 13 | 19 | 10000 | 0.35 | 300 |
| MGCI0603H2N9 □ | 2.9 | 100 | 4 | 13 | 19 | 10000 | 0.35 | 300 |
| MGCI0603H3N3 □ | 3.3 | 100 | 4 | 13 | 19 | 10000 | 0.40 | 200 |
| MGCI0603H3N9 □ | 3.9 | 100 | 4 | 13 | 19 | 9000 | 0.45 | 200 |
| MGC0603H4N7 □ | 4.7 | 100 | 5 | 13 | 19 | 8500 | 0.50 | 200 |
| MGCI0603H5N6 □ | 5.6 | 100 | 5 | 12 | 18 | 8500 | 0.60 | 200 |
| MGCI0603H6N2 □ | 6.2 | 100 | 5 | 13 | 19 | 6000 | 0.65 | 200 |
| MGCI0603H6N8□ | 6.8 | 100 | 5 | 13 | 19 | 6000 | 0.65 | 200 |
| MGCI0603H7N5□ | 7.5 | 100 | 5 | 13 | 19 | 6000 | 0.70 | 200 |
| MGCI0603H8N2□ | 8.2 | 100 | 5 | 13 | 19 | 6000 | 0.70 | 200 |
| MGCI0603H9N1□ | 9.1 | 100 | 5 | 13 | 18 | 5500 | 0.80 | 200 |
| MGCI0603H10N□ | 10 | 100 | 5 | 13 | 18 | 5500 | 0.80 | 200 |
| MGCI0603H12N□ | 12 | 100 | 5 | 12 | 18 | 5000 | 1.00 | 150 |
| MGCI0603H15NJ□ | 15 | 100 | 5 | 12 | 17 | 4500 | 1.10 | 150 |
| MGCI0603H18NJ□ | 18 | 100 | 5 | 12 | 16 | 4000 | 1.30 | 100 |
| MGCI0603H22NJ□ | 22 | 100 | 5 | 12 | 16 | 3500 | 1.60 | 100 |
| MGCI0603H27NJ□ | 27 | 100 | 5 | 12 | 15 | 3000 | 1.70 | 100 |
| MGCI0603H33NJ□ | 33 | 100 | 5 | 11 | 14 | 2800 | 1.80 | 100 |
| MGCI0603H39NJ□ | 39 | 100 | 5 | 11 | - | 1800 | 3.35 | 60 |
| MGCI0603H47NJ□ | 47 | 100 | 5 | 11 | - | 1600 | 3.60 | 50 |
| MGCI0603H56NJ□ | 56 | 100 | 5 | 11 | - | 1200 | 3.80 | 50 |
| MGCI0603H68NJ□ | 68 | 100 | 5 | 11 | | 1100 | 3.90 | 50 |
| MGCI0603H82NJ□ | 82 | 100 | 5 | 11 | | 1000 | 4.00 | 50 |

# Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

**MGCI 0603T(0201) Series**

| MG Part No. | L (nH) | Q min | L,Q Test Freq. (MHz) | Q 500 MHz Typ | Q 800 MHz Typ | Q 1800 MHz Typ | Q 2000 MHz Typ | Q 2400 MHz Typ | SRF(min) MHz | Rdc(MAX) (Ω) | Ir(mA) (max) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MGCI0603T0N6☐ | 0.6 | 14 | 500 | >24 | >32 | >54 | >57 | >65 | 10000 | 0.06 | 600 |
| MGCI0603T1N0☐ | 1.0 | 14 | 500 | 24 | 32 | 54 | 57 | 65 | 10000 | 0.08 | 520 |
| MGCI0603T1N2☐ | 1.2 | 14 | 500 | 19 | 25 | 43 | 44 | 52 | 10000 | 0.12 | 420 |
| MGCI0603T1N5☐ | 1.5 | 14 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.12 | 420 |
| MGCI0603T1N8☐ | 1.8 | 14 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.15 | 380 |
| MGCI0603T2N2☐ | 2.2 | 14 | 500 | 17 | 24 | 38 | 40 | 43 | 10000 | 0.25 | 290 |
| MGCI0603T2N4☐ | 2.4 | 14 | 500 | 17 | 23 | 36 | 38 | 42 | 10000 | 0.22 | 310 |
| MGCI0603T2N7☐ | 2.7 | 14 | 500 | 17 | 22 | 34 | 35 | 39 | 9200 | 0.22 | 310 |
| MGCI0603T3N3☐ | 3.3 | 14 | 500 | 18 | 23 | 34 | 36 | 40 | 8100 | 0.30 | 270 |
| MGCI0603T3N6☐ | 3.6 | 14 | 500 | 16 | 23 | 33 | 35 | 39 | 7700 | 0.38 | 240 |
| MGCI0603T3N9☐ | 3.9 | 14 | 500 | 16 | 22 | 33 | 35 | 38 | 7400 | 0.42 | 230 |
| MGCI0603T4N3☐ | 4.3 | 14 | 500 | 16 | 21 | 32 | 34 | 37 | 6800 | 0.44 | 220 |
| MGCI0603T4N7☐ | 4.7 | 14 | 500 | 16 | 22 | 33 | 35 | 38 | 6200 | 0.45 | 220 |
| MGCI0603T5N1☐ | 5.1 | 14 | 500 | 17 | 22 | 34 | 36 | 38 | 5900 | 0.46 | 210 |
| MGCI0603T5N6☐ | 5.6 | 14 | 500 | 16 | 21 | 33 | 34 | 37 | 5500 | 0.46 | 210 |
| MGCI0603T6N2☐ | 6.2 | 14 | 500 | 18 | 23 | 34 | 35 | 37 | 5100 | 0.48 | 210 |
| MGCI0603T6N8☐ | 6.8 | 14 | 500 | 17 | 22 | 32 | 33 | 35 | 4900 | 0.50 | 200 |
| MGCI0603T7N5☐ | 7.5 | 14 | 500 | 16 | 21 | 31 | 33 | 34 | 4700 | 0.50 | 200 |
| MGCI0603T8N2☐ | 8.2 | 14 | 500 | 16 | 21 | 31 | 32 | 34 | 4300 | 0.56 | 190 |
| MGCI0603T9N1☐ | 9.1 | 14 | 500 | 16 | 20 | 30 | 31 | 32 | 4100 | 0.72 | 170 |
| MGCI0603T10N☐ | 10 | 14 | 500 | 16 | 20 | 28 | 29 | 31 | 3800 | 0.80 | 160 |
| MGCI0603T12N☐ | 12 | 14 | 500 | 16 | 20 | 27 | 28 | 28 | 3400 | 0.80 | 160 |
| MGCI0603T15N☐ | 15 | 13 | 500 | 15 | 19 | 24 | 24 | 23 | 2600 | 0.85 | 160 |
| MGCI0603T18N☐ | 18 | 13 | 500 | 15 | 19 | 23 | 24 | 22 | 2300 | 1.00 | 140 |
| MGCI0603T22N☐ | 22 | 13 | 500 | 15 | 19 | 22 | 23 | 20 | 1900 | 1.20 | 130 |
| MGCI0603T27N☐ | 27 | 12 | 500 | 14 | 17 | 15 | 12 | 5 | 2000 | 1.50 | 100 |
| MGCI0603T33N☐ | 33 | 12 | 300 | 15 | 17 | 12 | 8 | – | 1700 | 1.70 | 100 |
| MGCI0603T39N☐ | 39 | 9 | 300 | 14 | 15 | 3 | – | – | 1500 | 2.50 | 80 |
| MGCI0603T47N☐ | 47 | 9 | 300 | 14 | 14 | 1 | – | – | 1300 | 2.70 | 80 |
| MGCI0603T56N☐ | 56 | 9 | 300 | 13 | 13 | – | – | – | 1200 | 3.20 | 60 |

# Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

**MGCI 1005 (0402) Series**

| Part No. | L(nH) | L Test Freq. (MHz) | Q Min | | | SRF(MHz) Min. | DCR(Ω) Max. | Ir(mA) (max) |
|---|---|---|---|---|---|---|---|---|
| | | | 100 MHz | 900 MHz | 1800 MHz | | | |
| MGCI1005T1N0☐ | 1.0 | 100 | 9 | 44 | 50 | 10000 | 0.08 | 400 |
| MGCI1005T1N2☐ | 1.2 | 100 | 9 | 44 | 50 | 10000 | 0.08 | 400 |
| MGCI1005T1N5☐ | 1.5 | 100 | 9 | 43 | 48 | 6000 | 0.10 | 400 |
| MGCI1005T1N8☐ | 1.8 | 100 | 9 | 35 | 45 | 6000 | 0.12 | 400 |
| MGCI1005T2N2☐ | 2.2 | 100 | 9 | 30 | 43 | 6000 | 0.12 | 400 |
| MGCI1005T2N4☐ | 2.4 | 100 | 9 | 30 | 43 | 6000 | 0.12 | 400 |
| MGCI1005T2N7☐ | 2.7 | 100 | 9 | 30 | 40 | 6000 | 0.13 | 400 |
| MGCI1005T3N0☐ | 3.0 | 100 | 9 | 30 | 40 | 6000 | 0.15 | 400 |
| MGCI1005T3N3☐ | 3.3 | 100 | 9 | 30 | 40 | 6000 | 0.15 | 400 |
| MGCI1005T3N9☐ | 3.9 | 100 | 9 | 30 | 41 | 4500 | 0.21 | 400 |
| MGCI1005T4N3☐ | 4.3 | 100 | 9 | 30 | 36 | 4500 | 0.21 | 300 |
| MGCI1005T4N7☐ | 4.7 | 100 | 9 | 29 | 38 | 4500 | 0.21 | 300 |
| MGCI1005T5N1☐ | 5.1 | 100 | 9 | 28 | 36 | 4000 | 0.23 | 300 |
| MGCI1005T5N6☐ | 5.6 | 100 | 9 | 25 | 32 | 4000 | 0.23 | 300 |
| MGCI1005T6N2☐ | 6.2 | 100 | 9 | 25 | 32 | 4000 | 0.25 | 300 |
| MGCI1005T6N8☐ | 6.8 | 100 | 9 | 25 | 33 | 4000 | 0.25 | 300 |
| MGCI1005T7N5☐ | 7.5 | 100 | 9 | 25 | 32 | 3600 | 0.35 | 300 |
| MGCI1005T8N2☐ | 8.2 | 100 | 9 | 25 | 32 | 3600 | 0.35 | 300 |
| MGCI1005T9N1☐ | 9.1 | 100 | 9 | 25 | 31 | 3200 | 0.42 | 300 |
| MGCI1005T10N☐ | 10 | 100 | 9 | 26 | 30 | 3200 | 0.42 | 300 |
| MGCI1005T12N☐ | 12 | 100 | 9 | 26 | 29 | 2800 | 0.50 | 300 |
| MGCI1005T15N☐ | 15 | 100 | 9 | 25 | 26 | 2500 | 0.60 | 300 |
| MGCI1005T18N☐ | 18 | 100 | 9 | 23 | 24 | 2200 | 0.80 | 300 |
| MGCI1005T22N☐ | 22 | 100 | 9 | 23 | 22 | 1900 | 0.85 | 300 |
| MGCI1005T27N☐ | 27 | 100 | 9 | 23 | | 1600 | 1.00 | 300 |
| MGCI1005T33N☐ | 33 | 100 | 9 | 22 | | 1300 | 1.00 | 200 |
| MGCI1005T39N☐ | 39 | 100 | 9 | 21 | | 1200 | 1.30 | 200 |
| MGCI1005T47N☐ | 47 | 100 | 9 | 20 | | 1000 | 1.50 | 200 |
| MGCI1005T56N☐ | 56 | 100 | 9 | 17 | | 750 | 1.80 | 200 |
| MGCI1005T68N☐ | 68 | 100 | 9 | 15 | | 750 | 1.95 | 180 |
| MGCI1005T82N☐ | 82 | 100 | 9 | | | 600 | 2.10 | 150 |
| MGCI1005TR10☐ | 100 | 100 | 9 | | | 600 | 2.50 | 150 |
| MGCI1005TR12☐ | 120 | 100 | 9 | | | 600 | 2.80 | 150 |
| MGCI1005TR15☐ | 150 | 100 | 8 | | | 550 | 2.35 | 150 |
| MGCI1005TR18☐ | 180 | 100 | 8 | | | 500 | 2.55 | 100 |
| MGCI1005TR22☐ | 220 | 100 | 8 | | | 450 | 2.65 | 100 |
| MGCI1005TR27☐ | 270 | 100 | 8 | | | 400 | 2.85 | 50 |
| MGCI1005TR33☐ | 330 | 50 | 8 | | | 350 | 3.00 | 50 |

# Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

**MGCI 1608 (0603) Series**

| Part No. | L (nH) | Q /min | L,Q Test Freq. (MHz) | SRF(MHz) /min | RDC(Ω) /max | Ir(mA) /max |
|---|---|---|---|---|---|---|
| MGCI1608H1N0☐ | 1.0 | 8 | 100 | >10000 | 0.05 | 500 |
| MGCI1608H1N2☐ | 1.2 | 8 | 100 | >10000 | 0.05 | 500 |
| MGCI1608H1N5☐ | 1.5 | 8 | 100 | >10000 | 0.10 | 500 |
| MGCI1608H1N8☐ | 1.8 | 8 | 100 | >10000 | 0.10 | 500 |
| MGCI1608H2N2☐ | 2.2 | 8 | 100 | 10000 | 0.10 | 500 |
| MGCI1608H2N7☐ | 2.7 | 10 | 100 | 9000 | 0.10 | 500 |
| MGCI1608H3N3☐ | 3.3 | 10 | 100 | 8000 | 0.12 | 500 |
| MGCI1608H3N9☐ | 3.9 | 10 | 100 | 7000 | 0.14 | 500 |
| MGCI1608H4N7☐ | 4.7 | 10 | 100 | 5500 | 0.16 | 500 |
| MGCI1608H5N6☐ | 5.6 | 10 | 100 | 4500 | 0.18 | 500 |
| MGCI1608H6N8☐ | 6.8 | 10 | 100 | 4000 | 0.22 | 500 |
| MGCI1608H8N2☐ | 8.2 | 10 | 100 | 3600 | 0.24 | 500 |
| MGCI1608H10N☐ | 10.0 | 12 | 100 | 3400 | 0.26 | 300 |
| MGCI1608H12N☐ | 12.0 | 12 | 100 | 2800 | 0.30 | 300 |
| MGCI1608H15N☐ | 15.0 | 12 | 100 | 2500 | 0.32 | 300 |
| MGCI1608H18N☐ | 18.0 | 12 | 100 | 2100 | 0.35 | 300 |
| MGCI1608H22N☐ | 22.0 | 12 | 100 | 1700 | 0.40 | 300 |
| MGCI1608H27N☐ | 27.0 | 12 | 100 | 1500 | 0.45 | 300 |
| MGCI1608H33N☐ | 33.0 | 12 | 100 | 1300 | 0.55 | 300 |
| MGCI1608H39N☐ | 39.0 | 12 | 100 | 1100 | 0.60 | 300 |
| MGCI1608H47N☐ | 47.0 | 12 | 100 | 1000 | 0.70 | 300 |
| MGCI1608H56N☐ | 56.0 | 12 | 100 | 900 | 0.75 | 300 |
| MGCI1608H68N☐ | 68.0 | 12 | 100 | 700 | 0.85 | 300 |
| MGCI1608H82N☐ | 82.0 | 12 | 100 | 600 | 0.95 | 300 |
| MGCI1608HR10☐ | 100.0 | 12 | 100 | 600 | 1.00 | 300 |
| MGCI1608HR12☐ | 120.0 | 8 | 50 | 500 | 1.30 | 300 |
| MGCI1608HR15☐ | 150.0 | 8 | 50 | 500 | 1.50 | 300 |
| MGCI1608HR18☐ | 180.0 | 8 | 50 | 400 | 1.80 | 300 |
| MGCI1608HR22☐ | 220.0 | 8 | 50 | 400 | 2.10 | 300 |
| MGCI1608HR27☐ | 270.0 | 8 | 50 | 350 | 2.40 | 300 |
| MGCI1608HR33☐ | 330 | 8 | 50 | 350 | 3.0 | 300 |

# Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

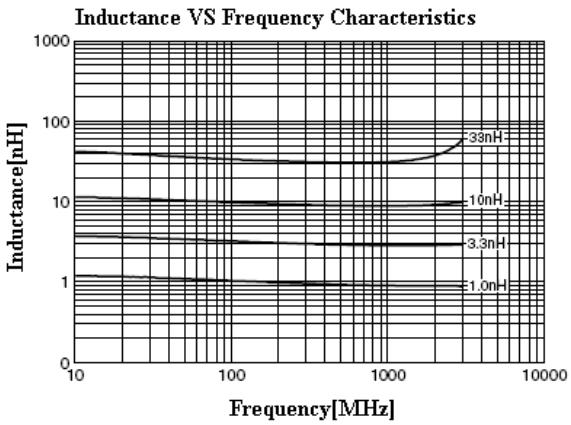
**MGCI 2012 (0805) Series**

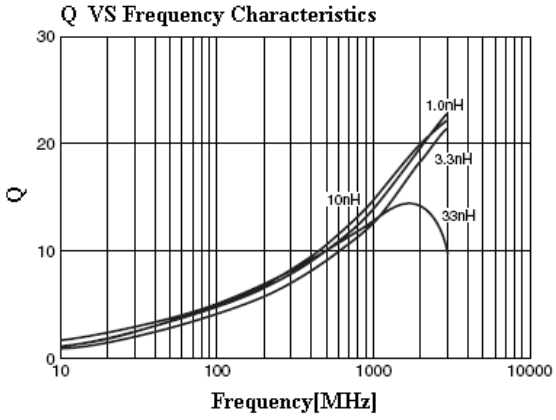
| Part No. | L (nH) | Q /min | L,Q Test Freq. (MHz) | SRF(MHz) /min | RDC(Ω) /max | Ir(mA) /max |
|---|---|---|---|---|---|---|
| MGCI2012H1N5☐ | 1.5 | 10 | 100 | 6000 | 0.10 | 600 |
| MGCI2012H1N8☐ | 1.8 | 10 | 100 | 6000 | 0.10 | 600 |
| MGCI2012H2N2☐ | 2.2 | 10 | 100 | 6000 | 0.10 | 600 |
| MGCI2012H2N7☐ | 2.7 | 12 | 100 | 6000 | 0.10 | 600 |
| MGCI2012H3N3☐ | 3.3 | 12 | 100 | 6000 | 0.13 | 600 |
| MGCI2012H3N9☐ | 3.9 | 12 | 100 | 5000 | 0.15 | 600 |
| MGCI2012H4N7☐ | 4.7 | 12 | 100 | 4000 | 0.20 | 400 |
| MGCI2012H5N6☐ | 5.6 | 15 | 100 | 3500 | 0.23 | 400 |
| MGCI2012H6N8☐ | 6.8 | 15 | 100 | 2800 | 0.25 | 400 |
| MGCI2012H8N2☐ | 8.2 | 15 | 100 | 2400 | 0.28 | 400 |
| MGCI2012H10N☐ | 10 | 15 | 100 | 2100 | 0.30 | 300 |
| MGCI2012H12N☐ | 12 | 15 | 100 | 1900 | 0.35 | 300 |
| MGCI2012H15N☐ | 15 | 15 | 100 | 1800 | 0.40 | 300 |
| MGCI2012H18N☐ | 18 | 15 | 100 | 1500 | 0.45 | 300 |
| MGCI2012H22N☐ | 22 | 15 | 100 | 1400 | 0.50 | 300 |
| MGCI2012H27N☐ | 27 | 15 | 100 | 1300 | 0.55 | 300 |
| MGCI2012H33N☐ | 33 | 15 | 100 | 1200 | 0.60 | 300 |
| MGCI2012H39N☐ | 39 | 15 | 100 | 1000 | 0.65 | 300 |
| MGCI2012H47N☐ | 47 | 15 | 100 | 900 | 0.70 | 300 |
| MGCI2012H56N☐ | 56 | 15 | 100 | 800 | 0.75 | 300 |
| MGCI2012H68N☐ | 68 | 15 | 100 | 700 | 0.80 | 300 |
| MGCI2012H82N☐ | 82 | 15 | 100 | 600 | 0.90 | 300 |
| MGCI2012HR10☐ | 100 | 15 | 100 | 600 | 0.90 | 300 |
| MGCI2012HR12☐ | 120 | 13 | 100 | 500 | 0.95 | 300 |
| MGCI2012HR15☐ | 150 | 13 | 50 | 500 | 1.00 | 300 |
| MGCI2012HR18☐ | 180 | 13 | 50 | 400 | 1.20 | 300 |
| MGCI2012HR22☐ | 220 | 12 | 50 | 350 | 1.40 | 300 |
| MGCI2012HR27☐ | 270 | 12 | 50 | 300 | 1.70 | 300 |
| MGCI2012HR33☐ | 330 | 12 | 50 | 250 | 2.00 | 300 |
| MGCI2012HR39☐ | 390 | 10 | 50 | 250 | 2.50 | 300 |
| MGCI2012HR47☐ | 470 | 10 | 50 | 200 | 2.80 | 300 |

# Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

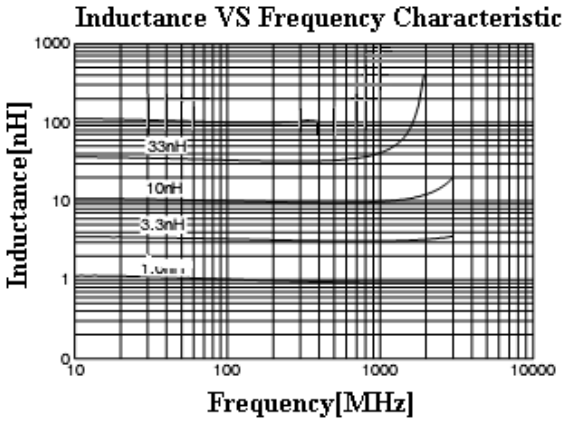
## Characteristic curve 特性曲线

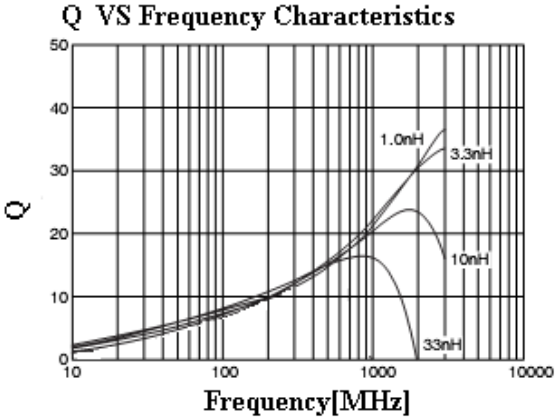
### MGCI 0603H(0201) Series




### MGCI 0603T(0201) Series

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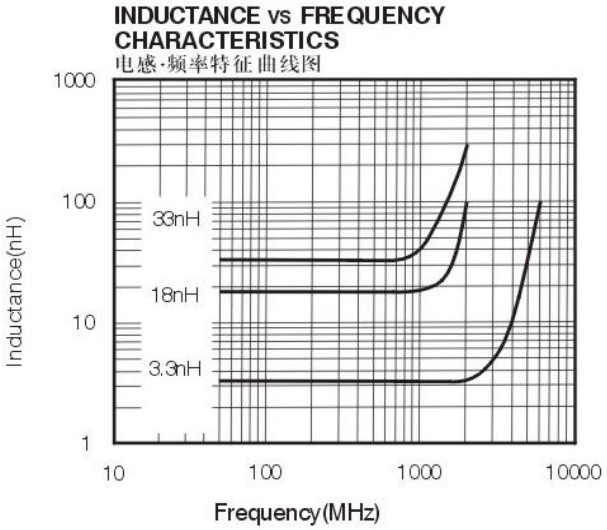
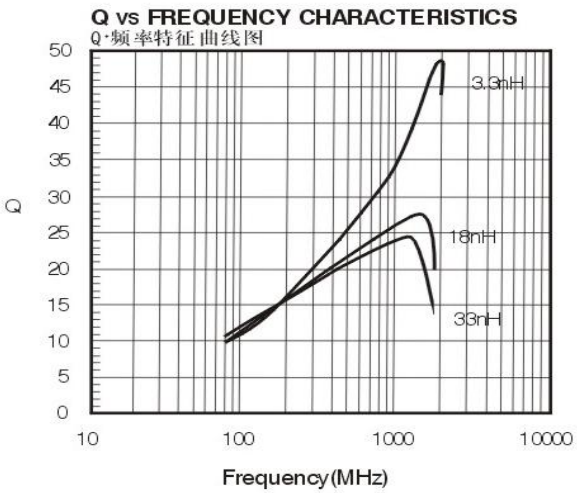
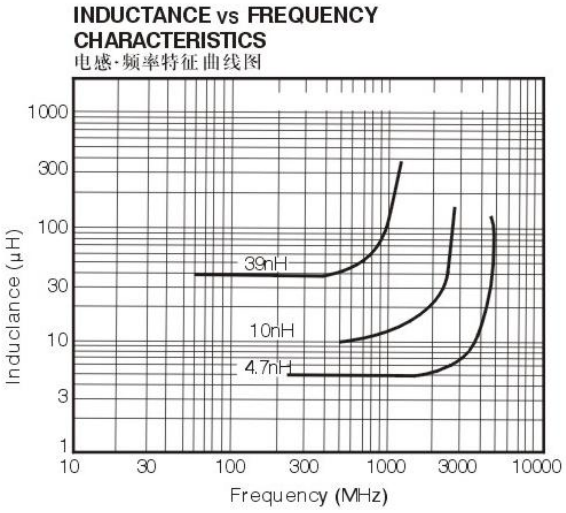


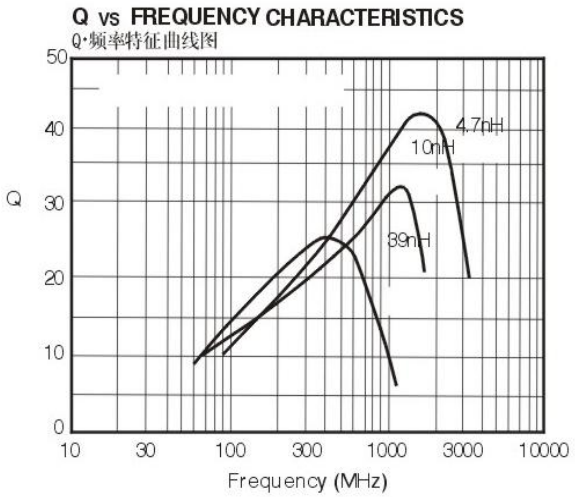




### MGCI 1608 (0603) Series

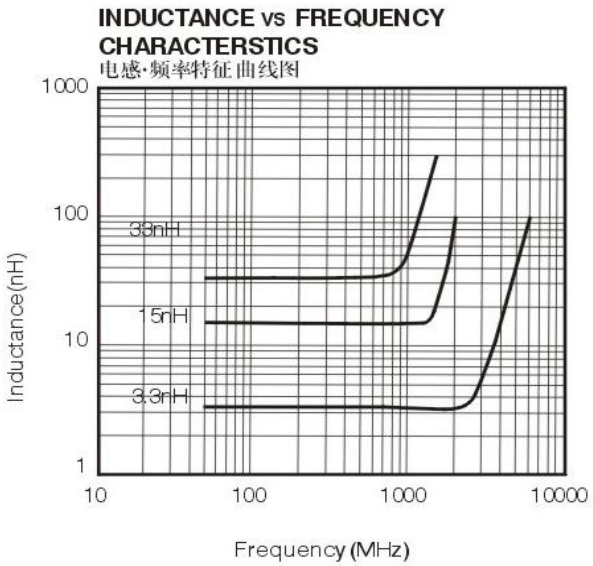
# Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

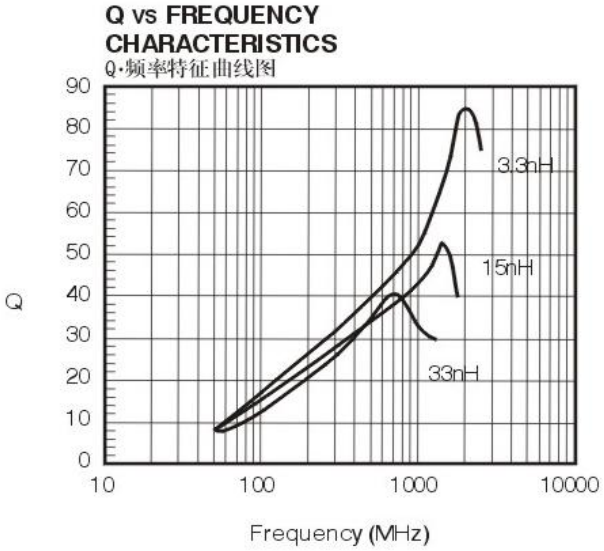
## MGCI 1608 (0603) Series




## MGCI 2012 (0805) Series



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