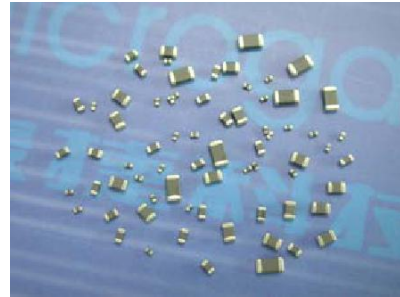


## Multilayer Chip Ferrite Large Current Inductor 叠层片式铁氧体大电流电感

### 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

<u>HLFL</u>	<u>2012</u>	<u>F</u>	<u>2R2</u>	<u>M</u>	<u>I</u>	<u>-LF</u>
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】

③Material code 材料代码

④Inductance 电感量: 【R47=0.47 uH    2R2=2.2uH    100=10 uH】

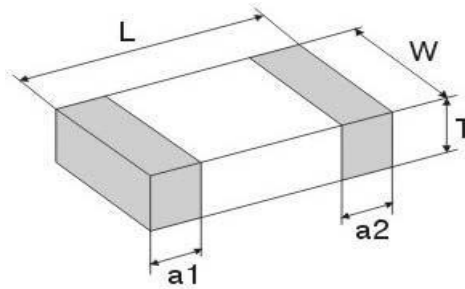
⑤Tolerance of Inductance 电感量公差: 【 M: ±20%】

⑥Packing Style: 【 T: Taping 编带盘装      B: Bulk 散装】

⑦ Lead free products 无铅产品

**Multilayer Chip Ferrite Large Current Inductor 叠层片式铁氧体大电流电感**

**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]	1.25±0.20 [0.049±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]	1.10±0.10[0.043±0.004]	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]

**Electrical Characteristics 电气性能**

**HLFL 1608 (0603) Series**

Part No.	L (uH)	LTest Freq. (MHz)	SRF(MHz) /min	RDC(Ω) ±30%	I <sub>r</sub> (mA)*1 /max	I <sub>r</sub> (mA)*2 /max
HLFL1608F1R0 □	1.0	1	125	0.15	360	900
HLFL1608F1R5 □	1.5	1	109	0.18	260	625
HLFL1608F2R2 □	2.2	1	90	0.25	240	600
HLFL1608F3R3 □	3.3	1	70	0.30	190	525
HLFL1608F4R7 □	4.7	1	50	0.38	170	500
HLFL1608F6R8 □	6.8	1	40	0.41	135	400
HLFL1608F100 □	10.0	1	33	0.55	120	400
HLFL1608F150 □	15.0	1	20	0.9	75	220
HLFL1608F220 □	22.0	1	15	1.0	70	200

**Multilayer Chip Ferrite Large Current Inductor 叠层片式铁氧体大电流电感****HLFL 2012 (0805) Series**

Part No.	L (uH)	LTest Freq. (MHz)	SRF(MHz) /min	RDC( $\Omega$ ) $\pm 30\%$	I <sub>r</sub> (mA)*1 /max	I <sub>r</sub> (mA)*2 /max
HLFL2012F1R0 □	1.0	1	75	0.15	550	1400
HLFL2012F1R5 □	1.5	1	60	0.16	450	1300
HLFL2012F2R2 □	2.2	1	50	0.2	400	1200
HLFL2012F3R3 □	3.3	1	41	0.22	300	1100
HLFL2012F4R7 □	4.7	1	35	0.25	280	1000
HLFL2012F6R8 □	6.8	1	29	0.27	200	550
HLFL2012F100 □	10.0	1	24	0.32	180	500
HLFL2012F150 □	15.0	1	19	0.5	140	400
HLFL2012F220 □	22.0	1	18	0.7	110	300

**HLFL 2016 (0806) Series**

Part No.	L (uH)	LTest Freq. (MHz)	SRF(MHz) /min	RDC( $\Omega$ ) $\pm 30\%$	I <sub>r</sub> (mA)*1 /max	I <sub>r</sub> (mA)*2 /max
HLFL2016F1R0 □	1.0	1	60	0.085	600	1400
HLFL2016F1R5 □	1.5	1	50	0.11	500	1200
HLFL2016F2R2 □	2.2	1	40	0.11	450	1200
HLFL2016F3R3 □	3.3	1	30	0.12	400	1200
HLFL2016F4R7 □	4.7	1	20	0.14	300	1100

**HLFL 2520 (1008) Series**

Part No.	L (uH)	LTest Freq. (MHz)	SRF(MHz) /min	RDC( $\Omega$ ) $\pm 30\%$	I <sub>r</sub> (mA)*1 /max	I <sub>r</sub> (mA)*2 /max
HLFL2520F1R0 □	1.0	1	60	0.1	800	1200
HLFL2520F1R5 □	1.5	1	50	0.11	700	1100
HLFL2520F2R2 □	2.2	1	40	0.12	600	1100
HLFL2520F3R3 □	3.3	1	30	0.12	600	1100
HLFL2520F4R7 □	4.7	1	20	0.14	500	1100

**Multilayer Chip Ferrite Large Current Inductor 叠层片式铁氧体大电流电感**

**HLFL 3216 (1206) Series**

Part No.	L (uH)	LTest Freq. (MHz)	SRF(MHz) /min	RDC(Ω) ±30%	I <sub>r</sub> (mA)*1 /max	I <sub>r</sub> (mA)*2 /max
HLFL3216F1R0 □	1.0	1	90	0.10	1200	1600
HLFL3216F1R5 □	1.5	1	75	0.12	1100	1500
HLFL3216F2R2 □	2.2	1	58	0.15	1000	1300
HLFL3216F3R3 □	3.3	1	49	0.20	870	1200
HLFL3216F4R7 □	4.7	1	41	0.32	740	980
HLFL3216F6R8 □	6.8	1	34	0.41	590	830
HLFL3216F100 □	10.0	1	28	0.50	490	670

**HLFL 3225 (1210) Series**

Part No.	L (uH)	LTest Freq. (MHz)	SRF(MHz) /min	RDC(Ω) ±30%	I <sub>r</sub> (mA)*1 /max	I <sub>r</sub> (mA)*2 /max
HLFL3225F1R0 □	1.0	1	90	0.08	1500	1800
HLFL3225F1R5 □	1.5	1	80	0.10	1300	1600
HLFL3225F2R2 □	2.2	1	58	0.15	1100	1400
HLFL3225F3R3 □	3.3	1	49	0.18	900	1300
HLFL3225F4R7 □	4.7	1	41	0.22	800	1000
HLFL3225F6R8 □	6.8	1	34	0.30	600	850
HLFL3225F100 □	10.0	1	28	0.42	500	700

备注：额定电流 **Rated Current**

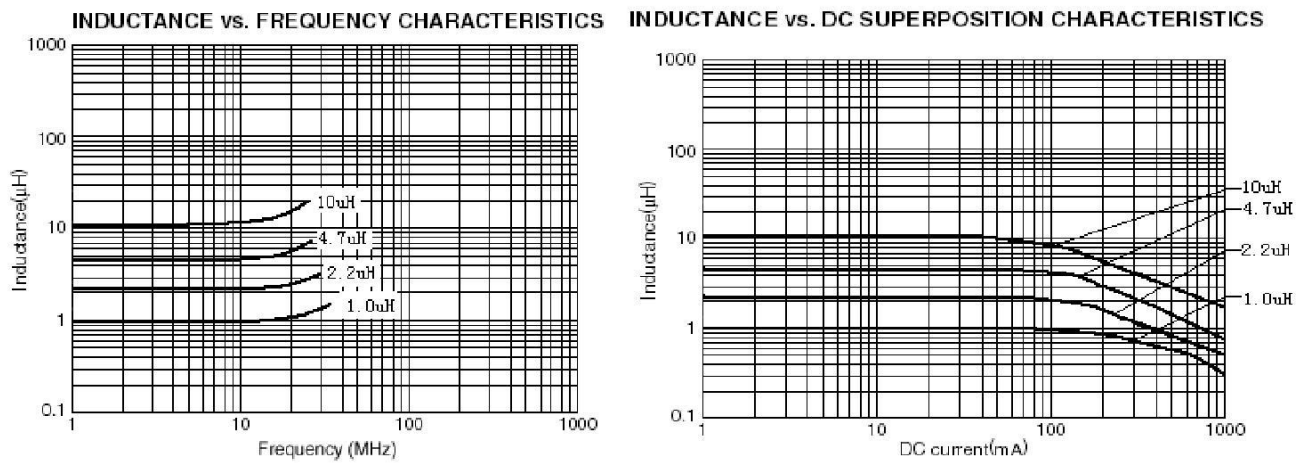
1.基于电感变化的标准值：因直流重叠的特性而使电感值比初始值下降 30%的电流值；**Rated current based on inductance variation: Current when inductance decreases by 30% of the initial value due to direct current superimposed characteristics.**

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

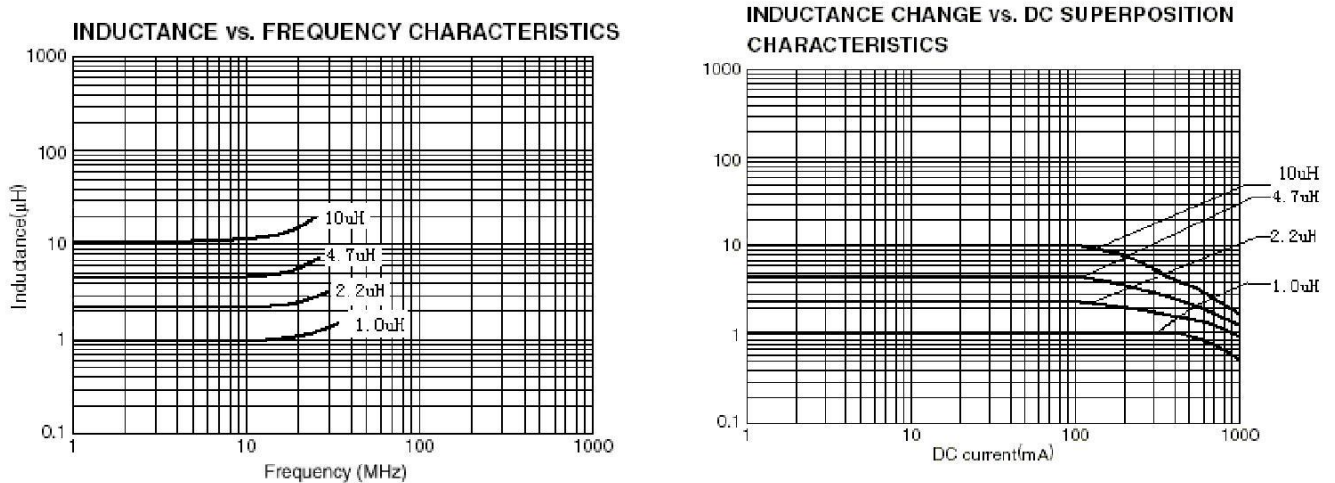
**Multilayer Chip Ferrite Large Current Inductor 叠层片式铁氧体大电流电感**

Characteristic curve 特性曲线

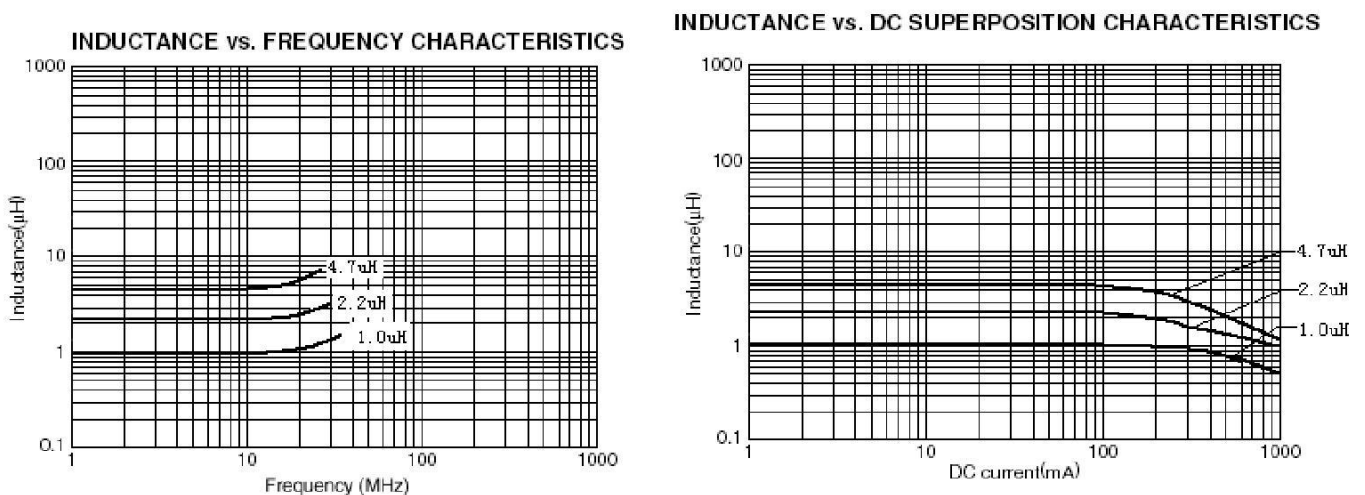
**HLFL 1608(0603) Series**



**HLFL 2012(0805) Series**

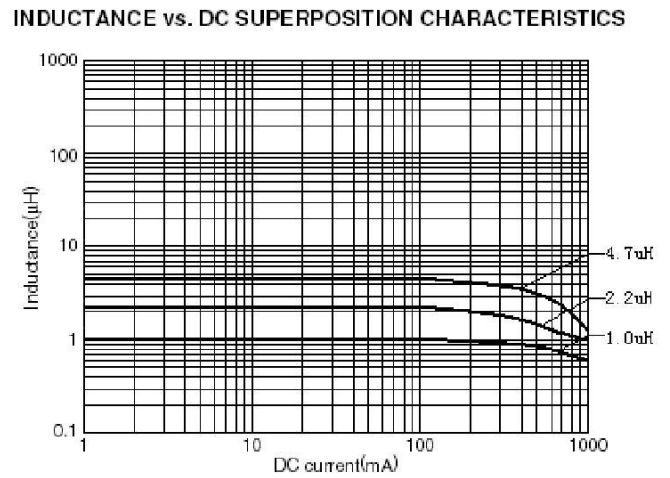
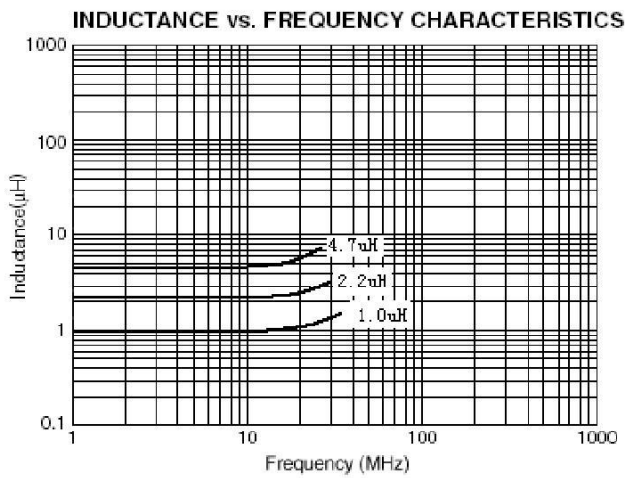


**HLFL 2016(0806) Series**

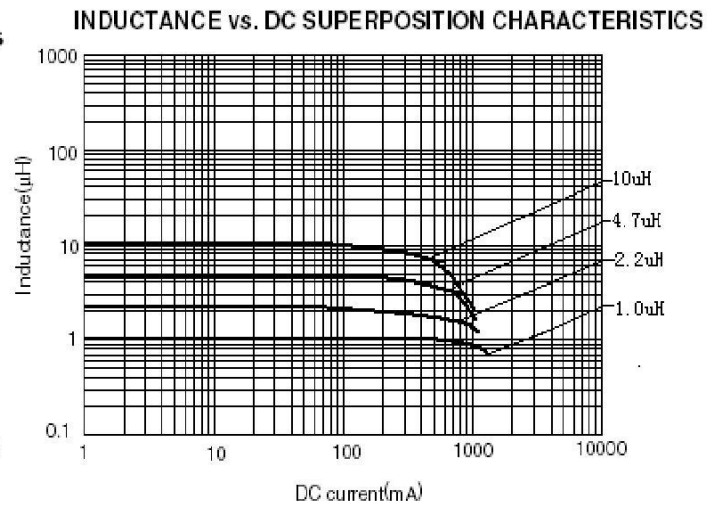
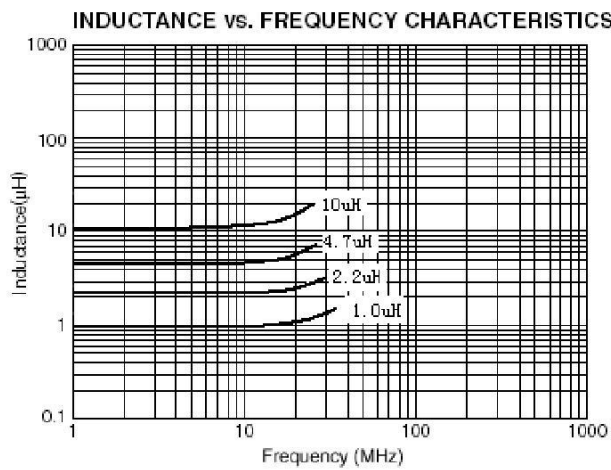


# Multilayer Chip Ferrite Large Current Inductor 叠层片式铁氧体大电流电感

## HLFL 2520(1008) Series



## HLFL 3216(1206) Series



## HLFL 3225(1210) Series

