

屏蔽耦合电感

Coupled Inductor (Shielded)



特性

Characteristics

具有两个相同绕组的双电感器

Double inductor with two identical windings

可提供5种不同尺寸

5 different sizes available

1:1变压器

1:1 transformer

应用

Application

反激电路

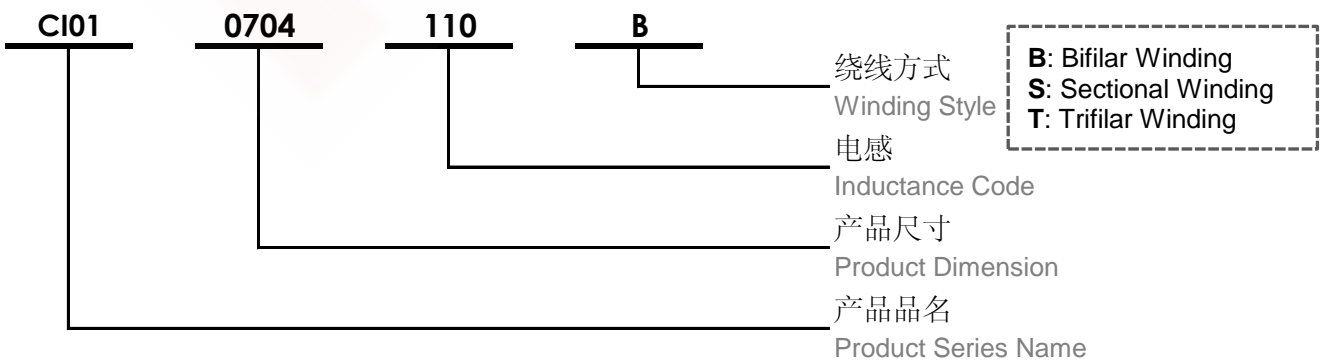
Flyback applications

升降压电路

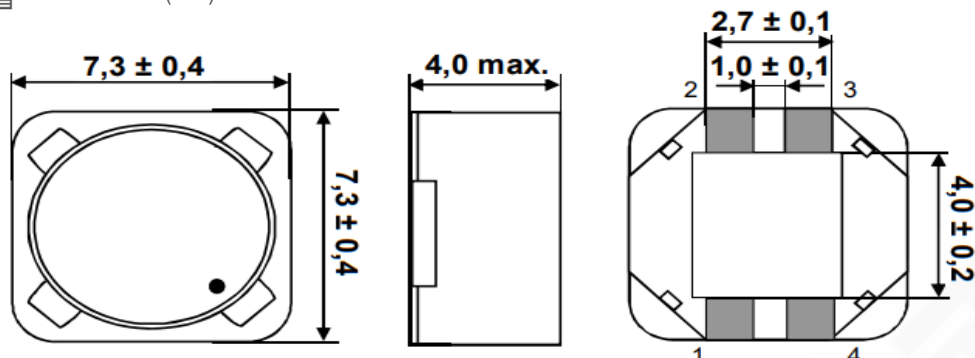
Switching regulators with second, unregulated output voltage

产品品名介绍

Product Number Structure



尺寸 Dimension (mm)



焊盘推荐 Land Pattern Recommended (mm)

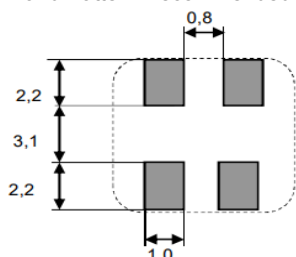
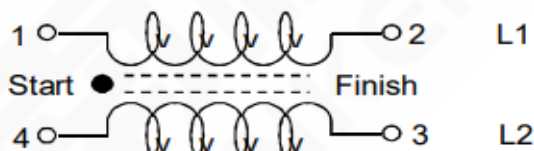


示意图 Schematics



电性特性 Electrical Properties

型号 Part No.	电感 Inductance L1,L2 μH	温升电流 Rated Current I_R max 40°C (mA)	直流电阻 DC Resistance DCRmax (Ω)	饱和电流 Saturation Current I_{sat} typ (A)	绕线方式 Winding Style	额定电压 Rated Voltage V_R
CI01-0704-1R3S	1.30 $\pm 20\%$	4.40	0.035	6.30	Sectional	80.00
CI01-0704-2R4S	2.40 $\pm 20\%$	3.60	0.052	4.80	Sectional	80.00
CI01-0704-3R3S	3.30 $\pm 20\%$	3.30	0.064	4.00	Sectional	80.00
CI01-0704-4R7S	4.70 $\pm 20\%$	1.30	0.075	3.00	Sectional	80.00
CI01-0704-5R6S	5.60 $\pm 20\%$	1.50	0.120	3.00	Sectional	80.00
CI01-0704-6R8S	6.80 $\pm 20\%$	1.40	0.135	2.80	Sectional	80.00
CI01-0704-8R2S	8.20 $\pm 20\%$	1.30	0.140	2.70	Sectional	80.00
CI01-0704-100S	10.00 $\pm 20\%$	1.00	0.150	2.00	Sectional	80.00
CI01-0704-220S	22.00 $\pm 20\%$	0.70	0.300	1.50	Sectional	80.00
CI01-0704-470S	47.00 $\pm 20\%$	0.90	0.750	1.00	Sectional	80.00
CI01-0704-101S	100.00 $\pm 20\%$	0.30	1.730	0.70	Sectional	80.00

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz / 0.25V

Inductance measure condition at 1.0 kHz / 0.25V

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

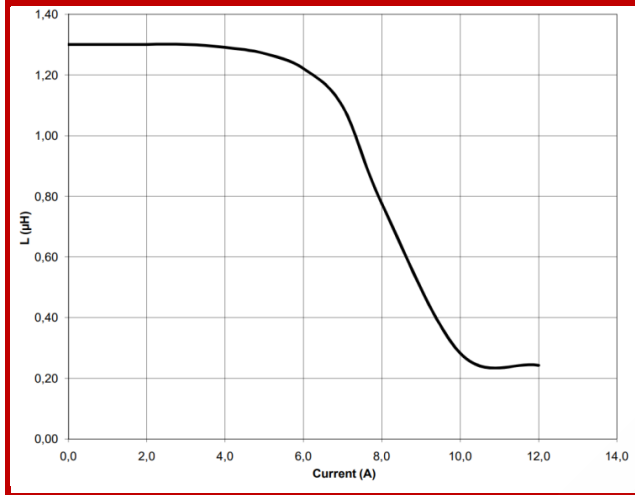
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



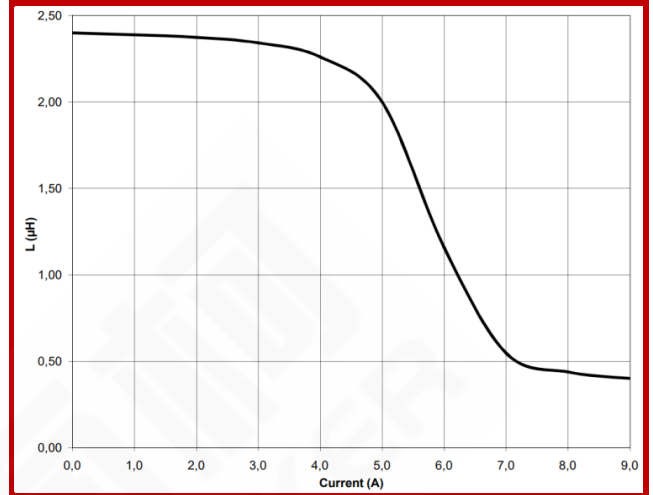
典型电感与电流特性

Typical Inductance vs. Current Characteristics

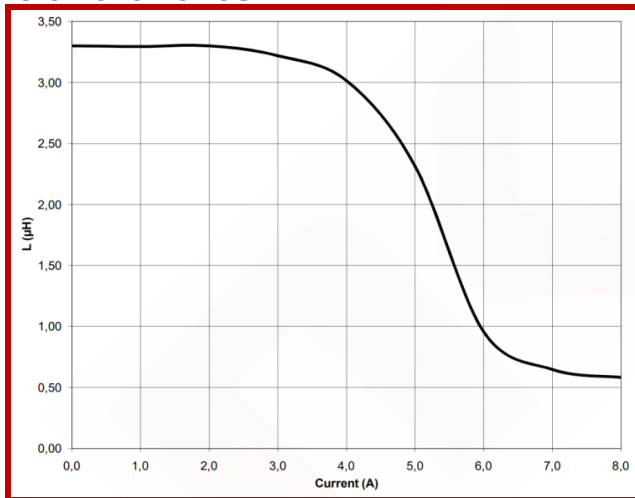
CI01-0704-1R3S



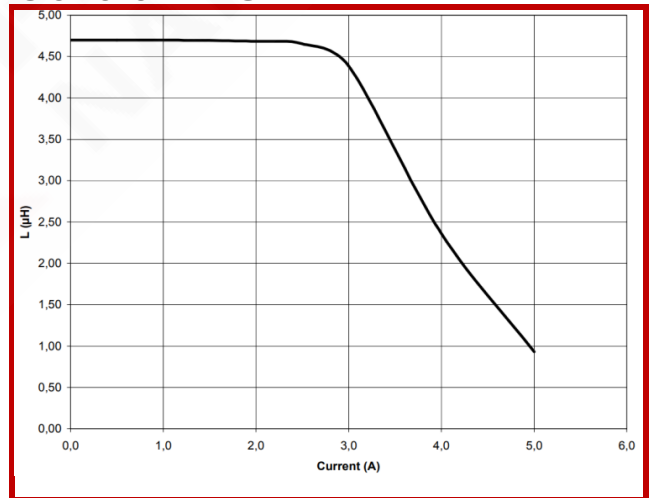
CI01-0704-2R4S



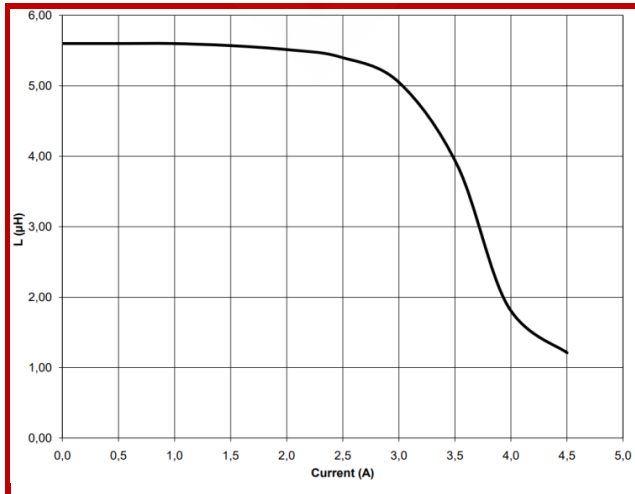
CI01-0704-3R3S



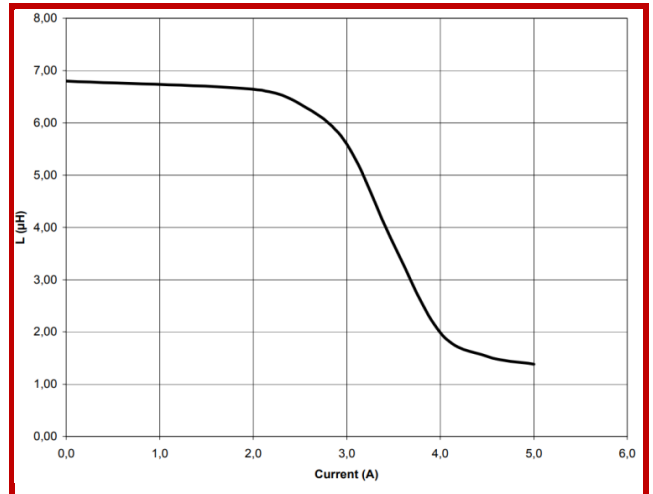
CI01-0704-4R7S



CI01-0704-5R6S



CI01-0704-6R8S

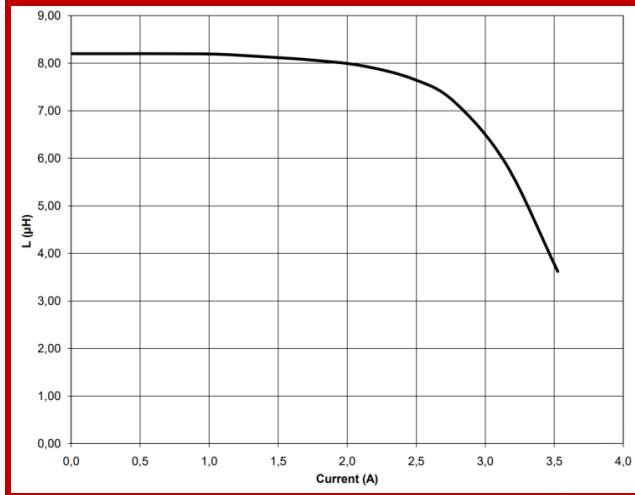




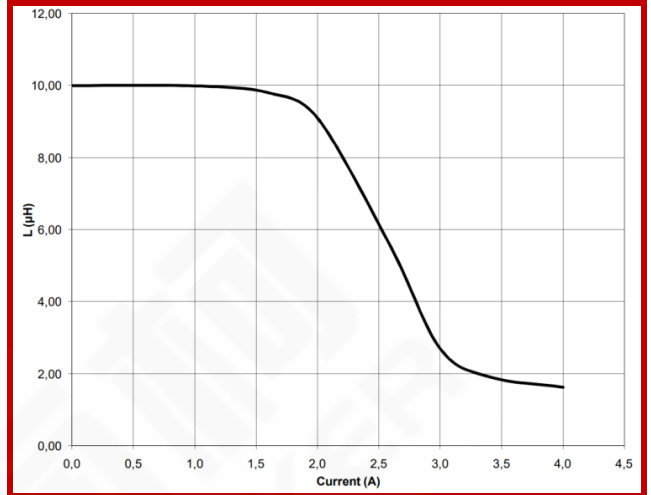
典型电感与电流特性

Typical Inductance vs. Current Characteristics

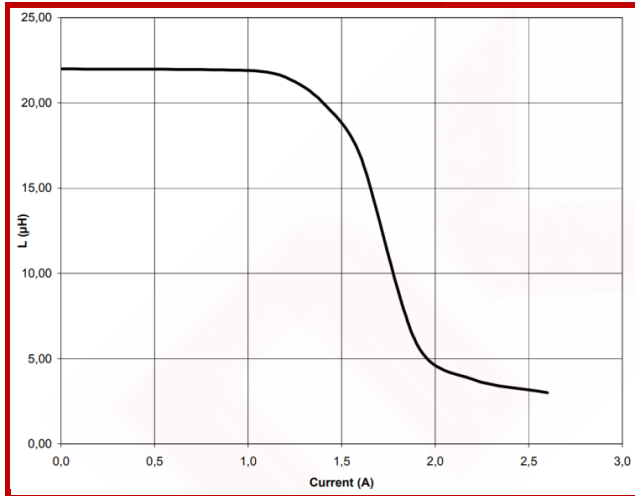
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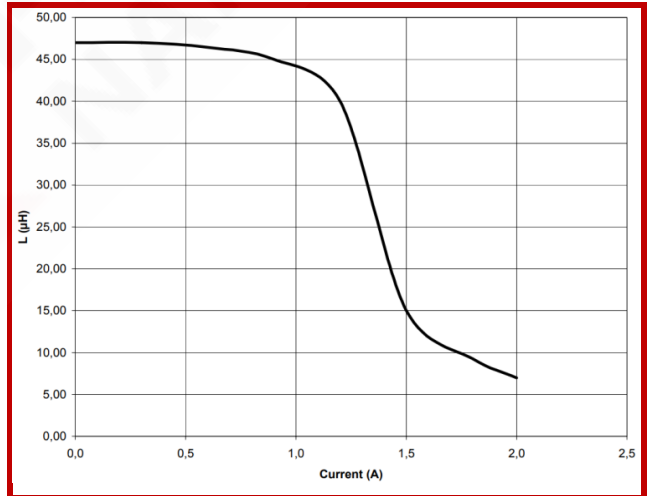
CI01-0704-100S



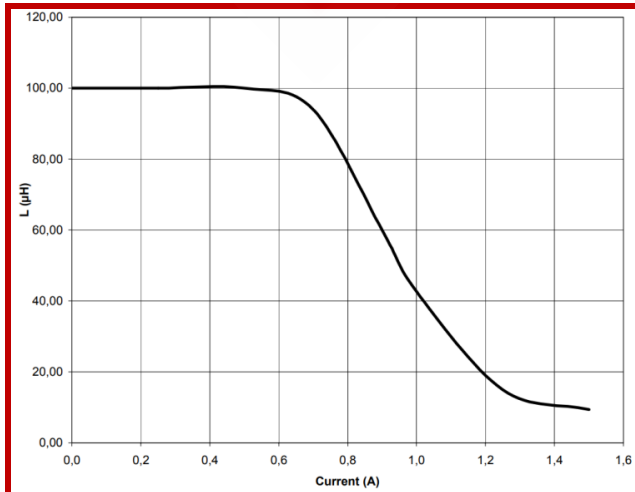
CI01-0704-220S



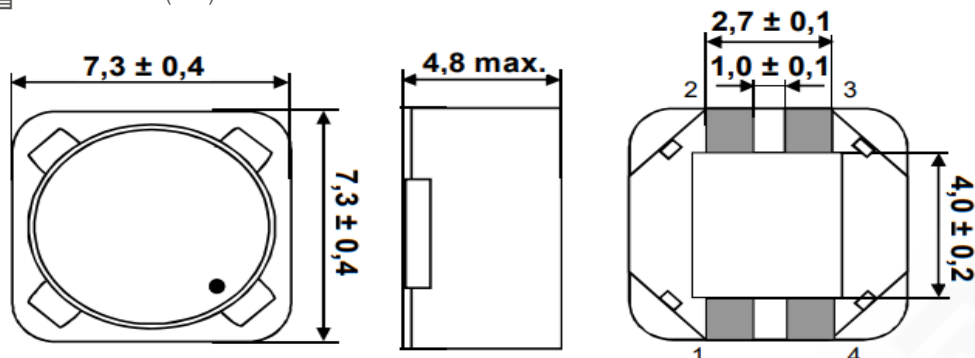
CI01-0704-470S



CI01-0704-101S



尺寸 Dimension (mm)



焊盘推荐 Land Pattern Recommended (mm)

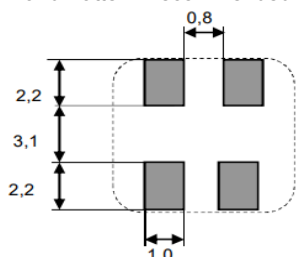
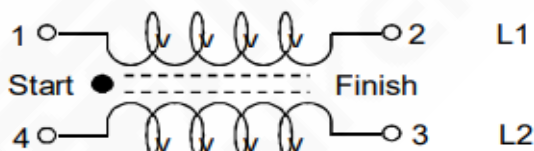


示意图 Schematics



电性特性 Electrical Properties

型号 Part No.	电感 Inductance L1,L2 μH	温升电流 Rated Current I_R max 40°C (mA)	直流电阻 DC Resistance DCRmax (Ω)	饱和电流 Saturation Current I_{sat} typ (A)	绕线方式 Winding Style	额定电压 Rated Voltage V_R
CI01-0705-1R8S	1.80 $\pm 20\%$	4.70	0.034	6.50	Sectional	80.00
CI01-0705-2R4S	2.40 $\pm 20\%$	4.20	0.042	5.60	Sectional	80.00
CI01-0705-3R3S	3.30 $\pm 20\%$	3.70	0.052	5.00	Sectional	80.00
CI01-0705-4R7S	4.70 $\pm 20\%$	2.55	0.064	4.00	Sectional	80.00
CI01-0705-5R6S	5.60 $\pm 20\%$	1.90	0.095	3.50	Sectional	80.00
CI01-0705-6R8S	6.80 $\pm 20\%$	1.80	0.102	3.20	Sectional	80.00
CI01-0705-8R2S	8.20 $\pm 20\%$	1.70	0.110	2.90	Sectional	80.00
CI01-0705-100S	10.00 $\pm 20\%$	1.10	0.120	2.80	Sectional	80.00
CI01-0705-220S	22.00 $\pm 20\%$	0.80	0.215	1.80	Sectional	80.00
CI01-0705-470S	33.00 $\pm 20\%$	0.70	0.400	1.50	Sectional	80.00
CI01-0705-101S	100.00 $\pm 20\%$	0.65	1.029	0.90	Sectional	80.00

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz / 0.25V

Inductance measure condition at 1.0 kHz / 0.25V

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

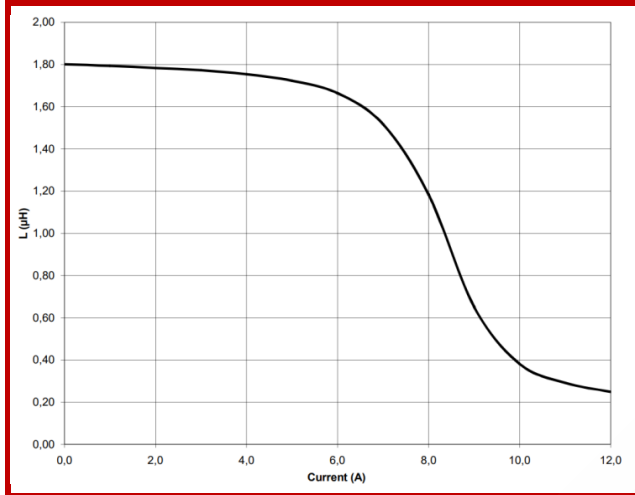
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



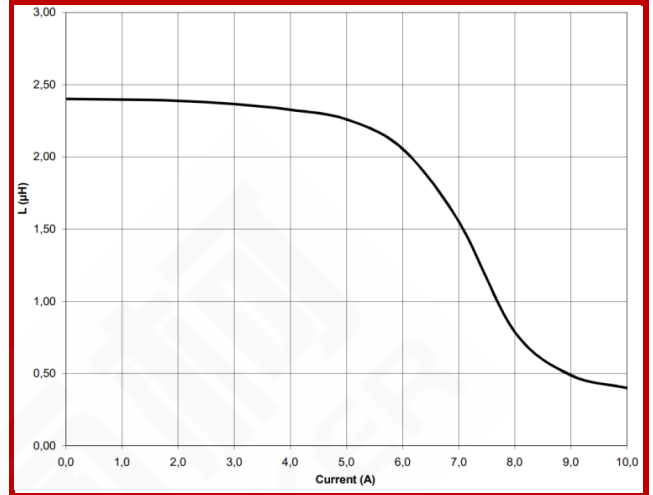
典型电感与电流特性

Typical Inductance vs. Current Characteristics

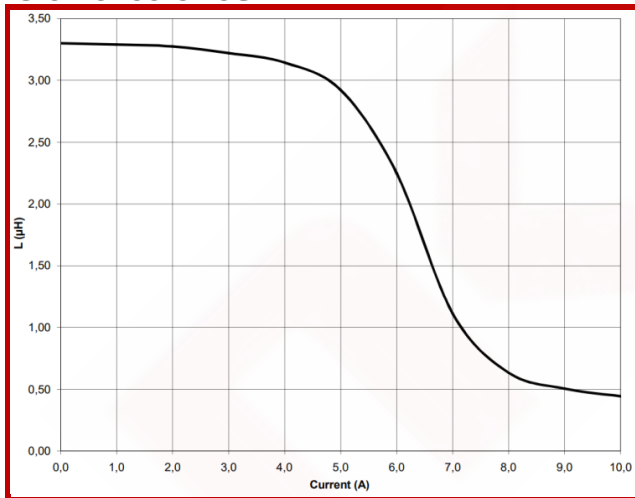
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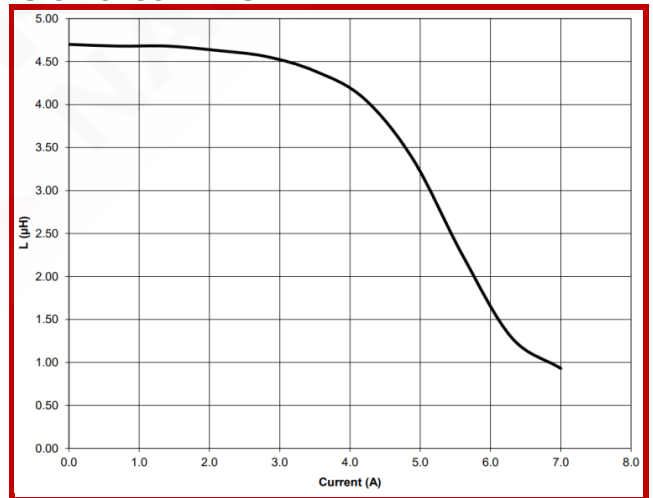
CI01-0705-2R4S



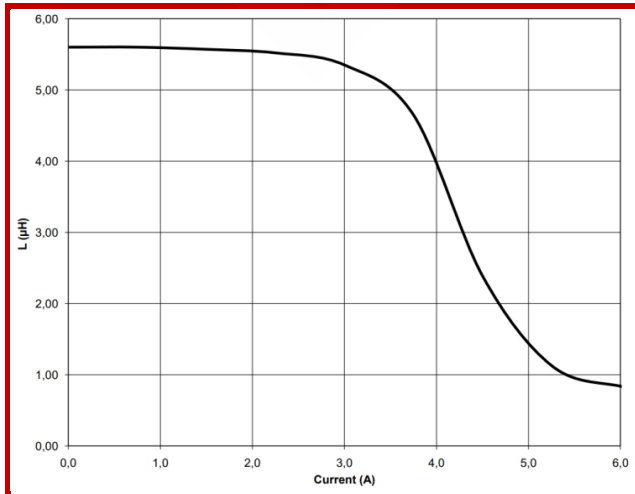
CI01-0705-3R3S



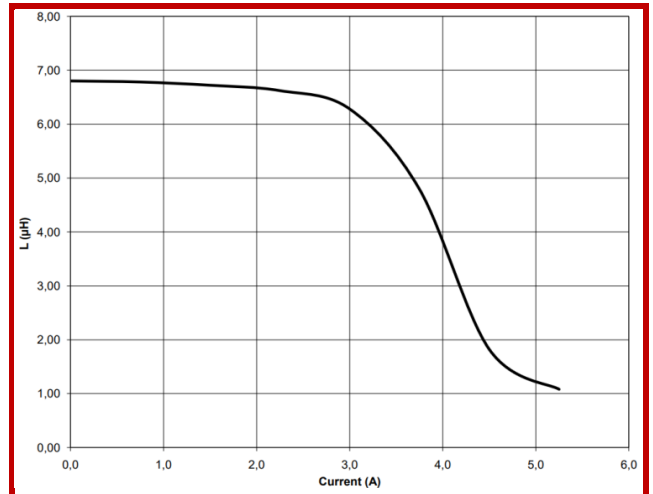
CI01-0705-4R7S



CI01-0705-5R6S



CI01-0705-6R8S

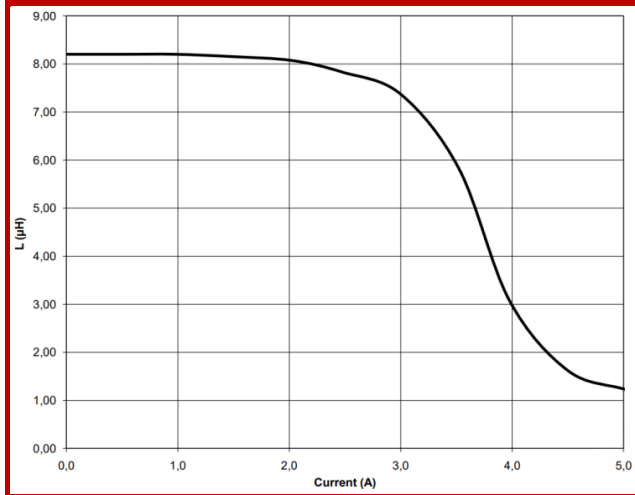




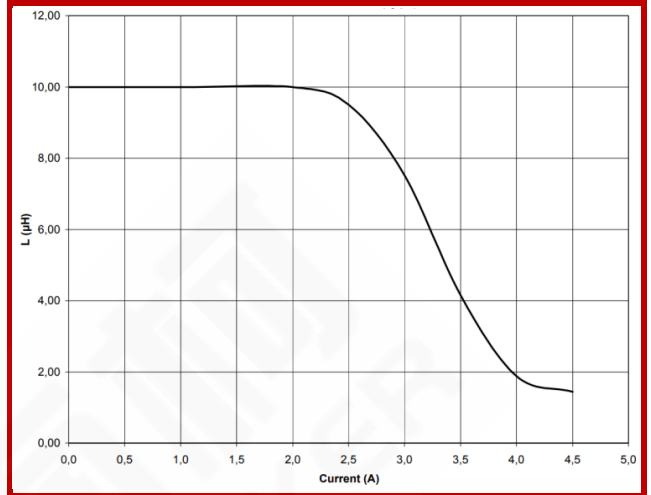
典型电感与电流特性

Typical Inductance vs. Current Characteristics

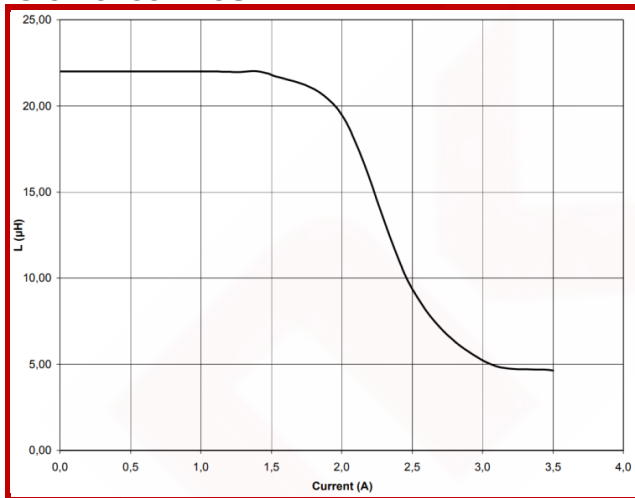
CI01-0705-8R2S



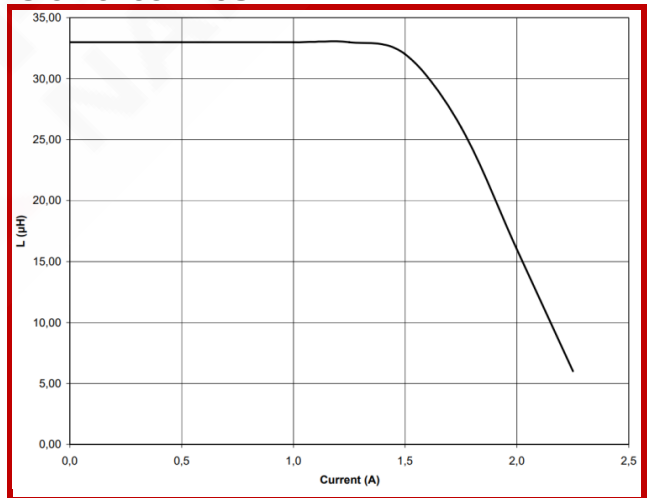
CI01-0705-100S



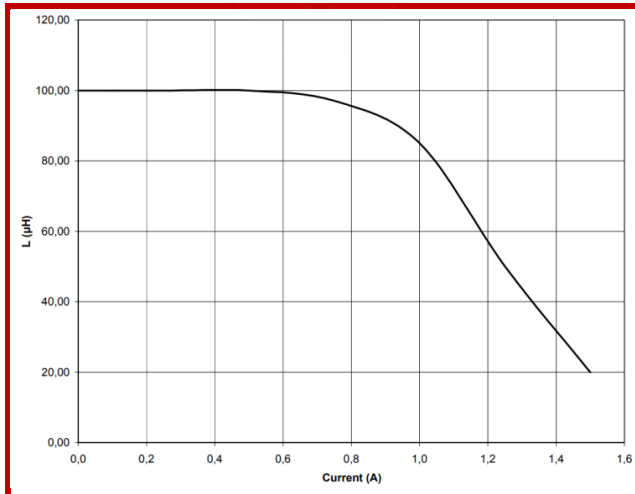
CI01-0705-220S



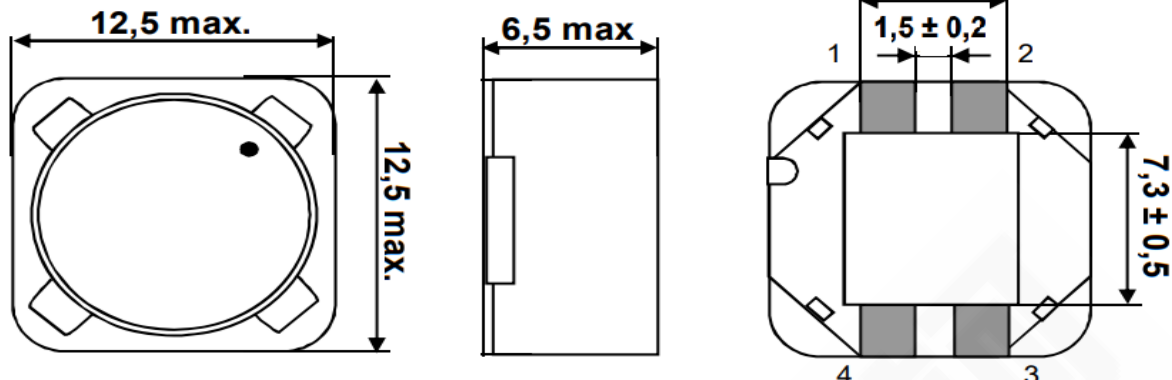
CI01-0705-470S



CI01-0705-101S



尺寸 Dimension (mm)



焊盘推荐 Land Pattern Recommended (mm)

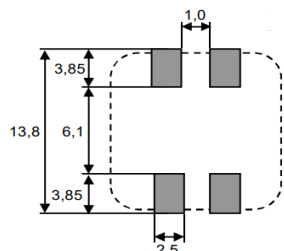


示意图 Schematics



电性特性 Electrical Properties

型号 Part No.	电感 Inductance L1,L2 μH	温升电流 Rated Current I_R max 40°C (mA)	直流电阻 DC Resistance DCRmax (Ω)	饱和电流 Saturation Current $I_{\text{sat typ}}$ (A)	绕线方式 Winding Style	额定电压 Rated Voltage V_R
CI01-1206-1R5S	1.50 $\pm 20\%$	5.85	0.190	14.00	Sectional	80.00
CI01-1206-2R4S	2.40 $\pm 20\%$	5.50	0.170	11.50	Sectional	80.00
CI01-1206-3R3S	3.30 $\pm 20\%$	4.91	0.210	8.90	Sectional	80.00
CI01-1206-4R7S	4.70 $\pm 20\%$	4.22	0.280	8.00	Sectional	80.00
CI01-1206-6R8S	6.80 $\pm 20\%$	3.90	0.320	6.80	Sectional	80.00
CI01-1206-100S	10.00 $\pm 20\%$	3.28	0.440	5.25	Sectional	80.00
CI01-1206-220S	22.00 $\pm 20\%$	2.47	0.080	3.30	Sectional	80.00
CI01-1206-470S	47.00 $\pm 20\%$	1.80	0.150	2.75	Sectional	80.00
CI01-1206-101S	100.00 $\pm 20\%$	1.20	0.320	1.70	Sectional	80.00

测试状态

Test Condition

☆ 电感测试条件为 100 kHz / 5.0mA

Inductance measure condition at 100 kHz / 5.0mA

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

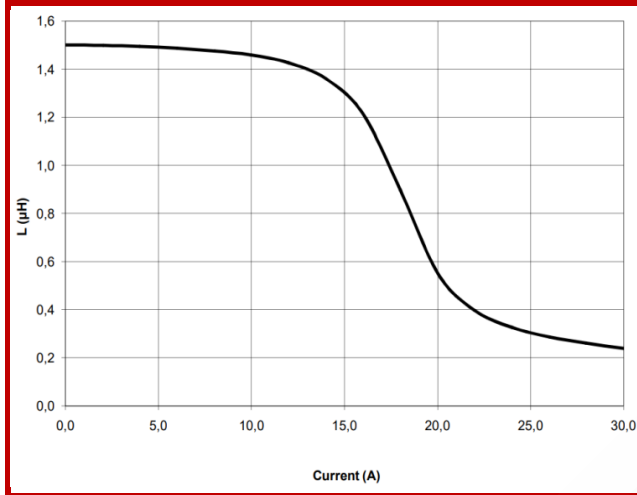
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



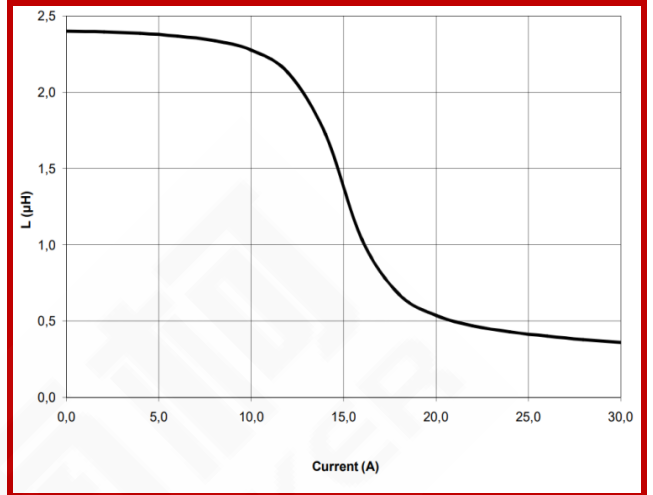
典型电感与电流特性

Typical Inductance vs. Current Characteristics

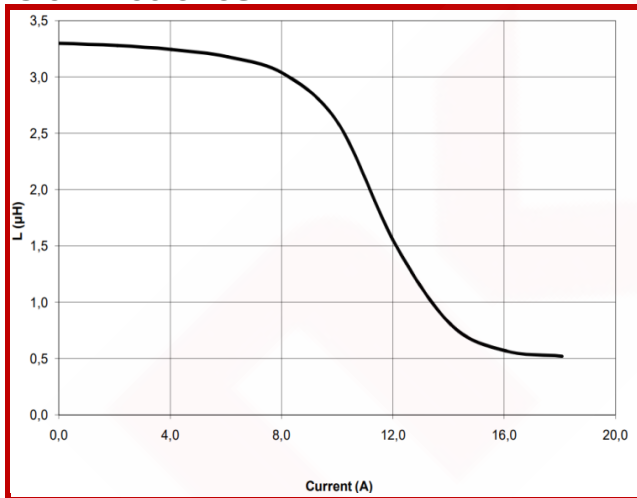
CI01-1206-1R5S



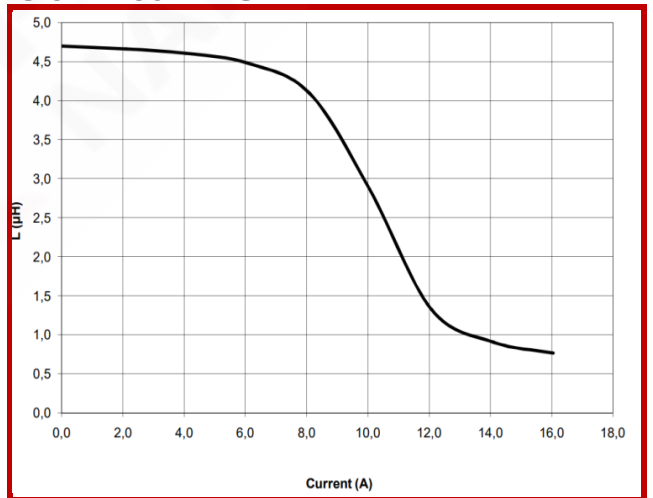
CI01-1206-2R4S



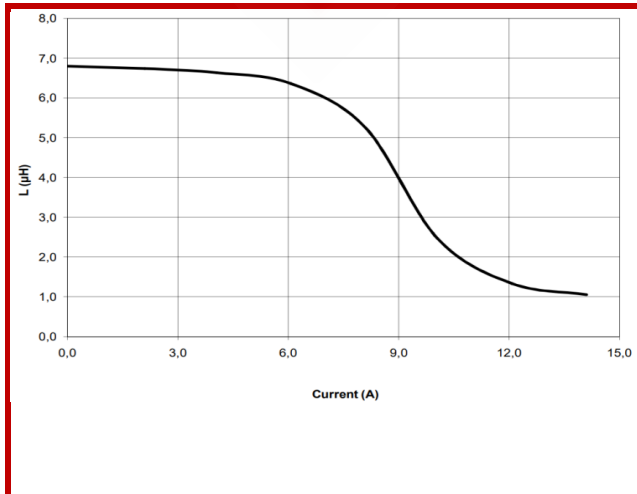
CI01-1206-3R3S



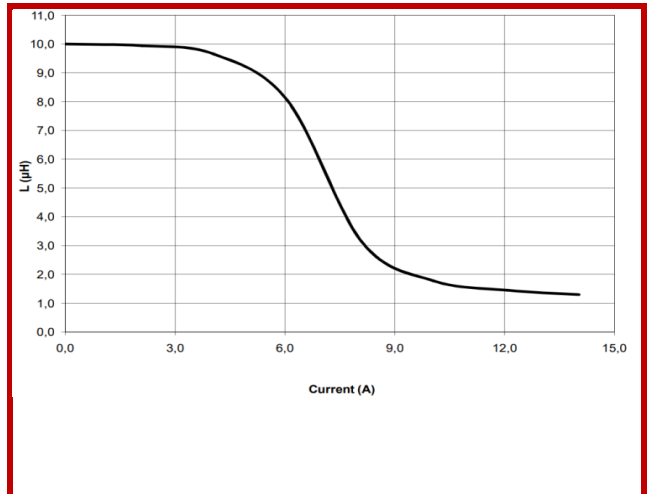
CI01-1206-4R7S



CI01-1206-6R8S



CI01-1206-100S

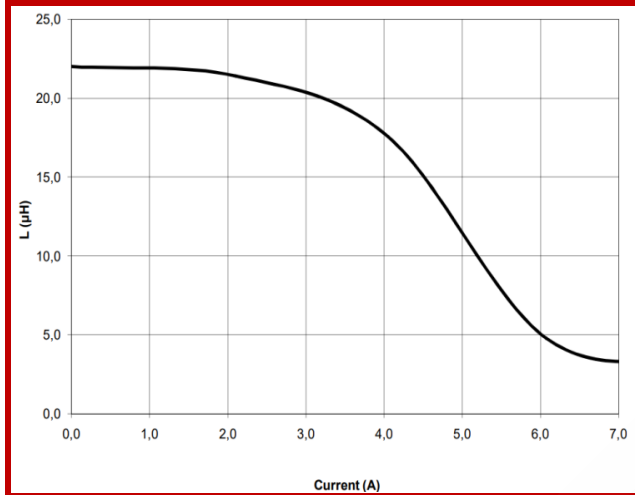




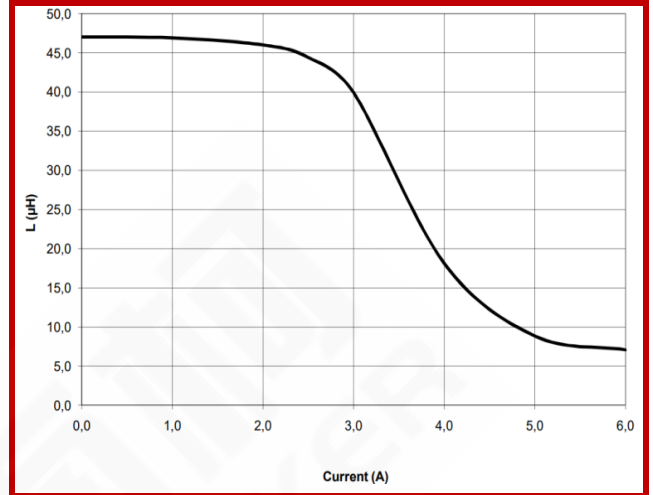
典型电感与电流特性

Typical Inductance vs. Current Characteristics

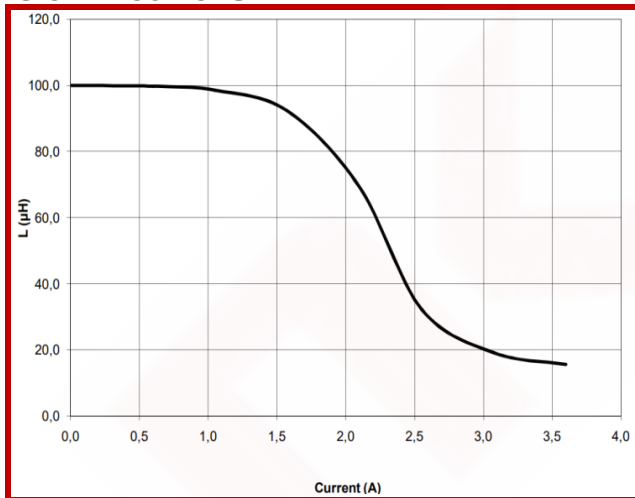
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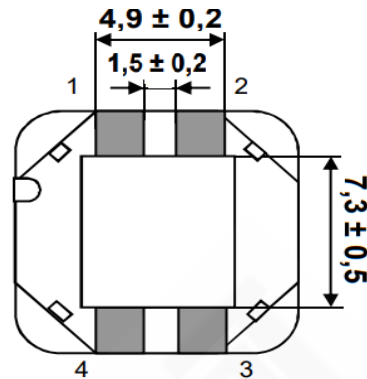
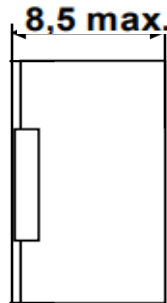
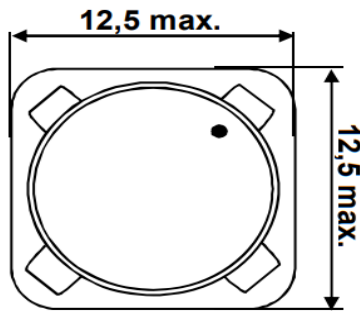
CI01-1206-470S



CI01-1206-101S



尺寸 Dimension (mm)



焊盘推荐 Land Pattern Recommended (mm)

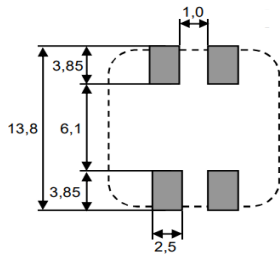
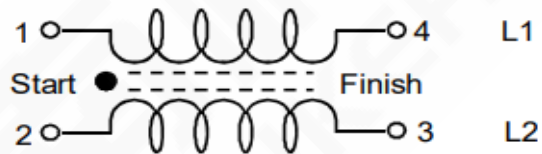


示意图 Schematics



电性特性 Electrical Properties

型号 Part No.	电感 Inductance L1,L2 μH	温升电流 Rated Current I_R max 40°C (mA)	直流电阻 DC Resistance DCRmax (Ω)	饱和电流 Saturation Current I_{sat} typ (A)	绕线方式 Winding Style	额定电压 Rated Voltage V_R
CI01-1208-1R5S	1.50 $\pm 20\%$	6.25	0.015	18.00	Sectional	80.00
CI01-1208-2R4S	2.40 $\pm 20\%$	6.00	0.016	14.00	Sectional	80.00
CI01-1208-3R3S	3.30 $\pm 20\%$	5.14	0.022	11.00	Sectional	80.00
CI01-1208-4R7S	4.70 $\pm 20\%$	4.87	0.024	10.00	Sectional	80.00
CI01-1208-100S	10.00 $\pm 20\%$	5.20	0.042	7.50	Sectional	80.00
CI01-1208-150S	15.00 $\pm 20\%$	3.30	0.055	6.10	Sectional	80.00
CI01-1208-220S	22.00 $\pm 20\%$	2.79	0.070	5.00	Sectional	80.00
CI01-1208-330S	33.00 $\pm 20\%$	2.25	0.105	3.90	Sectional	80.00
CI01-1208-470S	47.00 $\pm 20\%$	2.02	0.120	3.10	Sectional	80.00
CI01-1208-680S	68.00 $\pm 20\%$	1.66	0.180	2.80	Sectional	80.00
CI01-1208-101S	100.00 $\pm 20\%$	1.38	0.255	2.20	Sectional	80.00
CI01-1208-221S	220.00 $\pm 20\%$	0.91	0.580	1.60	Sectional	80.00

测试状态

Test Condition

☆ 电感测试条件为 100 kHz / 5.0mA

Inductance measure condition at 100 kHz / 5.0mA

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

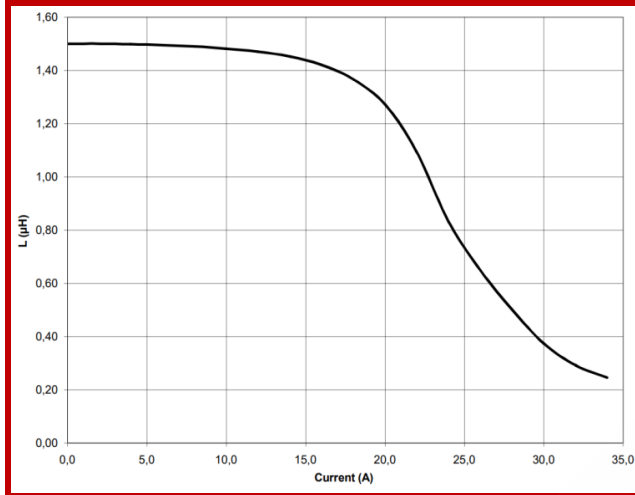
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



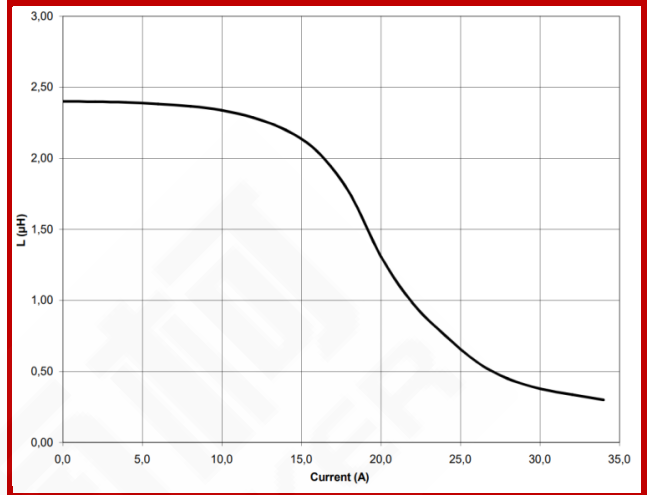
典型电感与电流特性

Typical Inductance vs. Current Characteristics

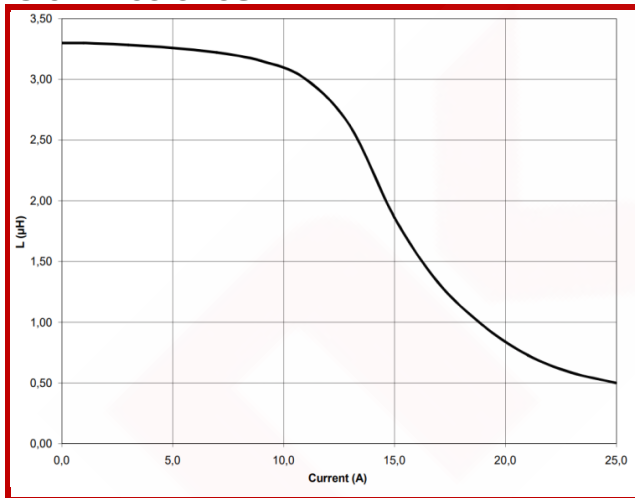
CI01-1208-1R5S



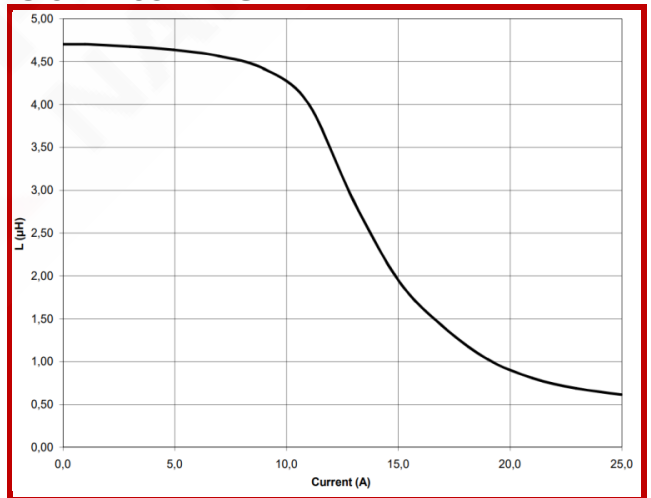
CI01-1208-2R4S



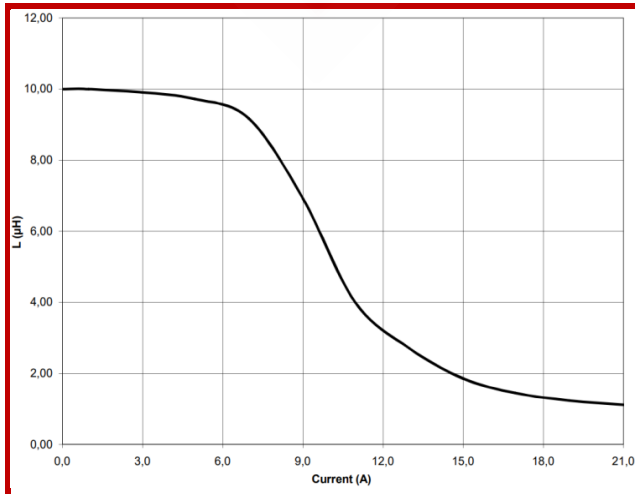
CI01-1208-3R3S



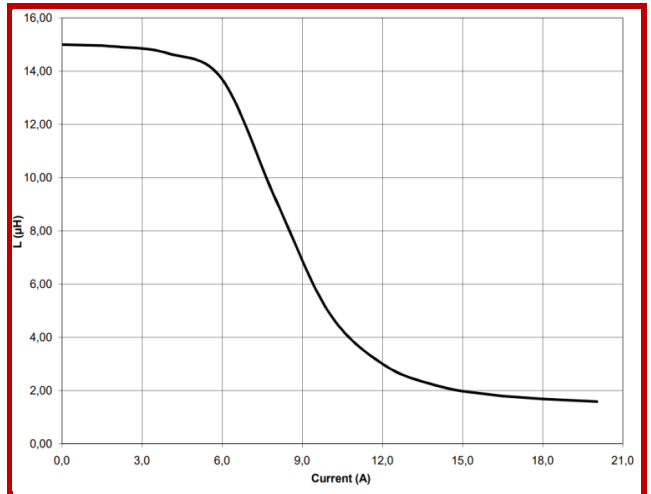
CI01-1208-4R7S



CI01-1208-100S



CI01-1208-150S

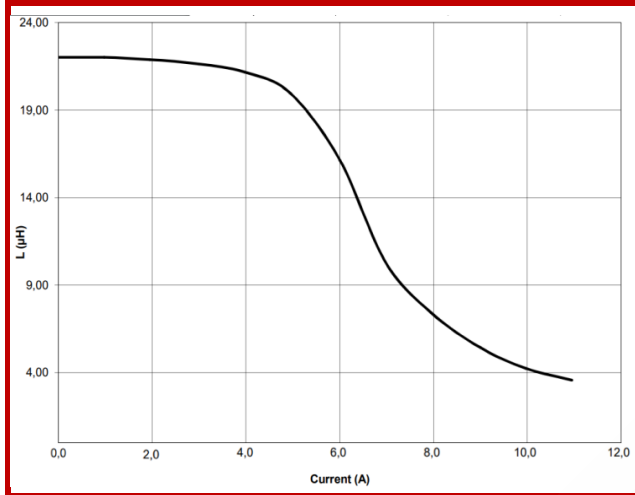




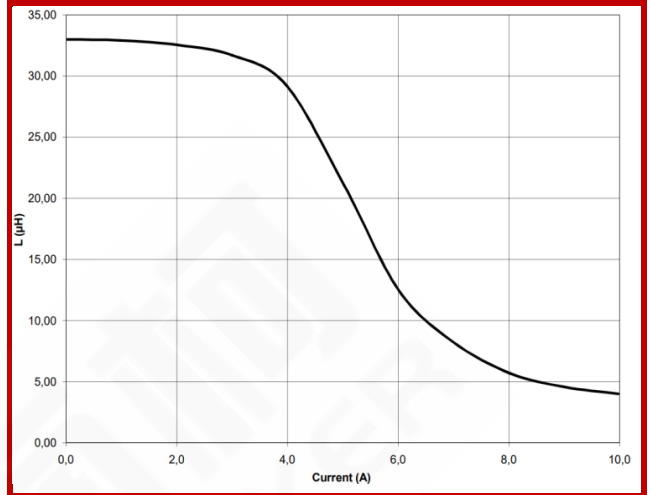
典型电感与电流特性

Typical Inductance vs. Current Characteristics

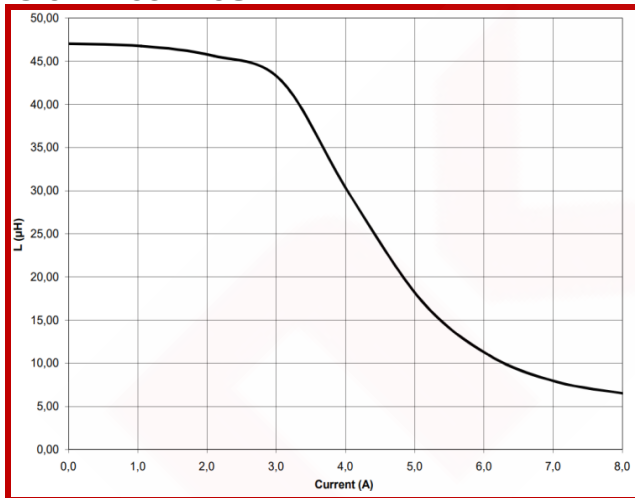
CI01-1208-220S



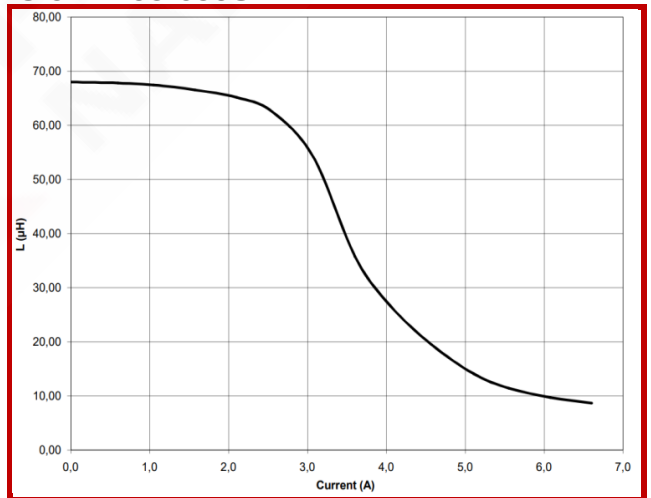
CI01-1208-330S



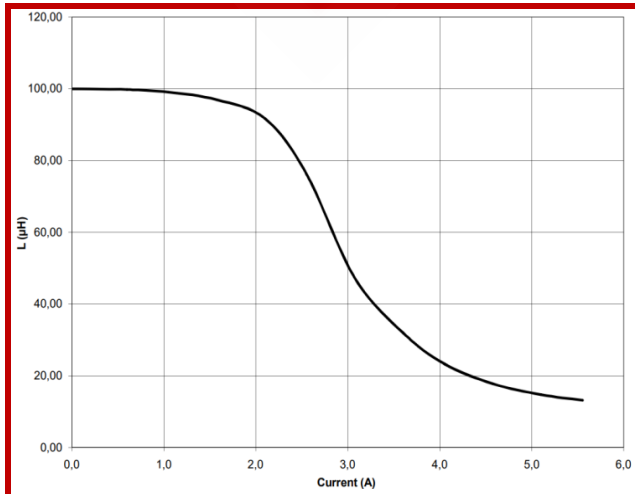
CI01-1208-470S



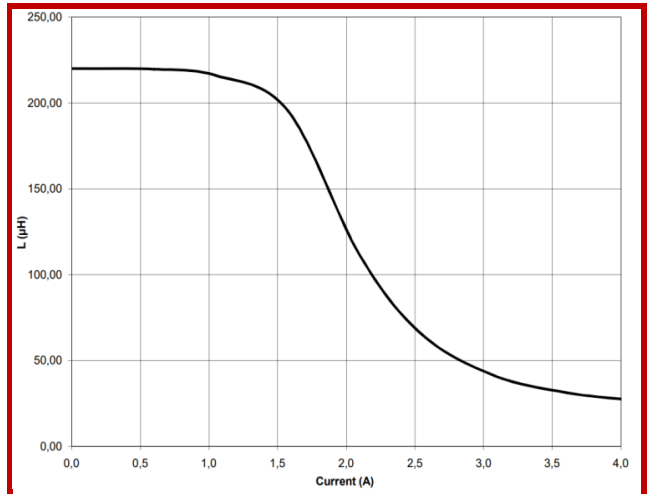
CI01-1208-680S



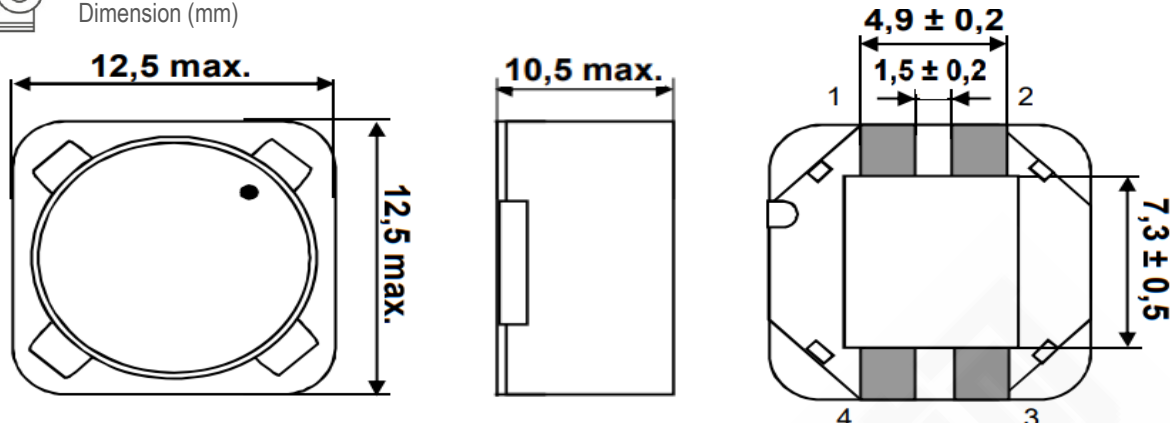
CI01-1208-101S



CI01-1208-221S



尺寸 Dimension (mm)



焊盘推荐 Land Pattern Recommended (mm)

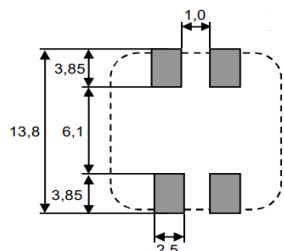


示意图 Schematics



电性特性 Electrical Properties

型号 Part No.	电感 Inductance L1,L2 μH	温升电流 Rated Current I_R max 40°C (mA)	直流电阻 DC Resistance DCRmax (Ω)	饱和电流 Saturation Current I_{sat} typ (A)	绕线方式 Winding Style	额定电压 Rated Voltage V_R
CI01-1210-2R2S	2.20 $\pm 20\%$	4.10	0.017	19.00	Sectional	80.00
CI01-1210-3R3S	3.30 $\pm 20\%$	3.70	0.020	15.50	Sectional	80.00
CI01-1210-4R7S	4.70 $\pm 20\%$	3.60	0.023	13.00	Sectional	80.00
CI01-1210-6R8S	6.80 $\pm 20\%$	3.30	0.031	11.50	Sectional	80.00
CI01-1210-100S	10.00 $\pm 20\%$	3.20	0.040	8.00	Sectional	80.00
CI01-1210-220S	22.00 $\pm 20\%$	3.50	0.080	5.00	Sectional	80.00
CI01-1210-330S	33.00 $\pm 20\%$	2.00	0.100	4.40	Sectional	80.00
CI01-1210-470S	47.00 $\pm 20\%$	1.90	0.130	3.60	Sectional	80.00

测试状态

Test Condition

☆ 电感测试条件为 100 kHz / 0.25V

Inductance measure condition at 100 kHz / 0.25V

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

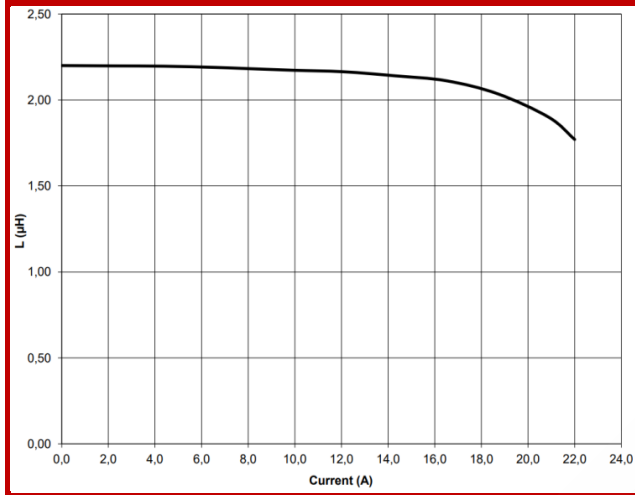
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



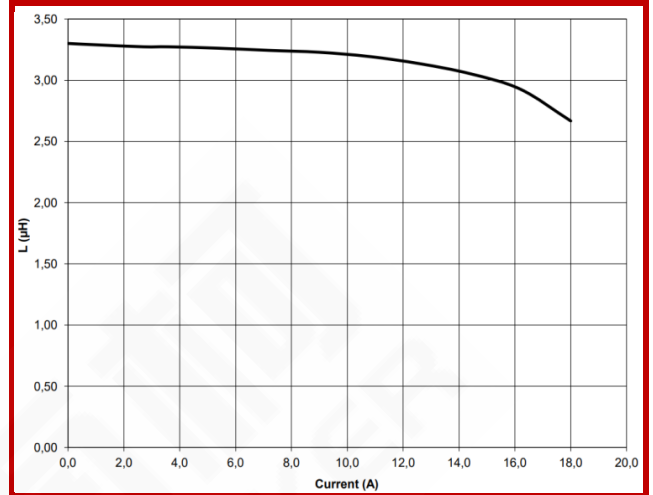
典型电感与电流特性

Typical Inductance vs. Current Characteristics

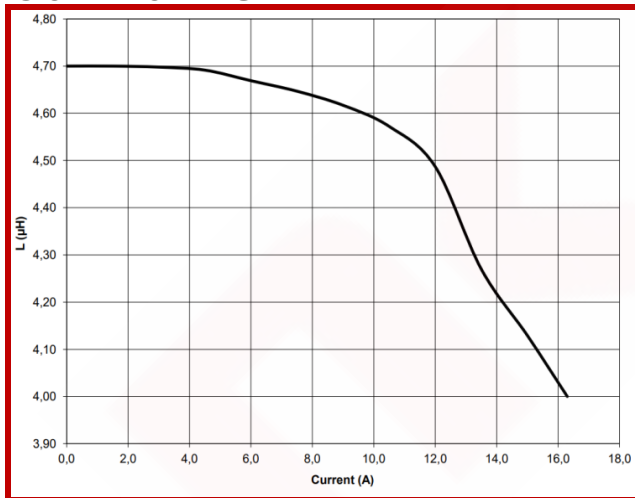
CI01-1210-2R2S



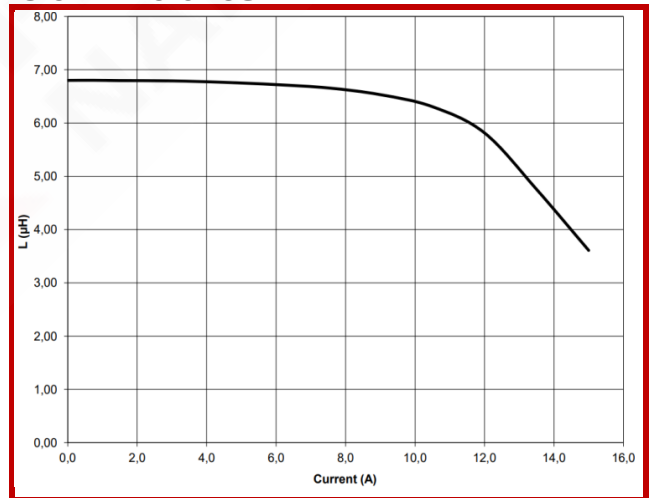
CI01-1210-3R3S



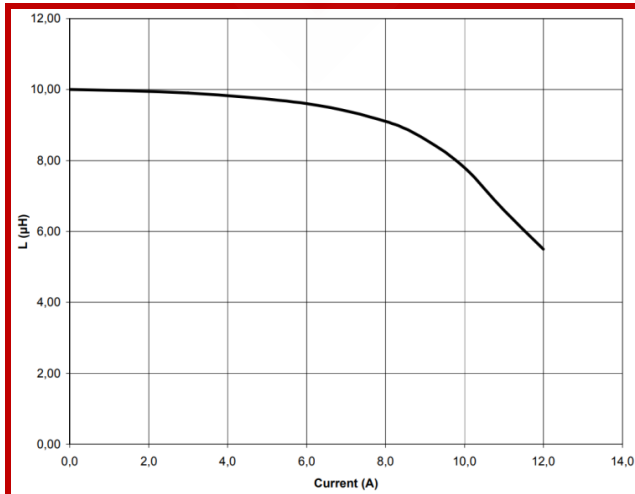
CI01-1210-4R7S



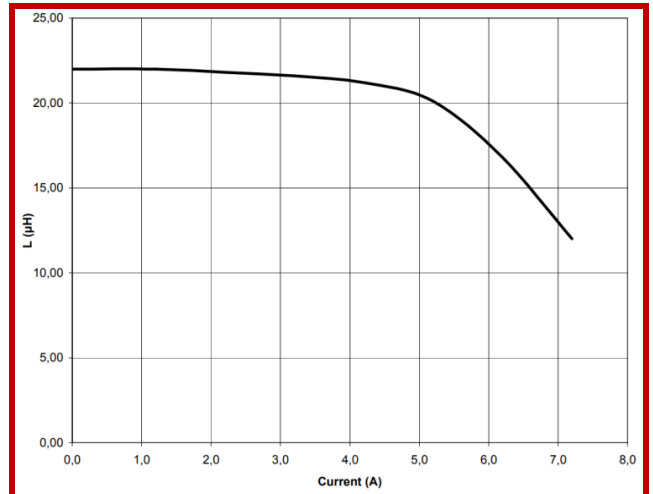
CI01-1210-6R8S



CI01-1210-100S



CI01-1210-220S

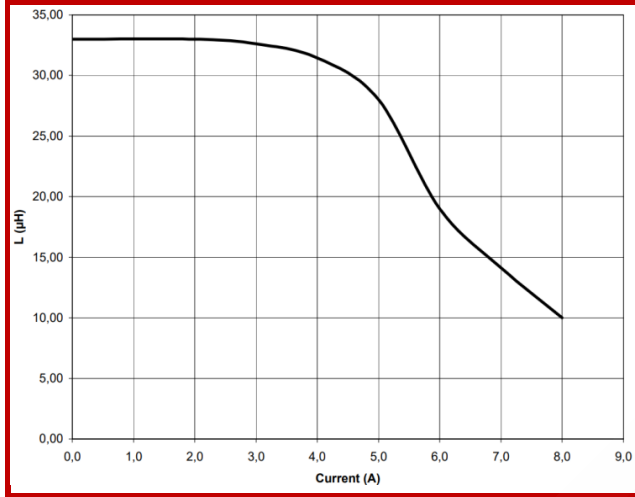




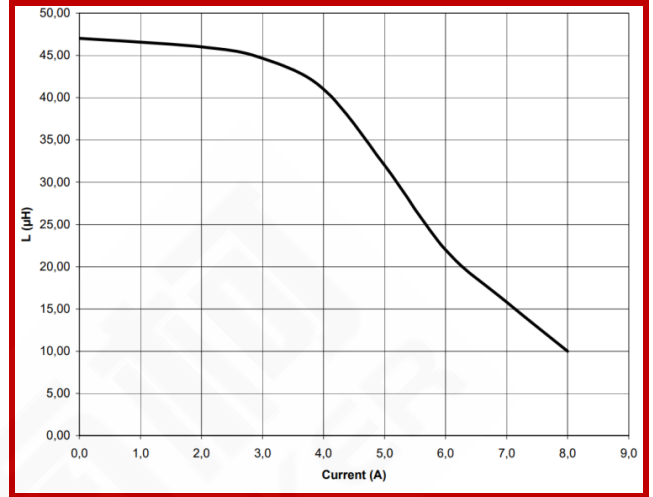
典型电感与电流特性

Typical Inductance vs. Current Characteristics

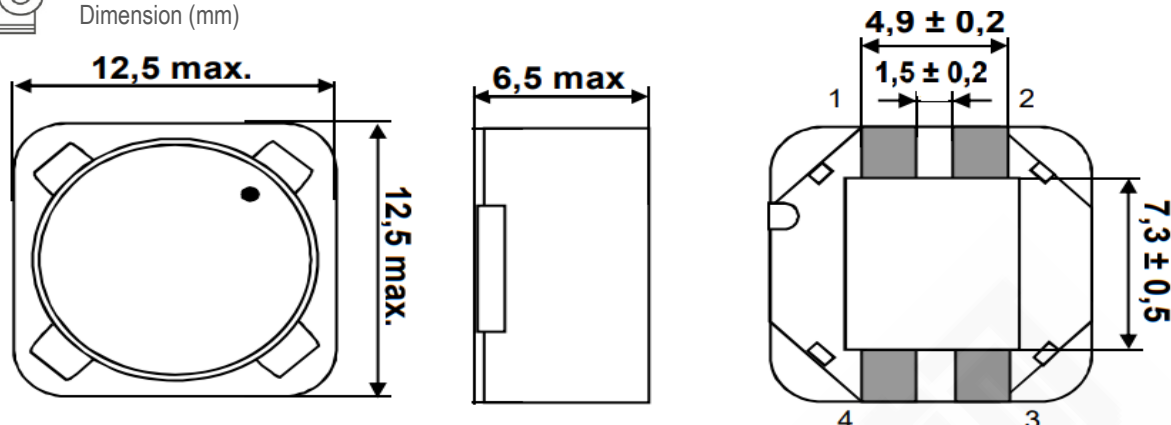
CI01-1210-330S



CI01-1210-470S



尺寸 Dimension (mm)



焊盘推荐 Land Pattern Recommended (mm)

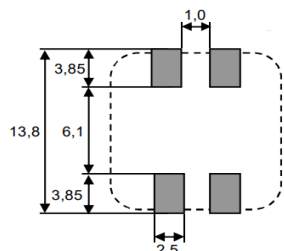


示意图 Schematics



电性特性 Electrical Properties

型号 Part No.	电感 Inductance L1,L2 μH	温升电流 Rated Current I_R max 40°C (mA)	直流电阻 DC Resistance DCRmax (Ω)	饱和电流 Saturation Current $I_{\text{sat typ}}$ (A)	绕线方式 Winding Style	额定电压 Rated Voltage V_R
CI01-1206-4R7B	4.70 $\pm 20\%$	3.00	0.028	8.00	Bifilar	80.00
CI01-1206-6R8B	6.80 $\pm 20\%$	2.80	0.040	6.50	Bifilar	80.00
CI01-1206-100B	10.00 $\pm 20\%$	2.00	0.050	5.00	Bifilar	80.00
CI01-1206-220B	22.00 $\pm 20\%$	1.85	0.090	3.00	Bifilar	80.00
CI01-1206-330B	33.00 $\pm 20\%$	1.20	0.170	2.80	Bifilar	80.00
CI01-1206-470B	47.00 $\pm 20\%$	1.10	0.180	2.40	Bifilar	80.00
CI01-1206-101B	100.00 $\pm 20\%$	1.50	0.360	1.80	Bifilar	80.00

测试状态

Test Condition

☆ 电感测试条件为 1.0 kHz / 0.25V

Inductance measure condition at 1.0 kHz / 0.25V

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

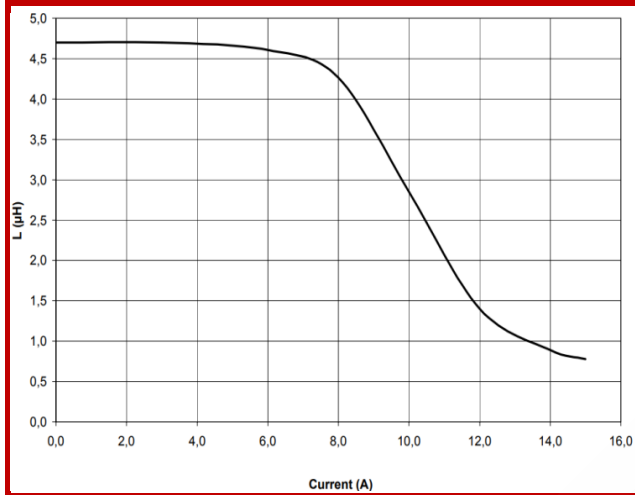
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



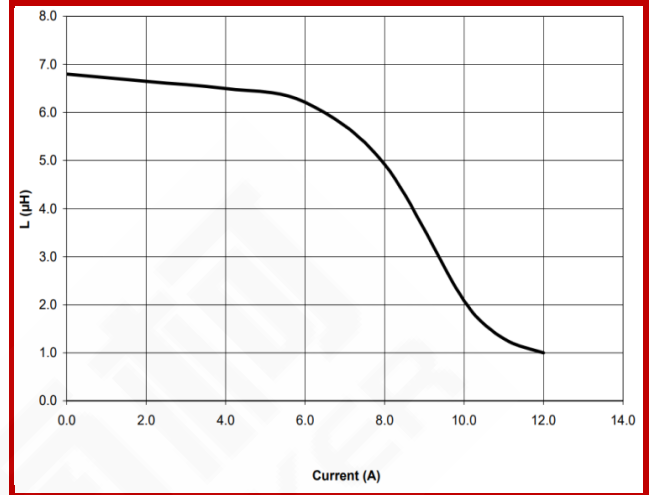
典型电感与电流特性

Typical Inductance vs. Current Characteristics

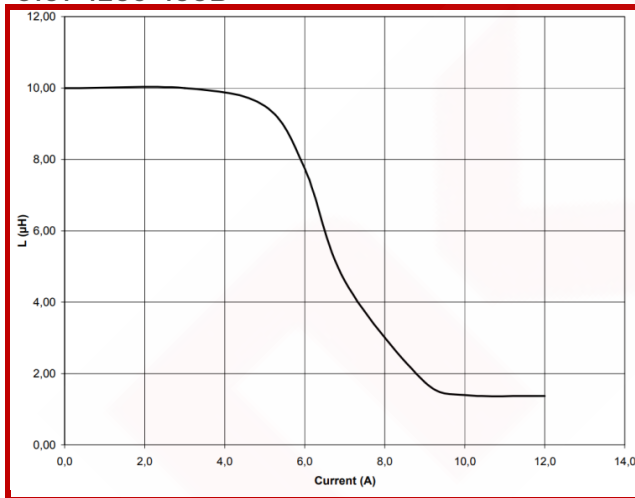
CI01-1206-4R7B



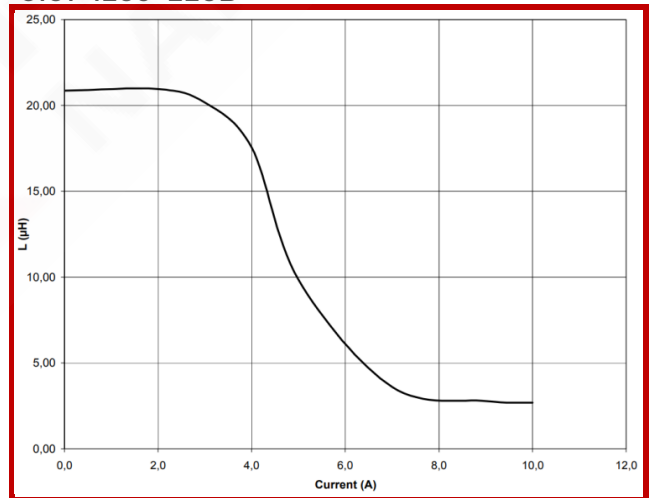
CI01-1206-6R8B



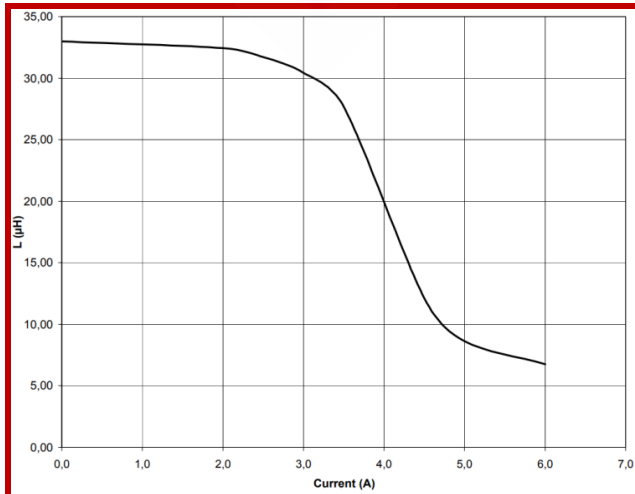
CI01-1206-100B



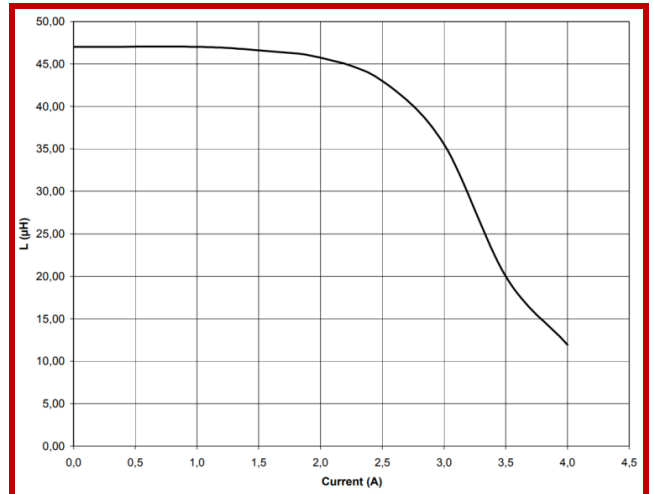
CI01-1206-220B



CI01-1206-330B



CI01-1206-470B

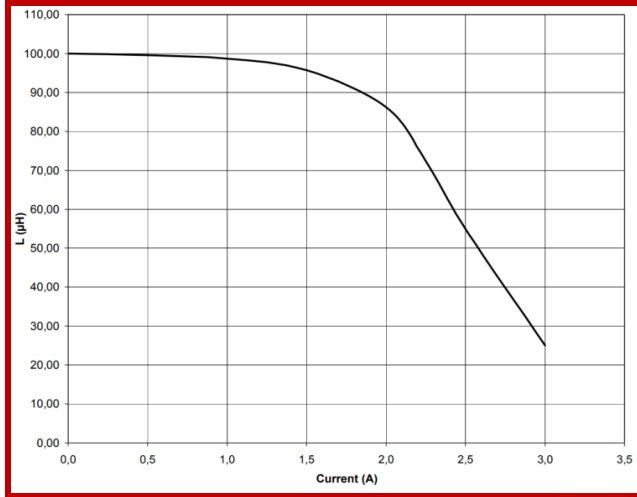




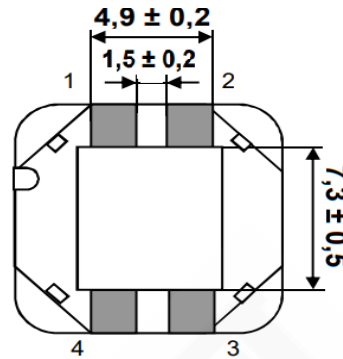
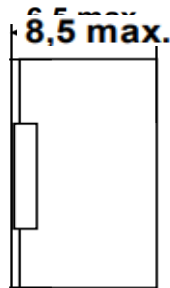
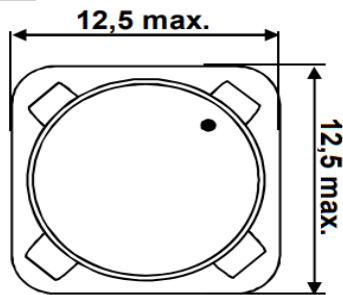
典型电感与电流特性

Typical Inductance vs. Current Characteristics

CI01-1206-101B



尺寸 Dimension (mm)



焊盘推荐 Land Pattern Recommended (mm)

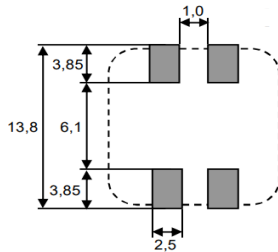
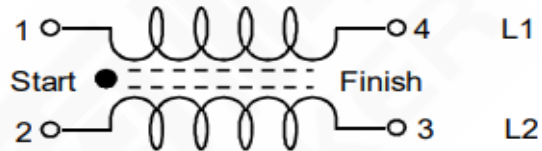


示意图 Schematics



电性特性 Electrical Properties

型号 Part No.	电感 Inductance L1,L2 μ H	温升电流 Rated Current I_R max 40°C (mA)	直流电阻 DC Resistance DCRmax (Ω)	饱和电流 Saturation Current I_{sat} typ (A)	绕线方式 Winding Style	额定电压 Rated Voltage V_R
CI01-1208-1R5B	1.50 \pm 20%	8.60	0.016	17.50	Bifilar	80.00
CI01-1208-2R4B	2.40 \pm 20%	7.80	0.018	15.00	Bifilar	80.00
CI01-1208-3R3B	3.30 \pm 20%	7.10	0.021	12.00	Bifilar	80.00
CI01-1208-4R7B	4.70 \pm 20%	3.60	0.030	10.00	Bifilar	80.00
CI01-1208-6R8B	6.80 \pm 20%	3.20	0.035	8.00	Bifilar	80.00
CI01-1208-100B	10.00 \pm 20%	2.70	0.044	7.00	Bifilar	80.00
CI01-1208-220B	22.00 \pm 20%	2.45	0.080	5.20	Bifilar	80.00
CI01-1208-470B	47.00 \pm 20%	1.45	0.150	3.10	Bifilar	80.00
CI01-1208-680B	68.00 \pm 20%	1.35	0.215	3.00	Bifilar	80.00
CI01-1208-101B	100.00 \pm 20%	1.40	0.300	2.00	Bifilar	80.00
CI01-1208-151B	150.00 \pm 20%	1.00	0.400	1.70	Bifilar	80.00
CI01-1208-221B	220.00 \pm 20%	0.90	0.650	1.40	Bifilar	80.00
CI01-1208-471B	470.00 \pm 20%	0.70	1.200	0.90	Bifilar	80.00

测试状态

Test Condition

☆ 电感测试条件为 100 kHz / 0.25V

Inductance measure condition at 100 kHz / 0.25V

☆ 工作温度: -40°C ~ +125°C

Operating Temperature: -40°C ~ +125°C

☆ 饱和电流: 电感值下降其初始值的10%时所加载的实际直流电流值

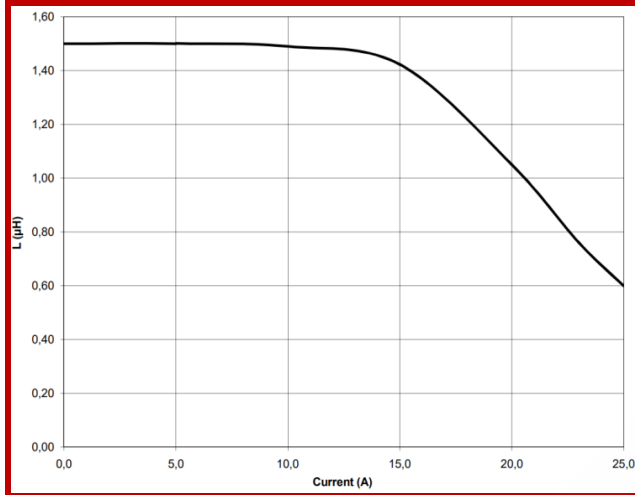
Saturation Current: The actual value of DC current when the inductance drop 10% of initial value



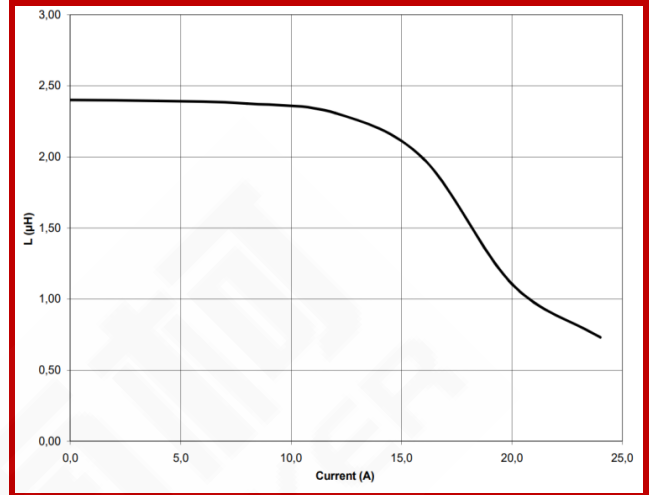
典型电感与电流特性

Typical Inductance vs. Current Characteristics

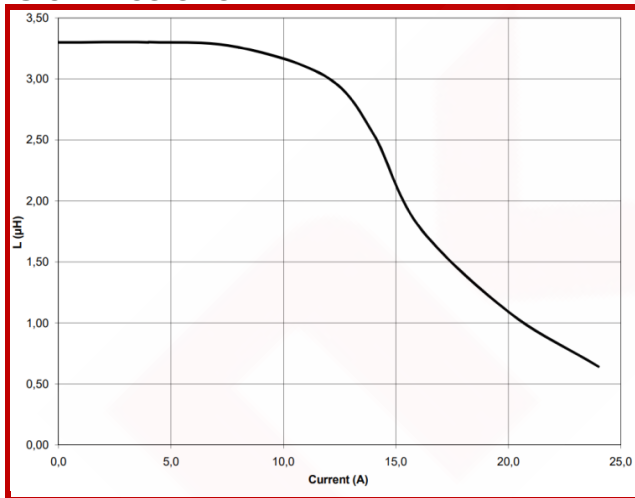
CI01-1208-1R5B



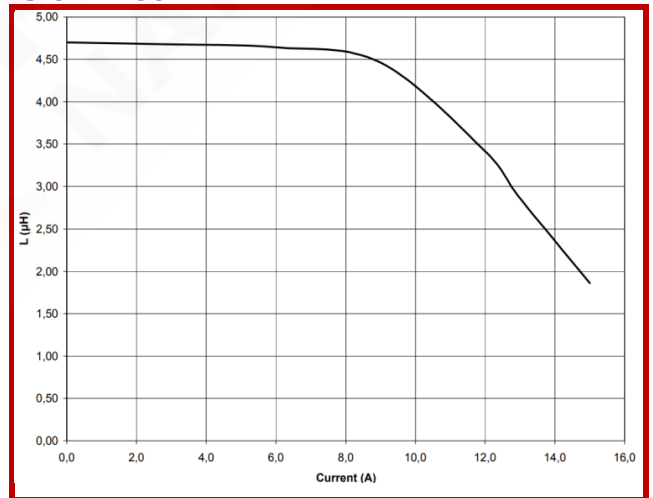
CI01-1208-2R4B



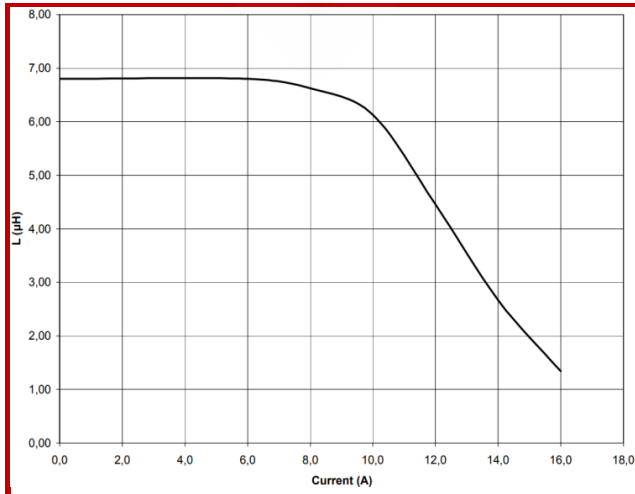
CI01-1208-3R3B



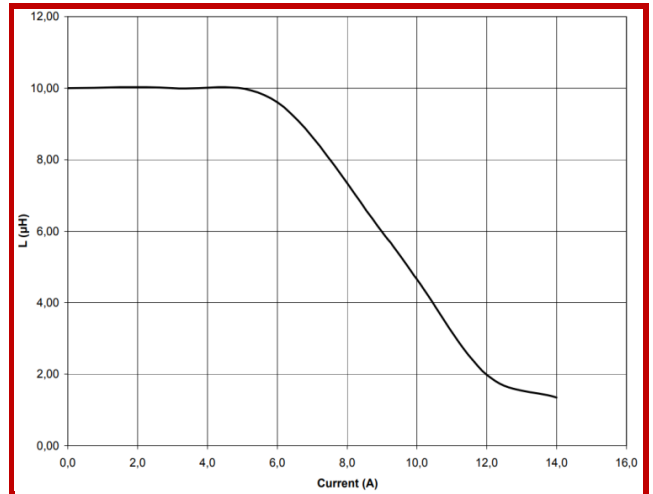
CI01-1208-4R7B



CI01-1208-6R8B



CI01-1208-100B

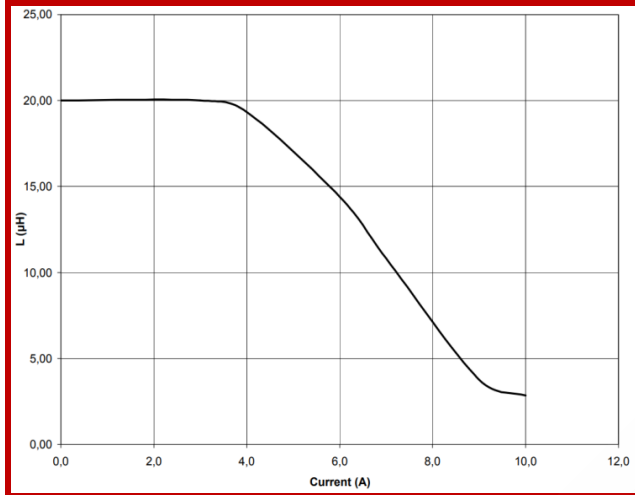




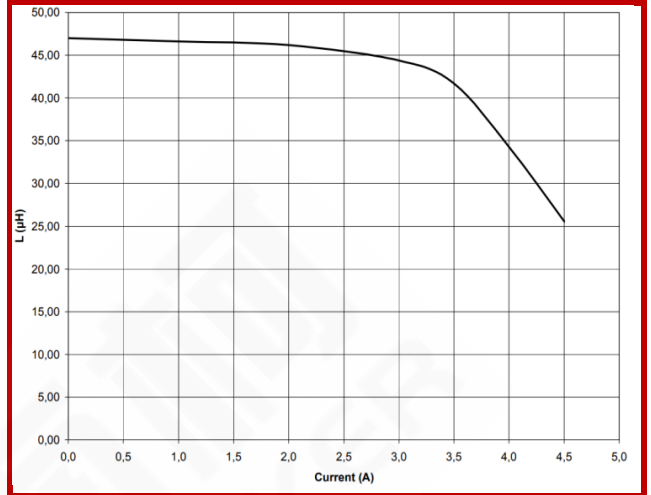
典型电感与电流特性

Typical Inductance vs. Current Characteristics

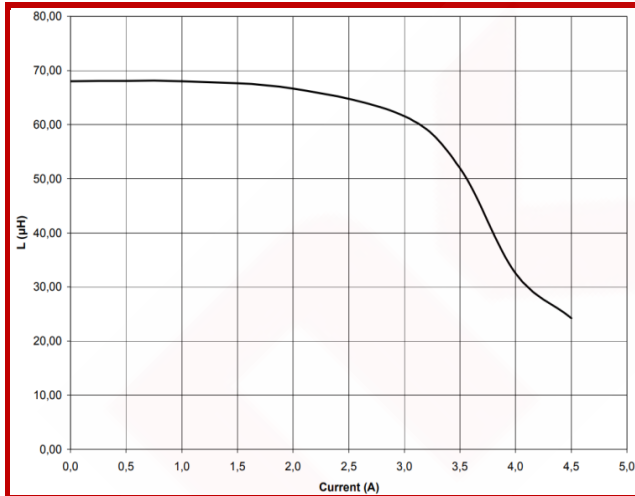
CI01-1208-220B



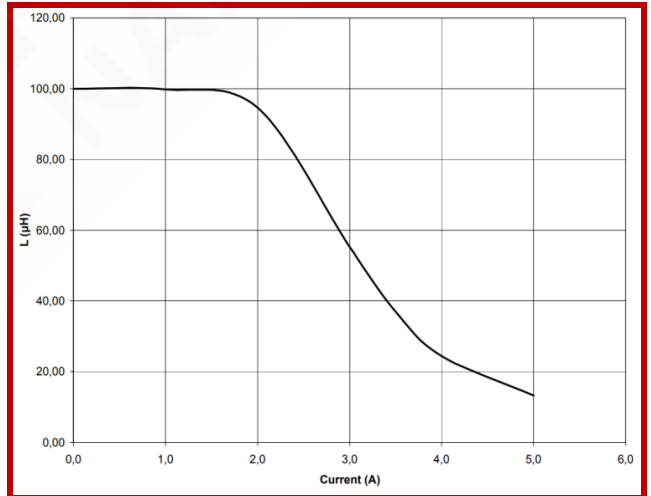
CI01-1208-470B



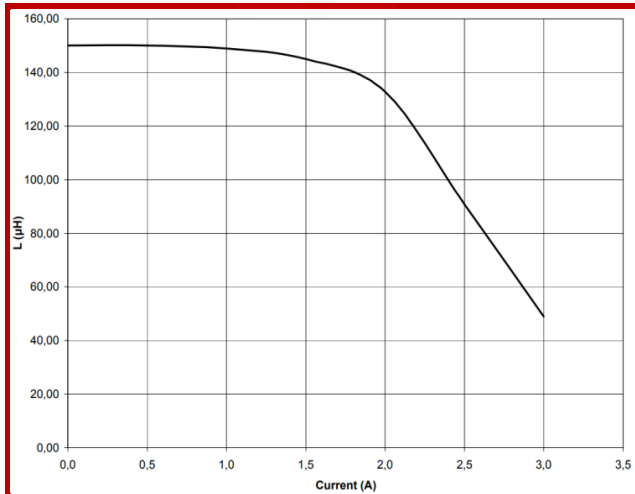
CI01-1208-680B



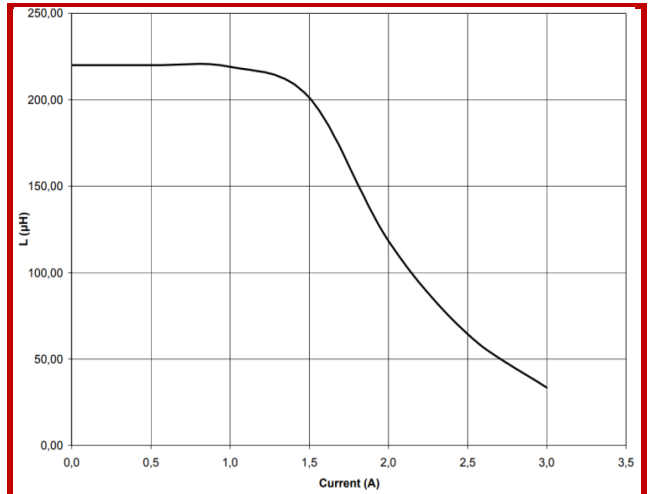
CI01-1208-101B



CI01-1208-151B



CI01-1208-221B

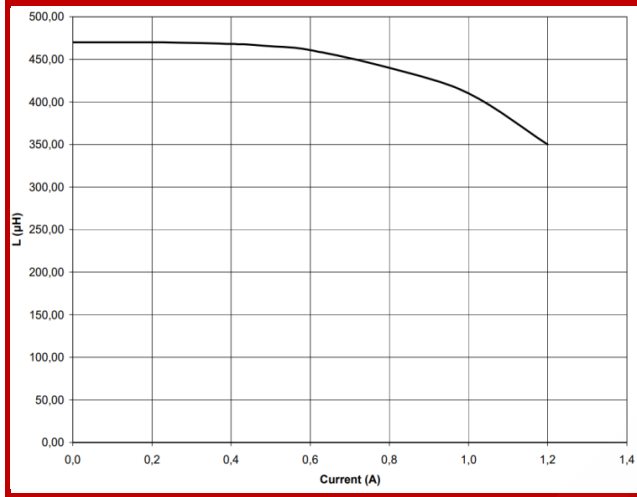




典型电感与电流特性

Typical Inductance vs. Current Characteristics

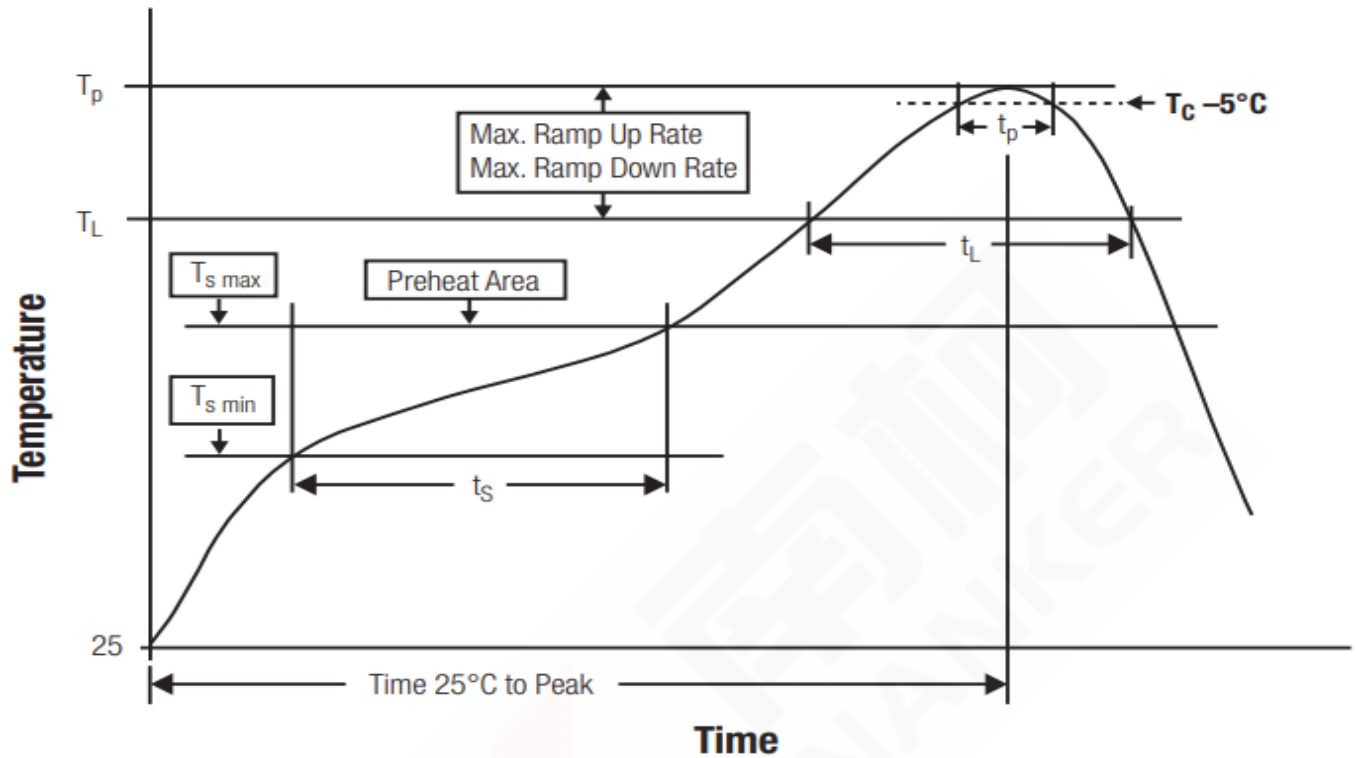
CI01-1208-471B





回流焊曲线图

Classification Reflow Profile for SMT Components



封装体峰值温度(T_p)分类

Classification Reflow Soldering Profile:

	封装厚度 Package Thickness	封装体积 Package Volume		
		<350 mm ³	350~2,000 mm ³	>2,000 mm ³
无铅装配 PB-Free Assembly	<1.60mm	260°C	260°C	260°C
	1.60~2.50mm	260°C	250°C	245°C
	>2.50mm	260°C	245°C	245°C

- ◆ 回流焊参照标准 IPC/JEDEC J-STD-020D。
Reflow is refer to standard IPC/JEDEC J-STD-020D.