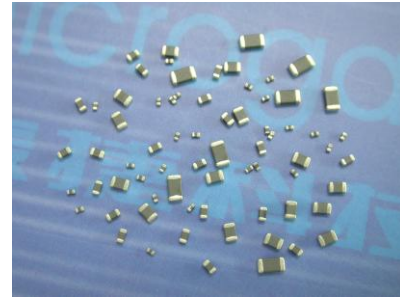


Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

FEATURES 特点

- Compact size and light weight 尺寸小, 重量轻
- Excellent solderability and heat resistance for either flow or reflow soldering 良好的可焊性和耐焊性
- No cross coupling between inductors due to magnetic shield 良好的磁屏蔽抗干扰性
- Low RDC and High IDC 低直流电阻和高 IDC 特点



APPLICATIONS 应用

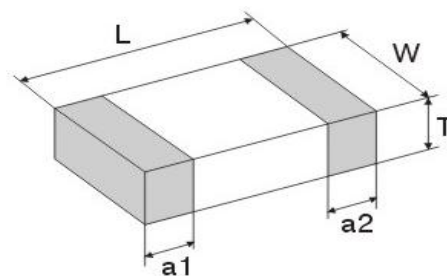
- Cellular platform DC-DC converter circuit(移动设备用 DC-DC 转换器电路)
- Portable AV equipment (digital camera, DVD Type) 便携式 AV 设备 (数码照相机, DVD 等)
- Cellular platform(handset Type) 移动通讯设备 (手机等)
- Memex(computer Type) 信息机器 (电脑等)

Product Identification 产品标识

MGFL 2012 F 2R2 M I - LF
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name 系列名称
- ② Dimension 产品尺寸 LxW: 【2012: 2.0mmx1.2mm】
- ③ Material code 材料代码
- ④ Inductance 电感量: 【R47=0.47 uH 2R2=2.2uH 100=10 uH】
- ⑤ Tolerance of Inductance 电感量公差: 【 M: ±20%】
- ⑥ Packing 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 |
| 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] | 0.80±0.20 [0.031±0.008] | 0.50±0.30 [0.02±0.012] |
| 2016[0806] | 2.00±0.20 [0.079±0.008] | 1.60±0.20 [0.063±0.008] | 0.80±0.20[0.031±0.008] | 0.50±0.30 [0.02±0.012] |
| 2520[1008] | 2.50±0.20[0.098±0.008] | 2.00±0.20[0.079±0.008] | 0.85±0.15[0.03±0.006] | 0.50±0.30[0.02±0.012] |
| 3216 [1206] | 3.20±0.20 [0.126±0.008] | 1.60±0.20 [0.063±0.008] | 1.10±0.30 [0.043±0.012] | 0.50±0.30 [0.02±0.012] |
| 3225[1210] | 3.20±0.20[0.126±0.008] | 2.50±0.20[0.098±0.008] | 1.25±0.20[0.049±0.008] | 0.70±0.30[0.028±0.012] |

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Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

Electrical Characteristics 电气性能

MGFL 1608 (0603) Series

| Part No. | L (uH) ±20% | LTest Freq. (MHz) | SRF(MHz) /min | RDC(Ω) ±30% | Ir(mA)/max |
|---------------|----------------|----------------------|------------------|----------------|------------|
| MGFL1608F1R0□ | 1.0 | 1 | 125 | 0.18 | 1000 |
| MGFL1608F1R5□ | 1.5 | 1 | 109 | 0.22 | 800 |
| MGFL1608F2R2□ | 2.2 | 1 | 90 | 0.30 | 700 |
| MGFL1608F3R3□ | 3.3 | 1 | 70 | 0.40 | 600 |
| MGFL1608F4R7□ | 4.7 | 1 | 50 | 0.50 | 500 |
| MGFL1608F6R8□ | 6.8 | 1 | 40 | 0.53 | 400 |
| MGFL1608F100□ | 10.0 | 1 | 33 | 0.55 | 400 |
| MGFL1608F150□ | 15.0 | 1 | 20 | 0.9 | 220 |
| MGFL1608F220□ | 22.0 | 1 | 15 | 1.0 | 200 |
| MGFL1608C1R0□ | 1.0 | 1 | 125 | 0.30 | 600 |
| MGFL1608C1R5□ | 1.5 | 1 | 109 | 0.35 | 550 |
| MGFL1608C2R2□ | 2.2 | 1 | 90 | 0.45 | 500 |
| MGFL1608C3R3□ | 3.3 | 1 | 70 | 0.65 | 400 |
| MGFL1608C4R7□ | 4.7 | 1 | 50 | 1.0 | 300 |

MGFL 2012 (0805) Series

| Part No. | L (uH) ±20% | LTest Freq. (MHz) | SRF(MHz) /min | RDC(Ω) ±30% | Ir(mA)/max |
|---------------|----------------|----------------------|------------------|----------------|------------|
| MGFL2012F1R0□ | 1.0 | 1 | 75 | 0.15 | 1400 |
| MGFL2012F1R5□ | 1.5 | 1 | 60 | 0.16 | 1300 |
| MGFL2012F2R2□ | 2.2 | 1 | 50 | 0.2 | 1200 |
| MGFL2012F3R3□ | 3.3 | 1 | 41 | 0.22 | 1100 |
| MGFL2012F4R7□ | 4.7 | 1 | 35 | 0.25 | 1000 |
| MGFL2012F6R8□ | 6.8 | 1 | 29 | 0.27 | 550 |
| MGFL2012F100□ | 10.0 | 1 | 24 | 0.32 | 500 |
| MGFL2012F150□ | 15.0 | 1 | 19 | 0.5 | 400 |
| MGFL2012F220□ | 22.0 | 1 | 18 | 0.7 | 300 |
| MGFL2012C1R0□ | 1.0 | 1 | 75 | 0.18 | 1000 |
| MGFL2012C1R5□ | 1.5 | 1 | 60 | 0.19 | 900 |

Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

| | | | | | |
|---------------|-----|---|----|------|------|
| MGFL2012C2R2□ | 2.2 | 1 | 50 | 0.22 | 800 |
| MGFL2012C3R3□ | 3.3 | 1 | 41 | 0.25 | 600 |
| MGFL2012C4R7□ | 4.7 | 1 | 35 | 0.35 | 500 |
| MGFL2012U1R0□ | 1.0 | 1 | 60 | 0.2 | 1400 |
| MGFL2012U1R5□ | 1.5 | 1 | 50 | 0.25 | 1300 |
| MGFL2012U2R2□ | 2.2 | 1 | 40 | 0.3 | 1200 |
| MGFL2012U3R3□ | 3.3 | 1 | 30 | 0.4 | 1100 |
| MGFL2012U4R7□ | 4.7 | 1 | 20 | 0.5 | 1000 |

MGFL 2016 (0806) Series

| Part No. | L (uH) ±20% | LTest Freq. (MHz) | SRF(MHz) /min | RDC(Ω) ±30% | Ir(mA)/max |
|---------------|----------------|----------------------|------------------|----------------|------------|
| MGFL2016F1R0□ | 1.0 | 1 | 60 | 0.11 | 1400 |
| MGFL2016F1R5□ | 1.5 | 1 | 50 | 0.15 | 1200 |
| MGFL2016F2R2□ | 2.2 | 1 | 40 | 0.20 | 1200 |
| MGFL2016F3R3□ | 3.3 | 1 | 30 | 0.30 | 1200 |
| MGFL2016F4R7□ | 4.7 | 1 | 20 | 0.35 | 1100 |
| MGFL2016C1R0□ | 1.0 | 1 | 60 | 0.10 | 1200 |
| MGFL2016C1R5□ | 1.5 | 1 | 50 | 0.13 | 1000 |
| MGFL2016C2R2□ | 2.2 | 1 | 40 | 0.15 | 900 |
| MGFL2016C3R3□ | 3.3 | 1 | 30 | 0.20 | 800 |
| MGFL2016C4R7□ | 4.7 | 1 | 20 | 0.30 | 700 |
| MGFL2016U1R0□ | 1.0 | 1 | 55 | 0.18 | 1400 |
| MGFL2016U1R5□ | 1.5 | 1 | 45 | 0.23 | 1200 |
| MGFL2016U2R2□ | 2.2 | 1 | 35 | 0.28 | 1200 |
| MGFL2016U3R3□ | 3.3 | 1 | 25 | 0.35 | 1200 |
| MGFL2016U4R7□ | 4.7 | 1 | 15 | 0.45 | 1100 |

MGFL 2520 (1008) Series

| Part No. | L (uH) ±20% | LTest Freq. (MHz) | SRF(MHz) /min | RDC(Ω) ±30% | Ir(mA)/max |
|---------------|----------------|----------------------|------------------|----------------|------------|
| MGFL2520F1R0□ | 1.0 | 1 | 60 | 0.15 | 1600 |
| MGFL2520F1R5□ | 1.5 | 1 | 50 | 0.18 | 1500 |
| MGFL2520F2R2□ | 2.2 | 1 | 40 | 0.25 | 1300 |
| MGFL2520F3R3□ | 3.3 | 1 | 30 | 0.30 | 1200 |
| MGFL2520F4R7□ | 4.7 | 1 | 20 | 0.32 | 1100 |

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Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

| | | | | | |
|---------------|-----|---|----|------|------|
| MGFL2520C1R0□ | 1.0 | 1 | 60 | 0.11 | 1100 |
| MGFL2520C1R5□ | 1.5 | 1 | 50 | 0.13 | 1000 |
| MGFL2520C2R2□ | 2.2 | 1 | 40 | 0.15 | 950 |
| MGFL2520C3R3□ | 3.3 | 1 | 30 | 0.18 | 900 |
| MGFL2520C4R7□ | 4.7 | 1 | 20 | 0.25 | 850 |
| MGFL2520U1R0□ | 1.0 | 1 | 50 | 0.18 | 1700 |
| MGFL2520U1R5□ | 1.5 | 1 | 40 | 0.20 | 1600 |
| MGFL2520U2R2□ | 2.2 | 1 | 30 | 0.23 | 1500 |
| MGFL2520U3R3□ | 3.3 | 1 | 25 | 0.30 | 1300 |
| MGFL2520U4R7□ | 4.7 | 1 | 15 | 0.35 | 1200 |

MGFL 3216 (1206) Series

| Part No. | L (uH) ±20% | LTest Freq. (MHz) | SRF(MHz) /min | RDC(Ω) ±30% | I _r (mA)/max |
|---------------|----------------|----------------------|------------------|----------------|-------------------------|
| MGFL3216F1R0□ | 1.0 | 1 | 90 | 0.10 | 1600 |
| MGFL3216F1R5□ | 1.5 | 1 | 75 | 0.12 | 1500 |
| MGFL3216F2R2□ | 2.2 | 1 | 58 | 0.15 | 1300 |
| MGFL3216F3R3□ | 3.3 | 1 | 49 | 0.20 | 1200 |
| MGFL3216F4R7□ | 4.7 | 1 | 41 | 0.32 | 980 |
| MGFL3216F6R8□ | 6.8 | 1 | 34 | 0.41 | 830 |
| MGFL3216F100□ | 10.0 | 1 | 28 | 0.50 | 670 |
| MGFL3216C1R0□ | 1.0 | 1 | 90 | 0.12 | 1400 |
| MGFL3216C1R5□ | 1.5 | 1 | 75 | 0.15 | 1300 |
| MGFL3216C2R2□ | 2.2 | 1 | 58 | 0.20 | 1200 |
| MGFL3216C3R3□ | 3.3 | 1 | 49 | 0.25 | 1100 |
| MGFL3216C4R7□ | 4.7 | 1 | 41 | 0.45 | 850 |

MGFL 3225 (1210) Series

| Part No. | L (uH) ±20% | LTest Freq. (MHz) | SRF(MHz) /min | RDC(Ω) ±30% | I _r (mA)/max |
|---------------|----------------|----------------------|------------------|----------------|-------------------------|
| MGFL3225F1R0□ | 1.0 | 1 | 90 | 0.08 | 1800 |
| MGFL3225F1R5□ | 1.5 | 1 | 80 | 0.10 | 1600 |
| MGFL3225F2R2□ | 2.2 | 1 | 58 | 0.15 | 1400 |
| MGFL3225F3R3□ | 3.3 | 1 | 49 | 0.18 | 1300 |

Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

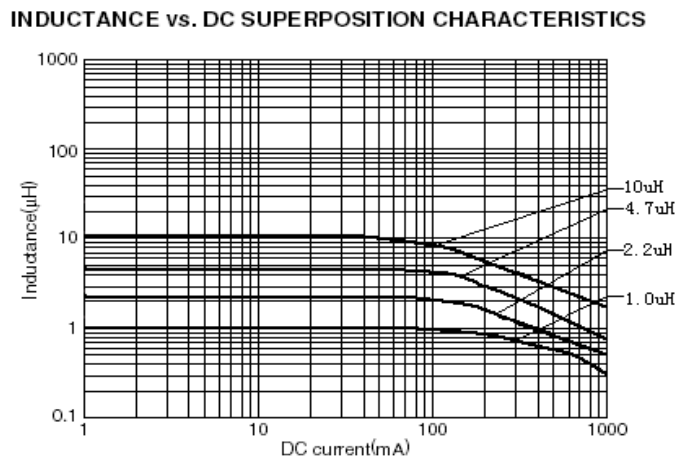
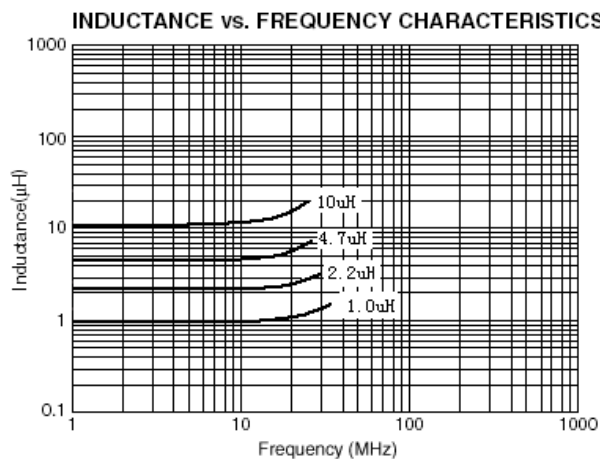
| | | | | | |
|---------------|------|---|----|------|------|
| MGFL3225F4R7□ | 4.7 | 1 | 41 | 0.22 | 1000 |
| MGFL3225F6R8□ | 6.8 | 1 | 34 | 0.30 | 850 |
| MGFL3225F100□ | 10.0 | 1 | 28 | 0.42 | 700 |
| MGFL3225C1R0□ | 1.0 | 1 | 90 | 0.10 | 1600 |
| MGFL3225C1R5□ | 1.5 | 1 | 80 | 0.12 | 1400 |
| MGFL3225C2R2□ | 2.2 | 1 | 58 | 0.18 | 1300 |
| MGFL3225C3R3□ | 3.3 | 1 | 49 | 0.21 | 1200 |
| MGFL3225C4R7□ | 4.7 | 1 | 41 | 0.30 | 900 |

备注：额定电流 Rated Current

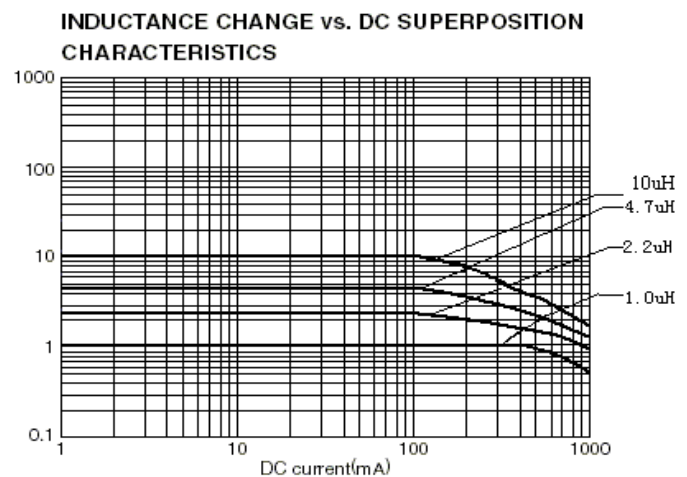
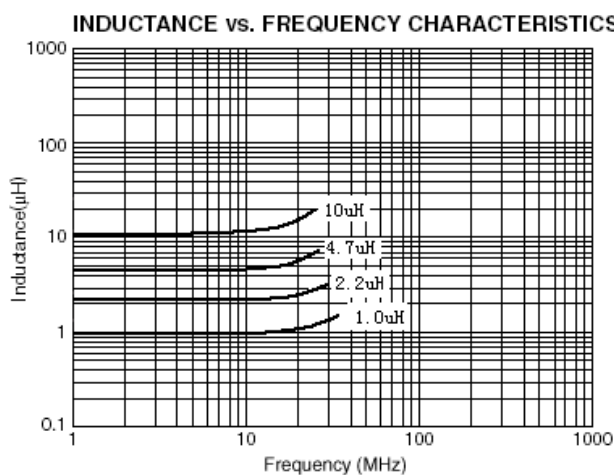
基于产品表面温度上升的标准值：产品表面温度达到+40°C时的电流值；Rated current based on increasing product temperature: Current when temperature of the product reaches +40°C

Characteristic curve 特性曲线

MGFL 1608F(0603) Series



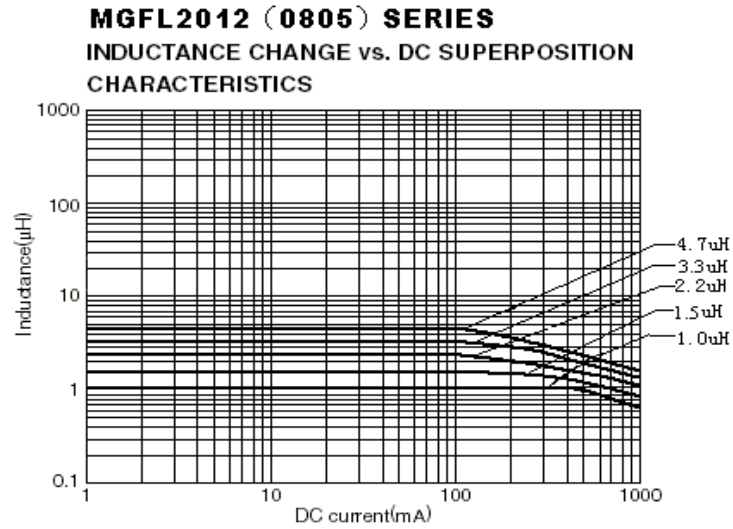
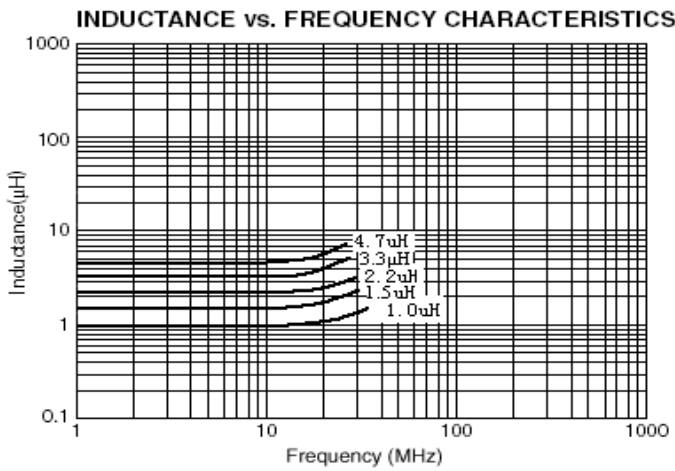
MGFL 2012F(0805) Series



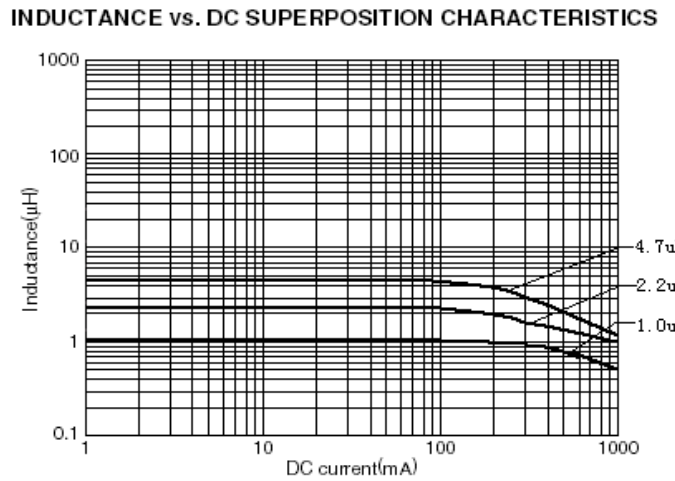
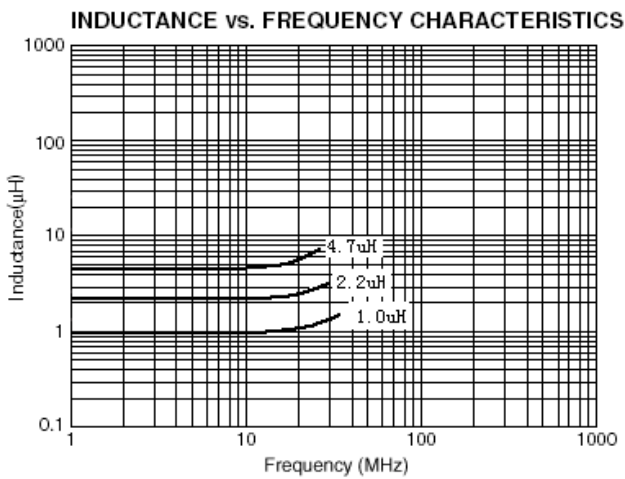
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Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

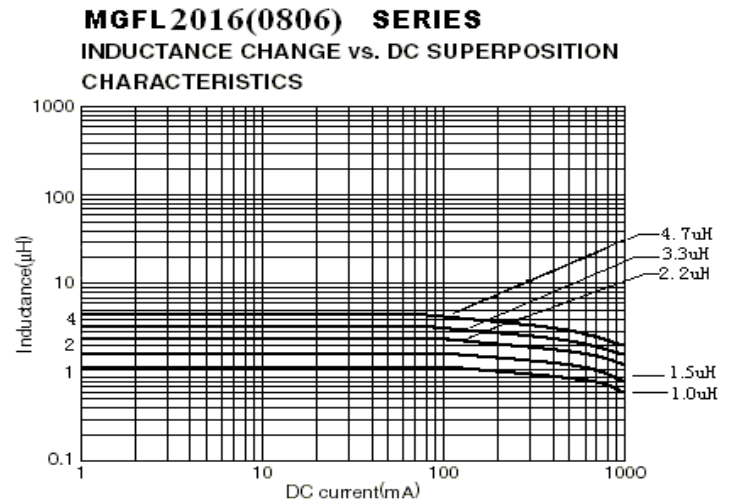
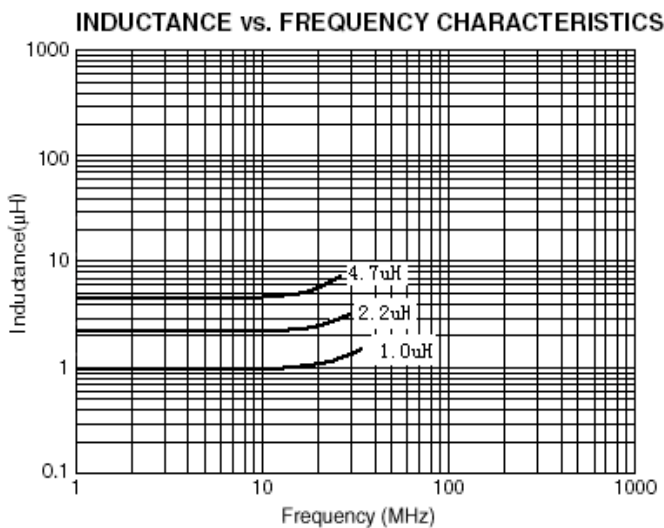
MGFL2012U(0805) Series



MGFL 2016F(0806) Series



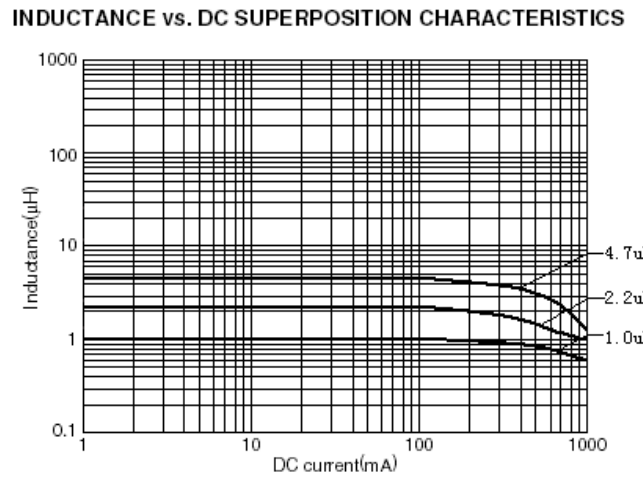
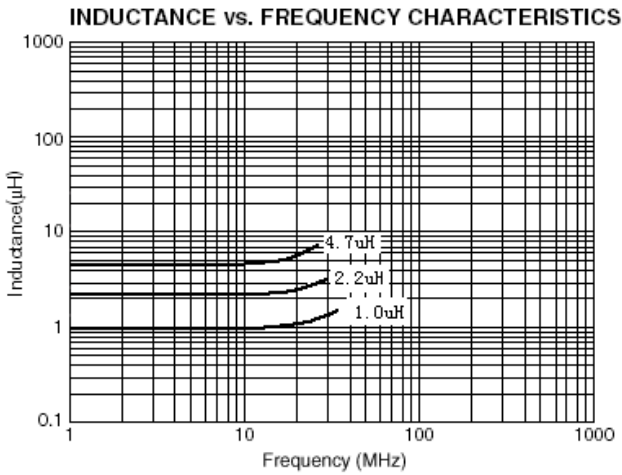
MGFL2016U(0806) Series



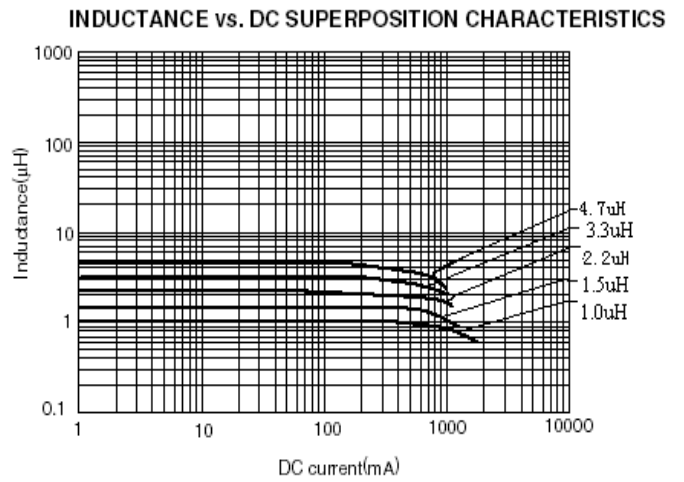
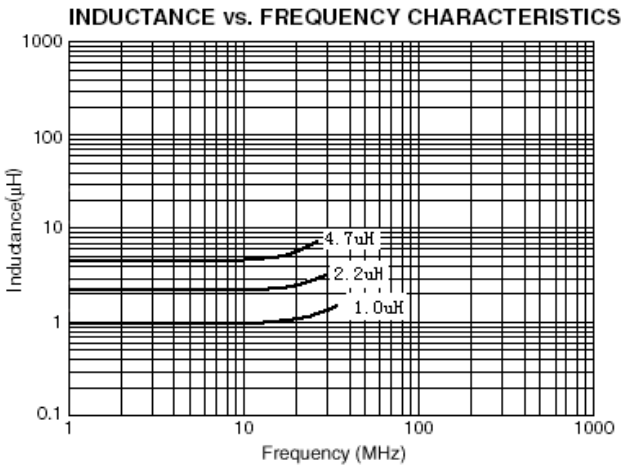
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Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

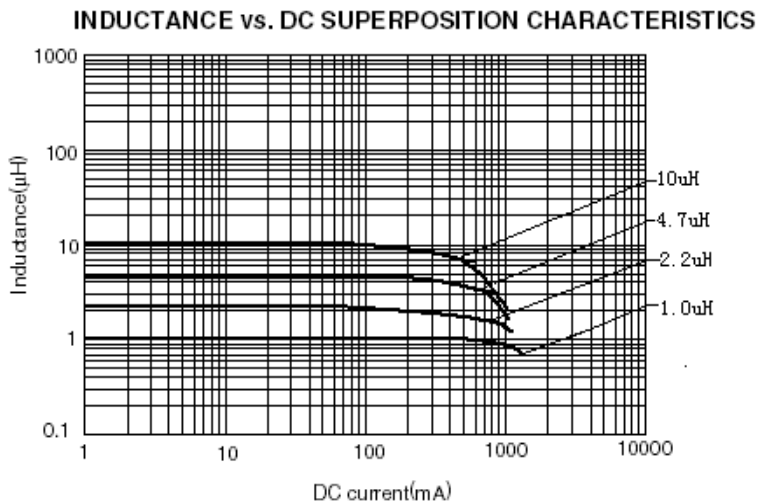
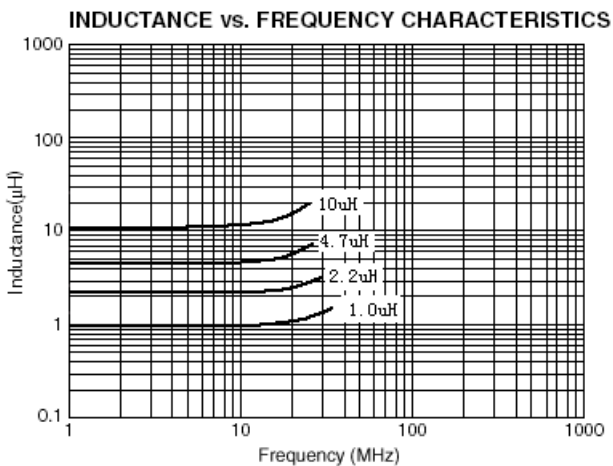
MGFL 2520F(1008) Series



MGFL2520U(1008) Series



MGFL 3216F(1206) Series

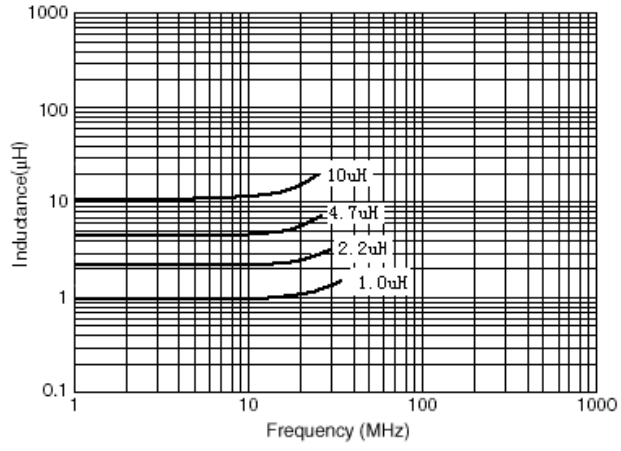


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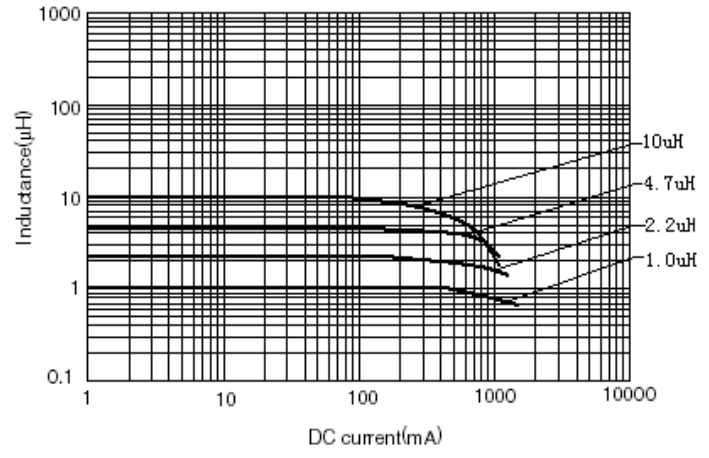
Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

MGFL 3225F(1210) Series

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



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