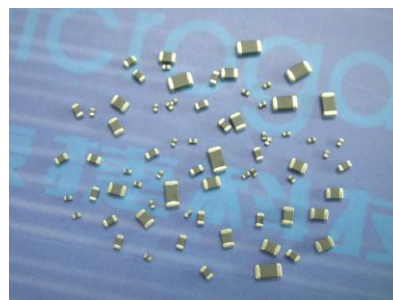


## Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

### 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

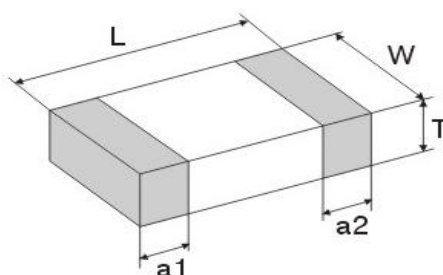
- Cellular platform DC-DC converter circuit(移动设备用 DC-DC 转换器电路)
- Portable AV equipment (digital camera, DVD Type) 便携式 AV 设备 (数码照相机, DVD 等)
- Cellular platform(handset Type) 移动通讯设备 (手机等)
- Memex(computer Type) 信息机器 (电脑等)

### 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 L×W: 【2012: 2.0mm×1.2mm】
- 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

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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)

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 <sub>r</sub> (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 <sub>r</sub> (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)

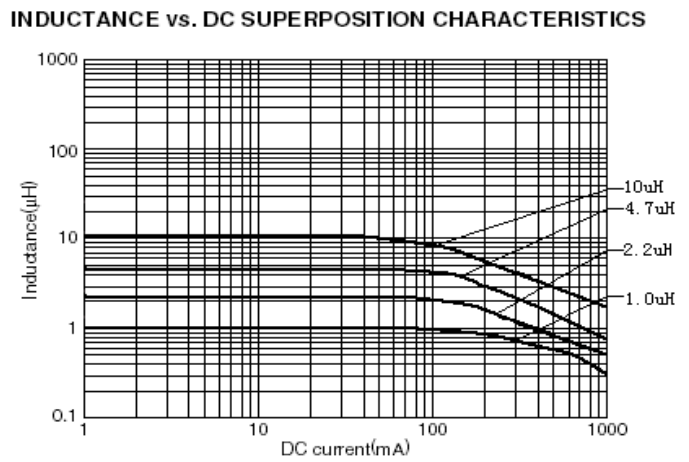
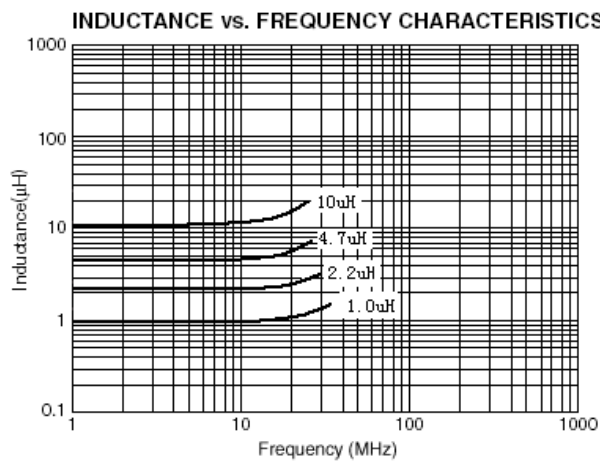
MGFL3225F4R7□	4.7	1	41	0.22	1000
MGFL3225F6R8□	6.8	1	34	0.30	850
MGFL3225F100□	10.0	1	28	0.42	700
MGFL3225C1R0□	1.0	1	90	0.10	1600
MGFL3225C1R5□	1.5	1	80	0.12	1400
MGFL3225C2R2□	2.2	1	58	0.18	1300
MGFL3225C3R3□	3.3	1	49	0.21	1200
MGFL3225C4R7□	4.7	1	41	0.30	900

备注：额定电流 Rated Current

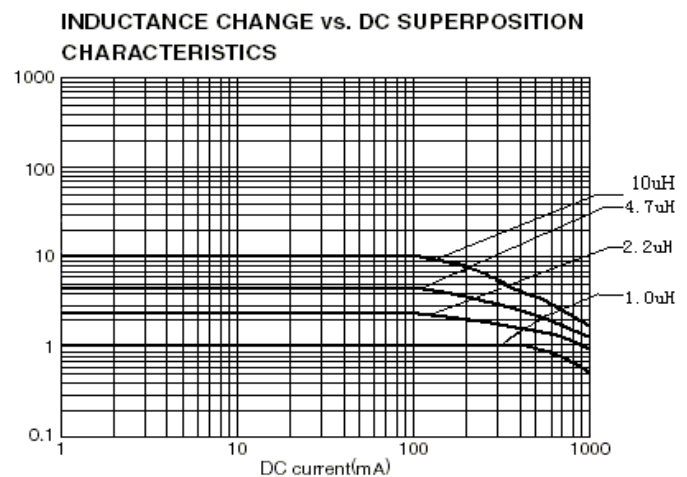
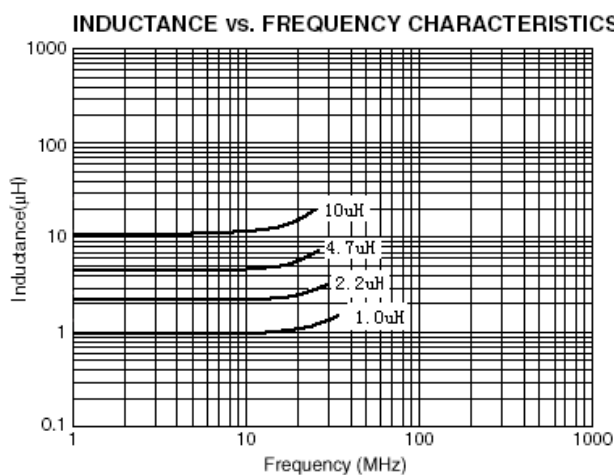
基于产品表面温度上升的标准值：产品表面温度达到+40°C时的电流值；Rated current based on increasing product temperature: Current when temperature of the product reaches +40°C

Characteristic curve 特性曲线

MGFL 1608F(0603) Series

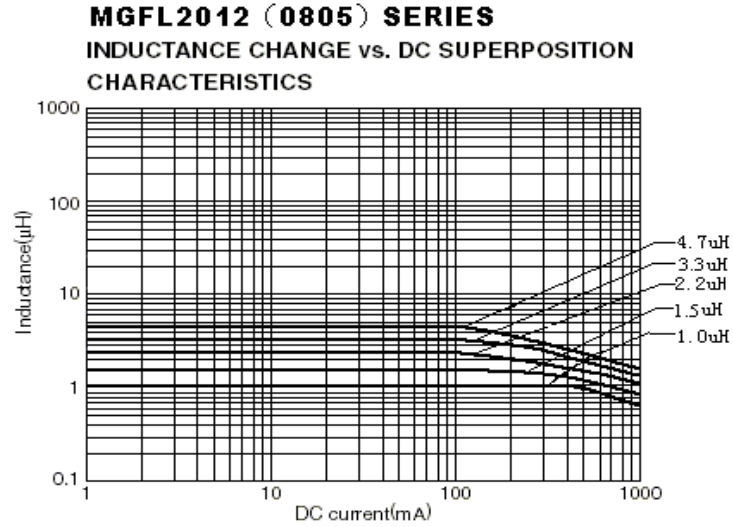
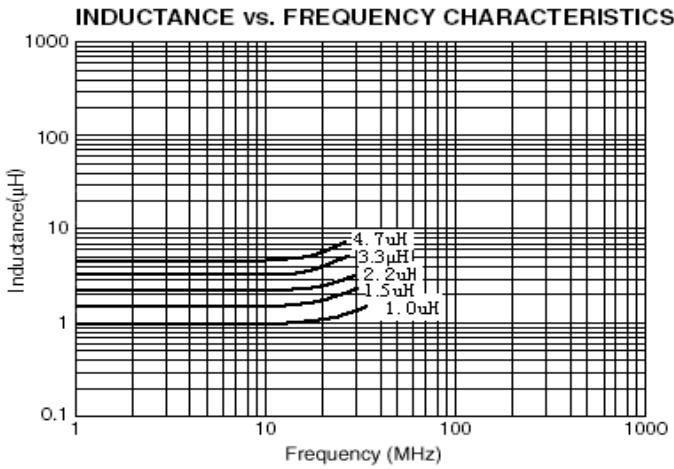


MGFL 2012F(0805) Series

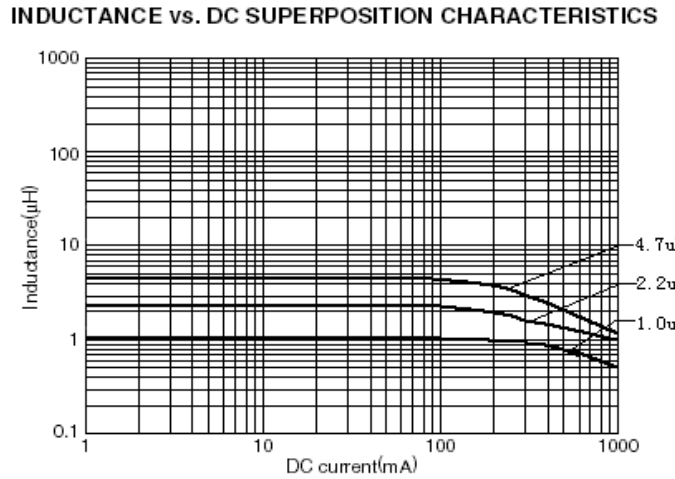
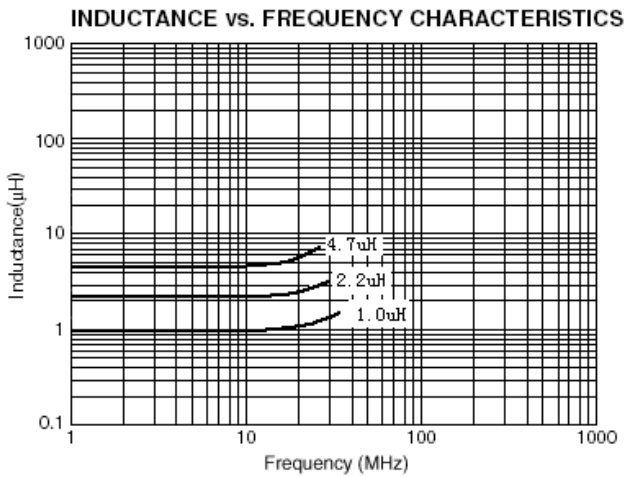


Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

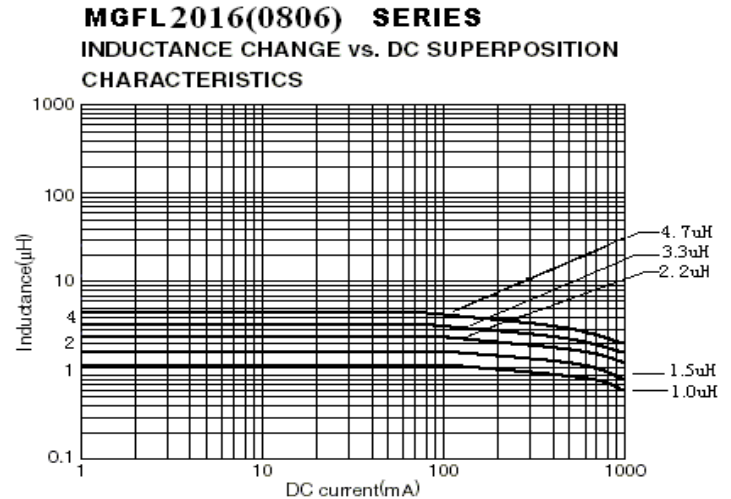
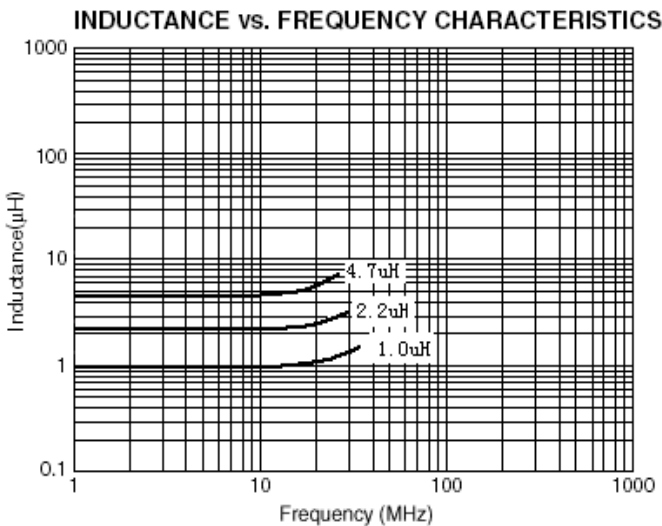
MGFL2012U(0805) Series



MGFL 2016F(0806) Series



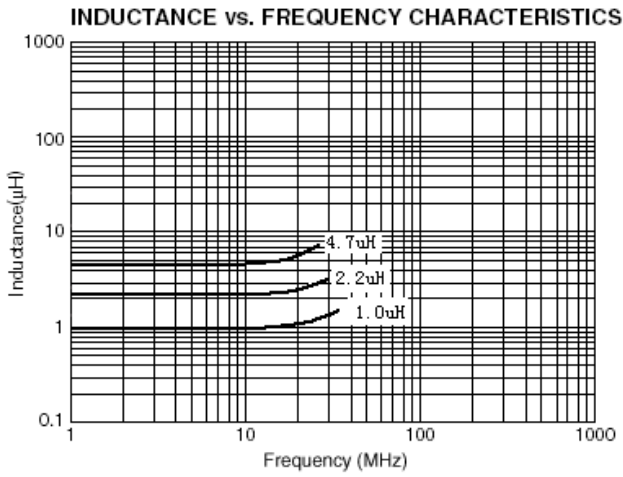
MGFL2016U(0806) Series



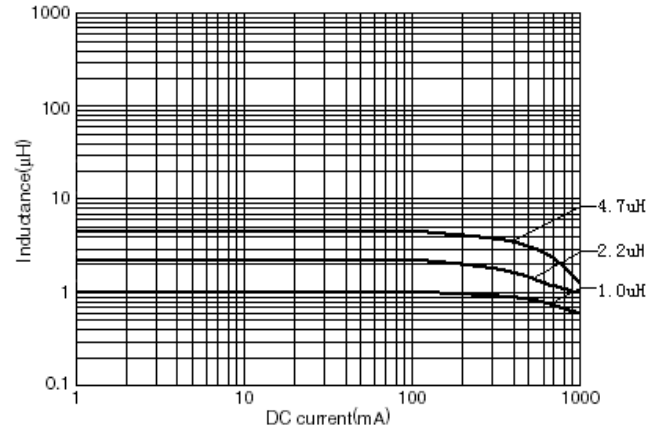
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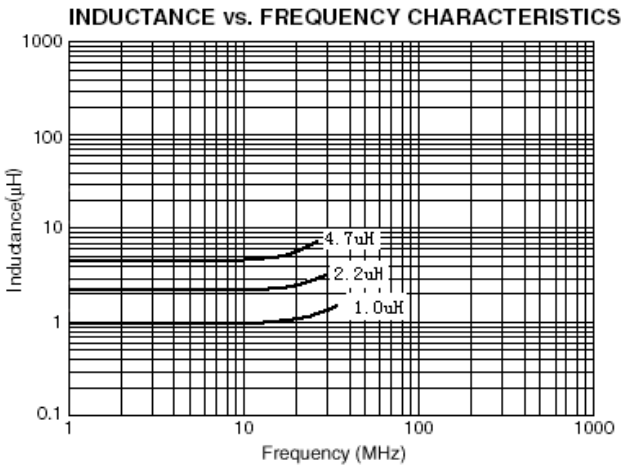
MGFL 2520F(1008) Series



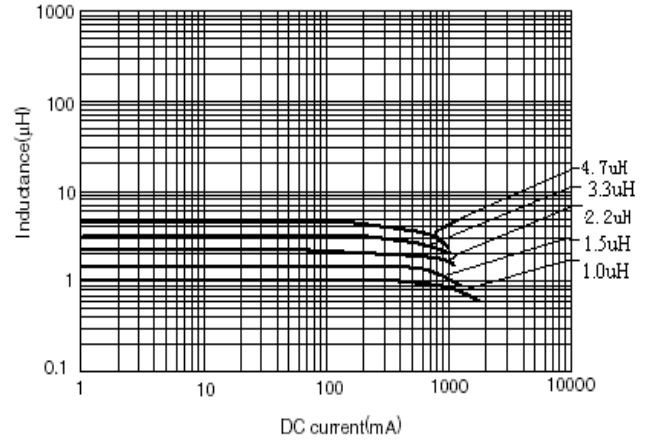
**INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS**



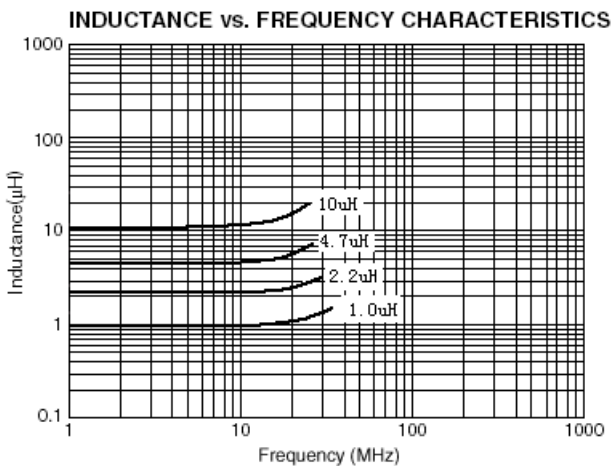
MGFL2520U(1008) Series



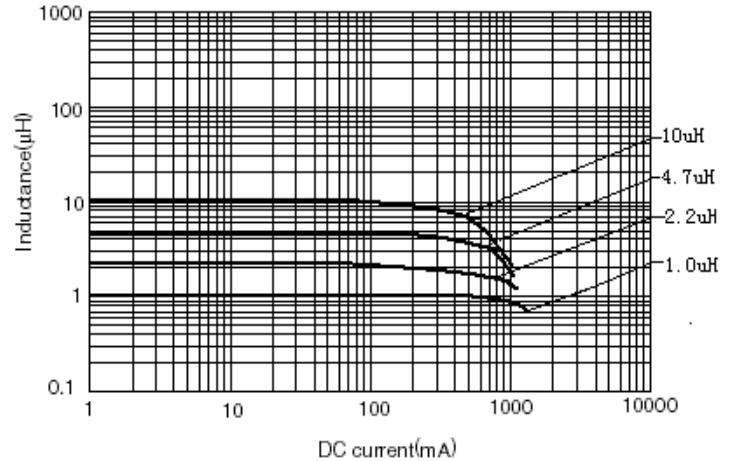
**INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS**



MGFL 3216F(1206) Series



**INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS**

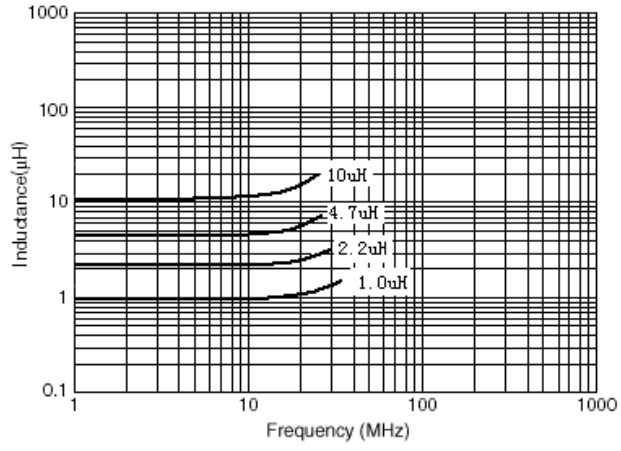


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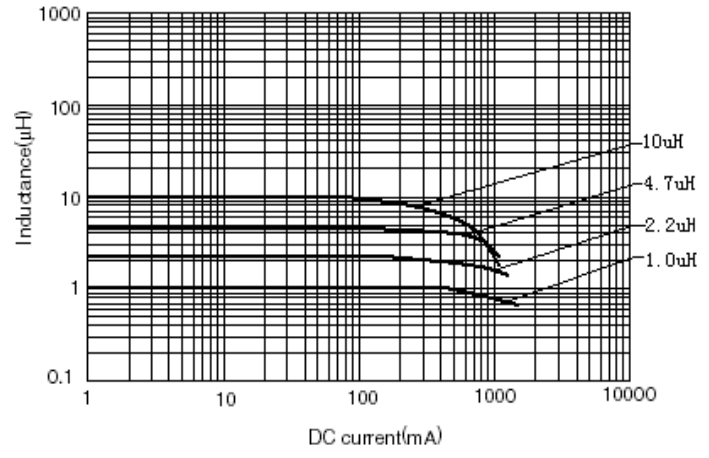
Multilayer Chip Ferrite Large Current Inductor (叠层片式铁氧体大电流电感 MGFL 系列)

MGFL 3225F(1210) Series

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



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