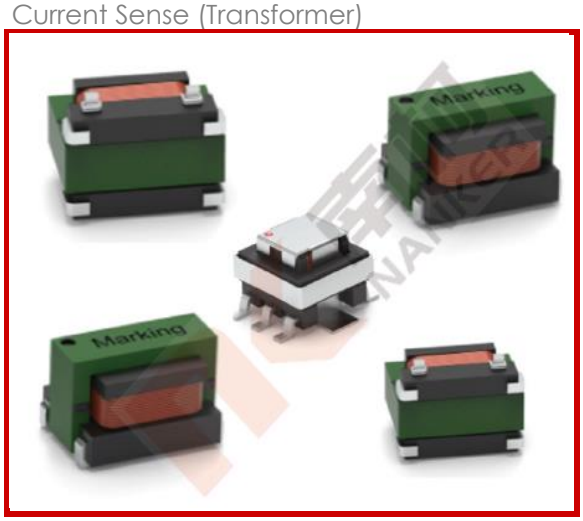
电流互感器
Current Sense (Transformer)



特性
Characteristics

结构紧凑，超薄
Compact and low profile

用于SMD组装
For SMD assembly

频率高达1 MHz
Frequency up to 1 MHz

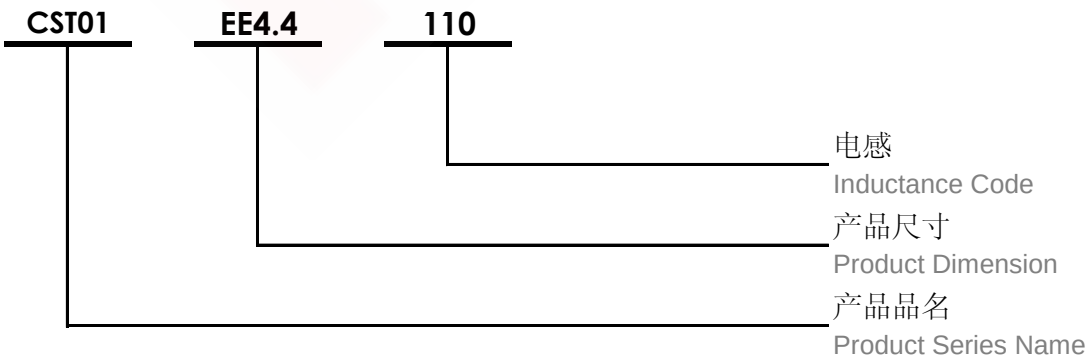
应用
Application

交流电流检测
AC current detection

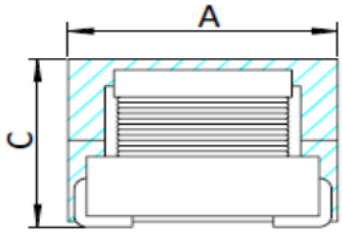
开关电源
Switch mode power supply

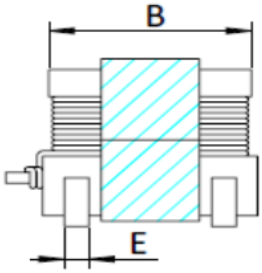
过载感应
Overload sensing

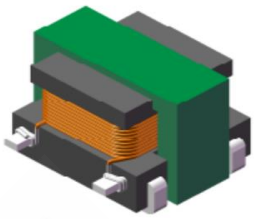
产品品名介绍
Product Number Structure



尺寸
Dimension (mm)







Dimension	A	B	C	E
mm	4.70max	3.65max	3.55max	0.40

焊盘推荐
Land Pattern Recommended (mm)

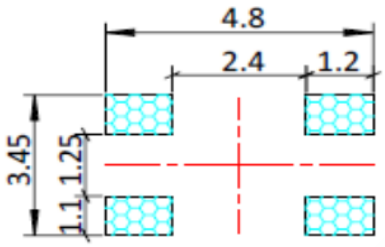


示意图
Schematics

电性特性
Electrical Properties

型号 Part No.	圈数比 Turn Ratio Sec:Pri	电感 N2 Inductance μH		温升电流 N1 Rated Current I_R typ 25°C (A)	1st 直流电阻 1st DCResistance DCRmax (mΩ)	2nd 直流电阻 2nd DCResistance DCRmax (Ω)
CST01-EE4.4-20T-1T	20:1	33	min	7.00	3.00	0.35
CST01-EE4.4-30T-1T	30:1	74	min	7.00	3.00	0.80
CST01-EE4.4-40T-1T	40:1	132	min	7.00	3.00	1.60
CST01-EE4.4-50T-1T	50:1	205	min	7.00	3.00	2.50
CST01-EE4.4-60T-1T	60:1	295	min	7.00	3.00	3.60
CST01-EE4.4-70T-1T	70:1	400	min	7.00	3.00	4.60
CST01-EE4.4-100T-1T	100:1	820	min	7.00	3.00	9.50
CST01-EE4.4-125T-1T	125:1	1,280	min	7.00	3.00	13.00
CST01-EE4.4-150T-1T	150:1	1,800	min	7.00	3.00	21.00

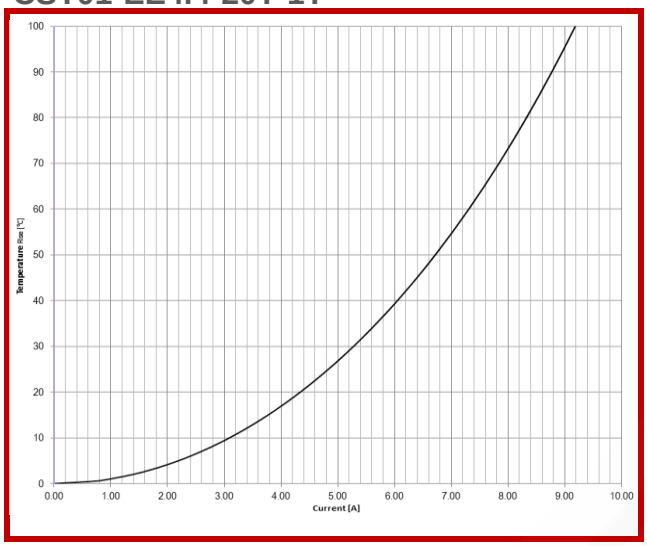
测试状态
Test Condition

☆ 电感测试条件为 N2/ 100 kHz/ 100 mV
Inductance measure condition at N2/ 100 kHz/ 100 mV

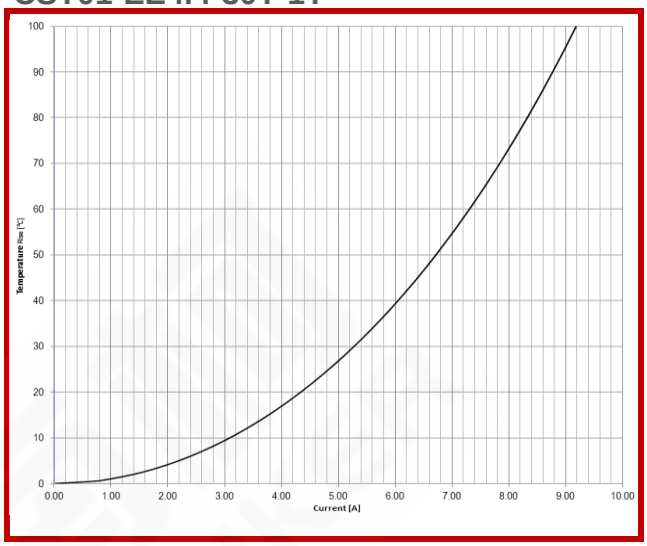
☆ 工作温度： -40°C ~ +125°C
Operating Temperature: -40°C ~ +125°C

典型温升与电流特性
Typical Temperature Rise vs. Current Characteristics

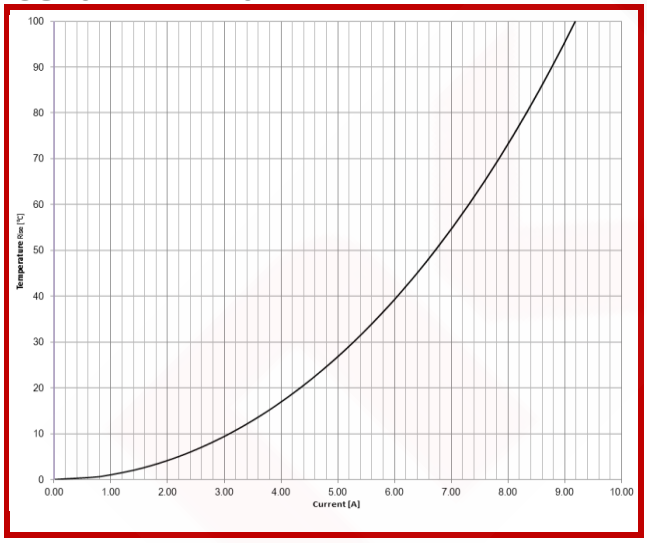
CST01-EE4.4-20T-1T



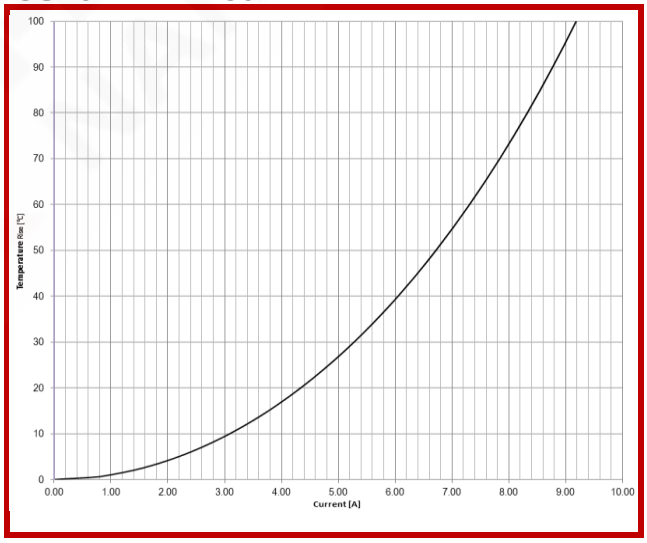
CST01-EE4.4-30T-1T



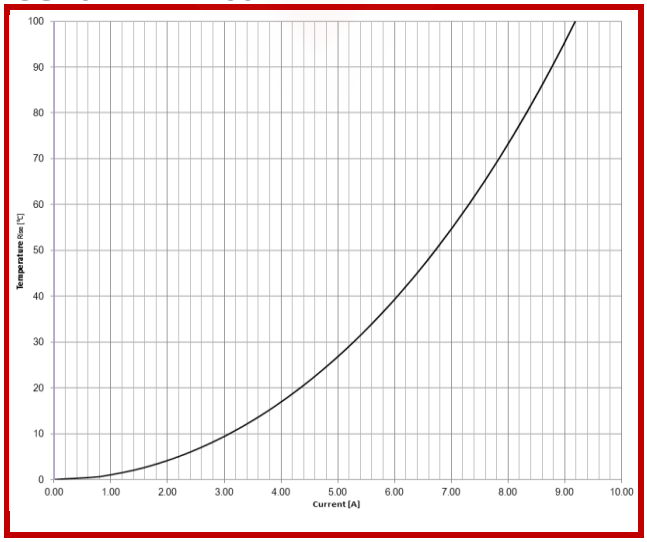
CST01-EE4.4-40T-1T



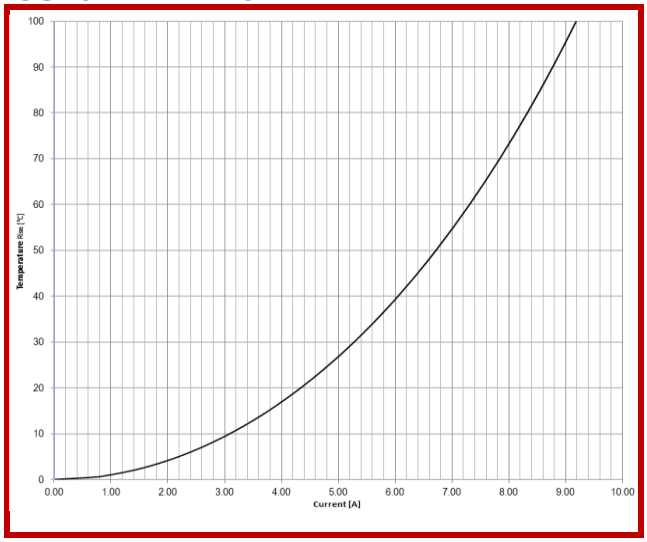
CST01-EE4.4-50T-1T



CST01-EE4.4-60T-1T

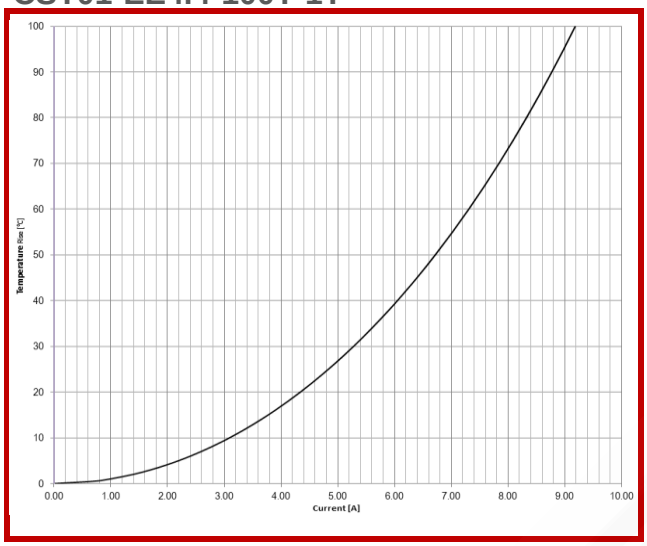


CST01-EE4.4-70T-1T

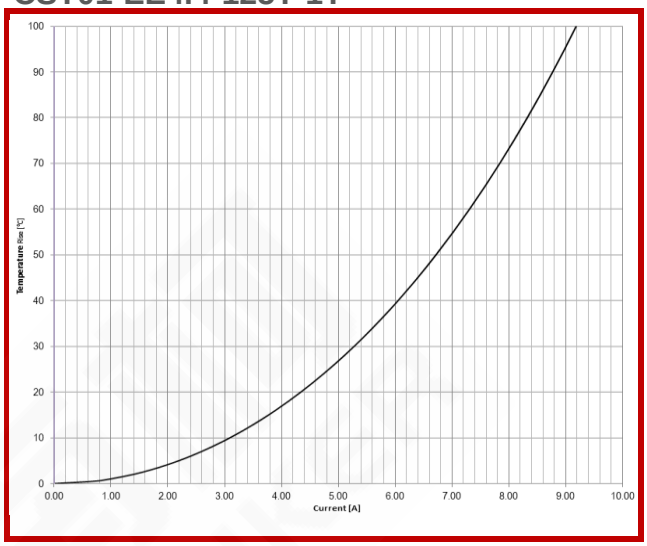


典型温升与电流特性
Typical Temperature Rise vs. Current Characteristics

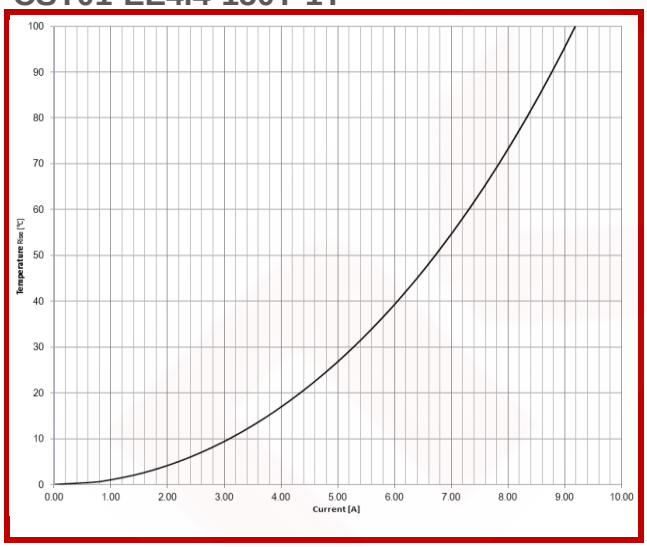
CST01-EE4.4-100T-1T



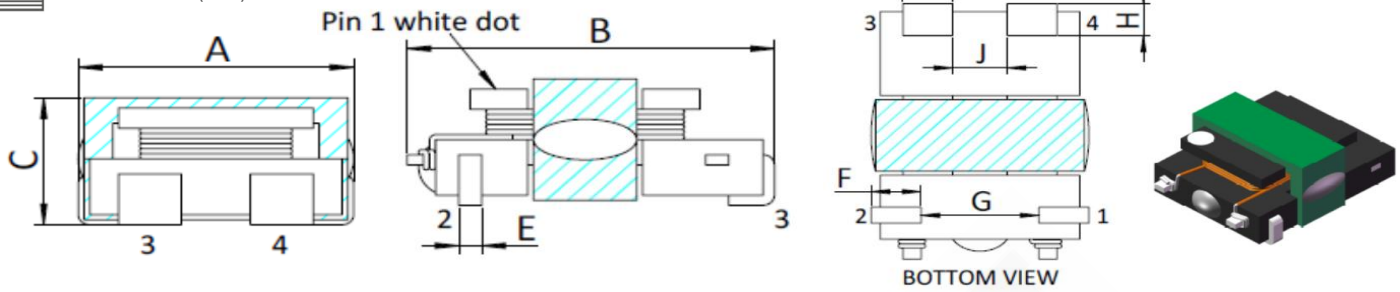
CST01-EE4.4-125T-1T



CST01-EE4.4-150T-1T



尺寸
Dimension (mm)



Dimension	A	B	C	E	F	G	H	I	J
mm	5.20max	7.20max	2.80max	0.40	1.20	2.60	1.20	1.10	1.20

焊盘推荐
Land Pattern Recommended (mm)

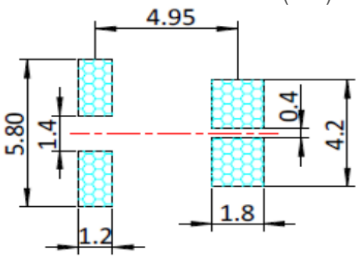


示意图
Schematics

电性特性
Electrical Properties

型号 Part No.	圈数比 Turn Ratio Sec:Pri	电感 N2 Inductance mH	温升电流 N1 Rated Current I_R typ 25°C (A)	1st 直流电阻 1st DCResistance DCRmax (mΩ)	2nd 直流电阻 2nd DCResistance DCRmax (Ω)
CST01-EE4.6-20T-1T	20:1	0.053 min	9.00	1.50	0.42
CST01-EE4.6-50T-1T	50:1	0.333 min	9.00	1.50	2.76
CST01-EE4.6-70T-1T	70:1	0.652 min	9.00	1.50	5.04
CST01-EE4.6-100T-1T	100:1	1.330 min	9.00	1.50	10.68
CST01-EE4.6-150T-1T	150:1	2.993 min	9.00	1.50	22.30

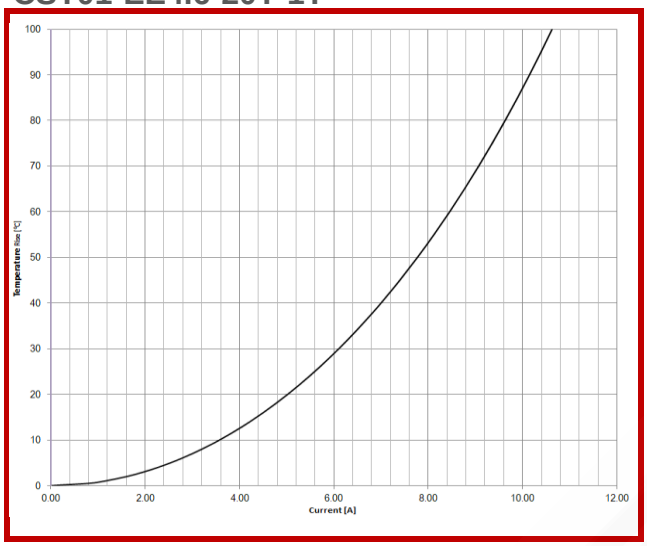
测试状态
Test Condition

☆ 电感测试条件为 N2/ 100 kHz/ 100 mV
Inductance measure condition at N2/ 100 kHz/ 100 mV

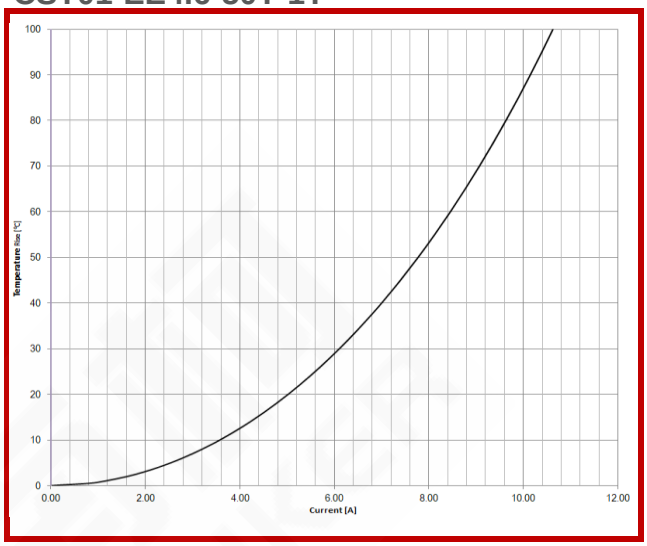
☆ 工作温度：-40°C ~ +125°C
Operating Temperature: -40°C ~ +125°C

典型温升与电流特性
Typical Temperature Rise vs. Current Characteristics

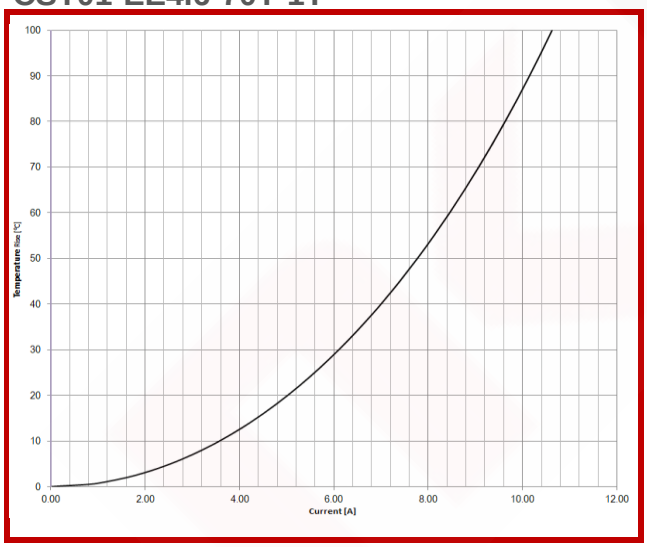
CST01-EE4.6-20T-1T



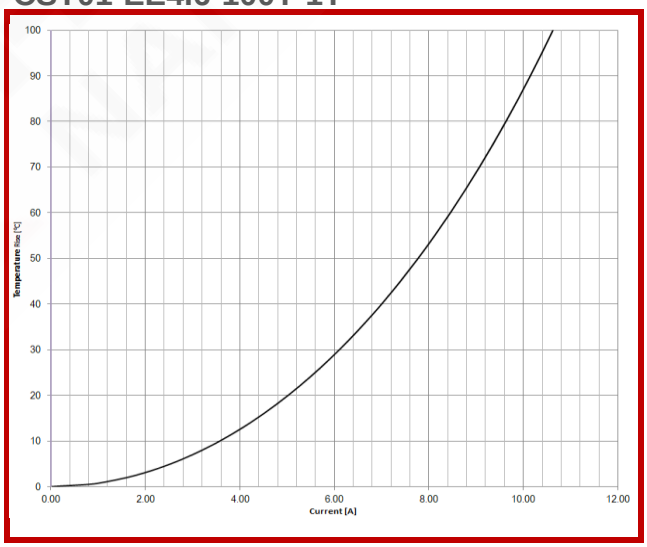
CST01-EE4.6-50T-1T



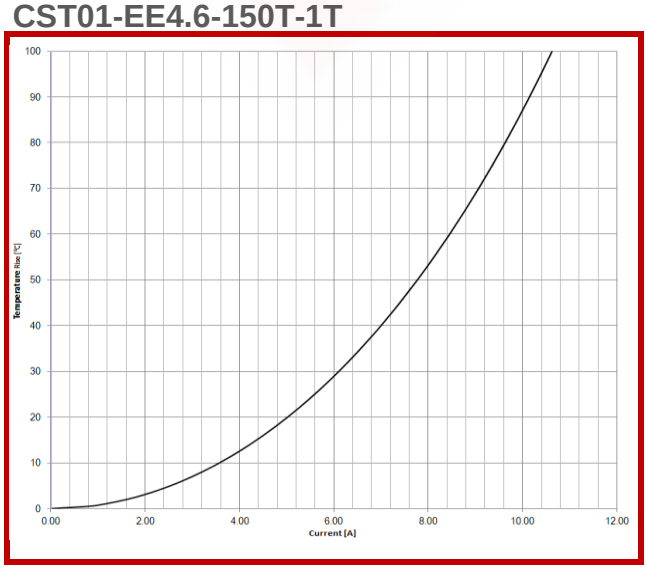
CST01-EE4.6-70T-1T



CST01-EE4.6-100T-1T



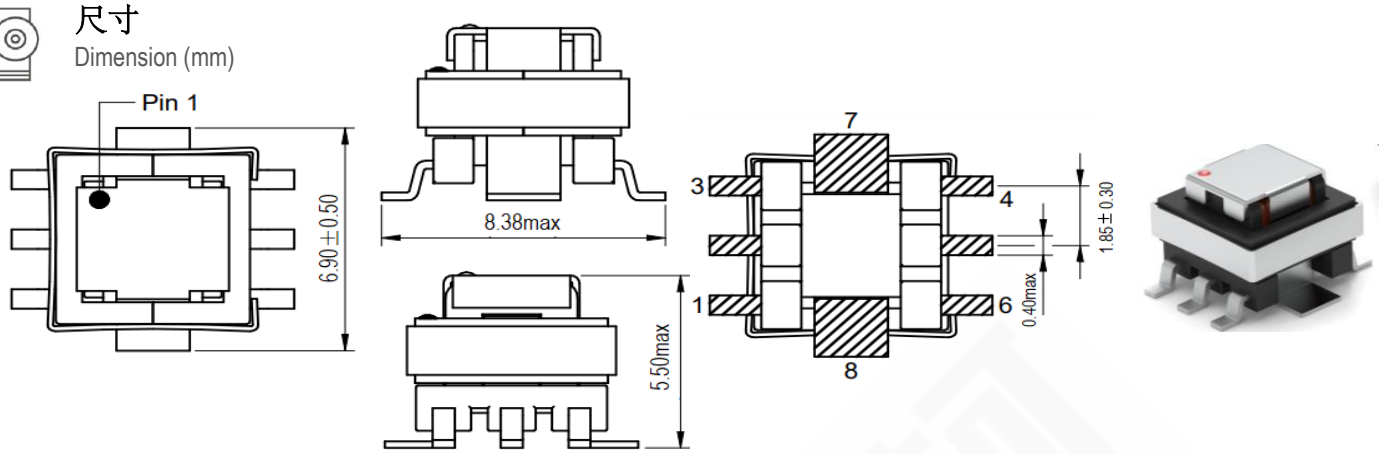
CST01-EE4.6-150T-1T



CST01 SERIES

Current Sense (Transformer)

尺寸
Dimension (mm)



焊盘推荐
Land Pattern Recommended (mm)

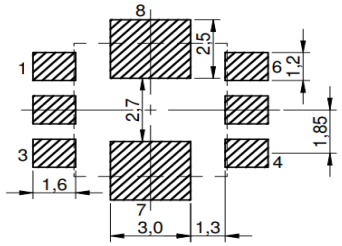
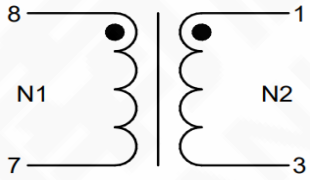


示意图
Schematics



电性特性
Electrical Properties

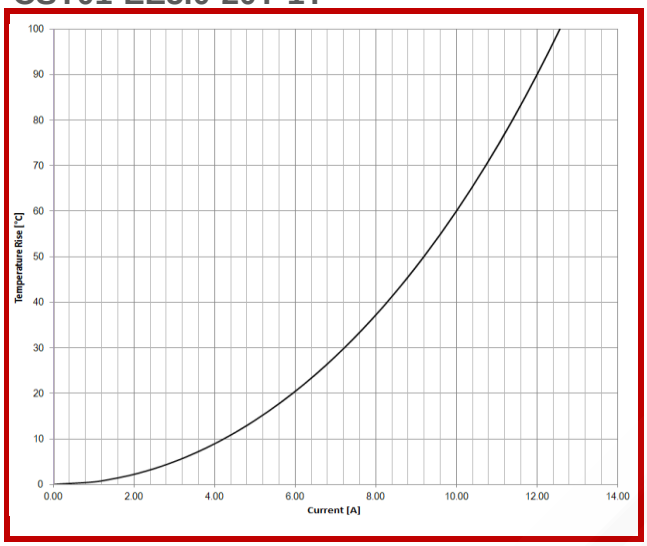
型号 Part No.	圈数比 Turn Ratio Sec:Pri	电感 N2 Inductance μH		温升电流 N1 Rated Current I_R typ 25°C (A)	1st 直流电阻 1st DCResistance DCRmax (mΩ)	2nd 直流电阻 2nd DCResistance DCRmax (Ω)
CST01-EE5.0-20T-1T	20:1	80	min	10.00	0.70	0.40
CST01-EE5.0-30T-1T	30:1	180	min	10.00	0.70	0.87
CST01-EE5.0-40T-1T	40:1	320	min	10.00	0.70	1.14
CST01-EE5.0-50T-1T	50:1	500	min	10.00	0.70	1.85
CST01-EE5.0-60T-1T	60:1	730	min	10.00	0.70	2.30
CST01-EE5.0-70T-1T	70:1	980	min	10.00	0.70	4.75
CST01-EE5.0-100T-1T	100:1	2,000	min	10.00	0.70	5.50
CST01-EE5.0-125T-1T	125:1	3,000	min	10.00	0.70	11.50

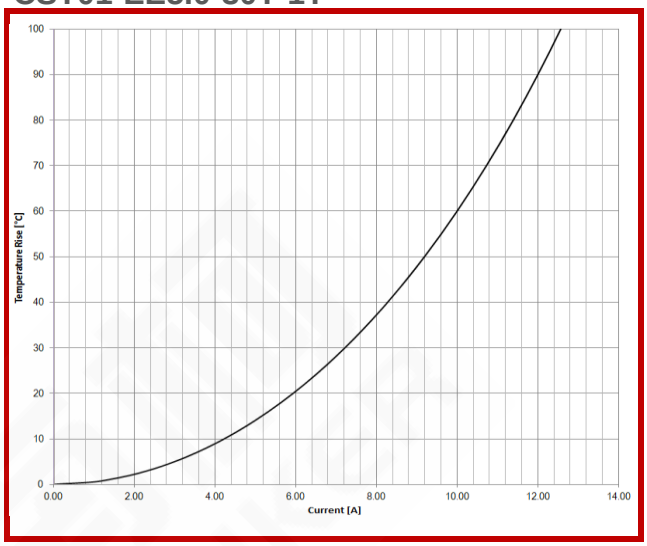
测试状态
Test Condition

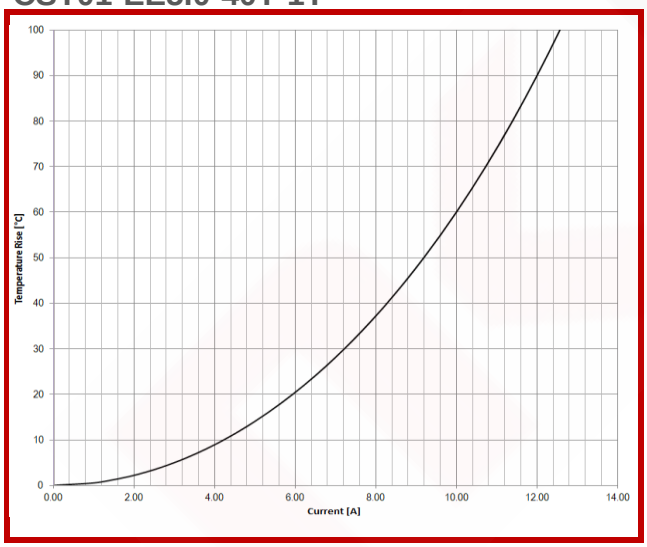
☆ 电感测试条件为 N2/ 10 kHz/ 100 mV
Inductance measure condition at N2/ 10 kHz/ 100 mV

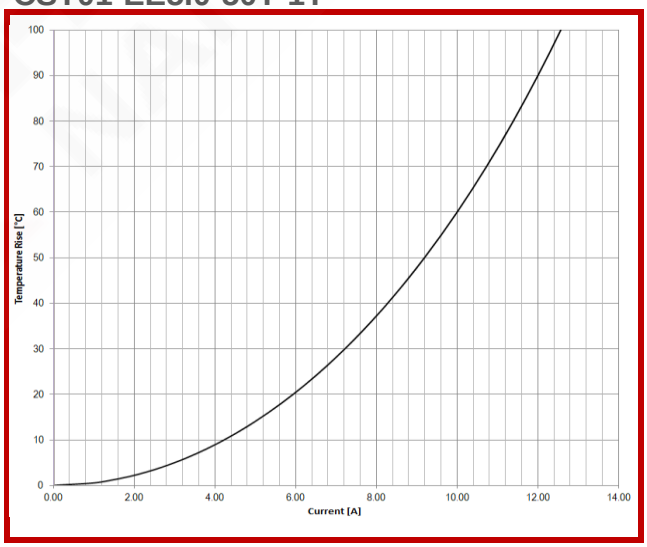
☆ 工作温度：-40°C ~ +125°C
Operating Temperature: -40°C ~ +125°C

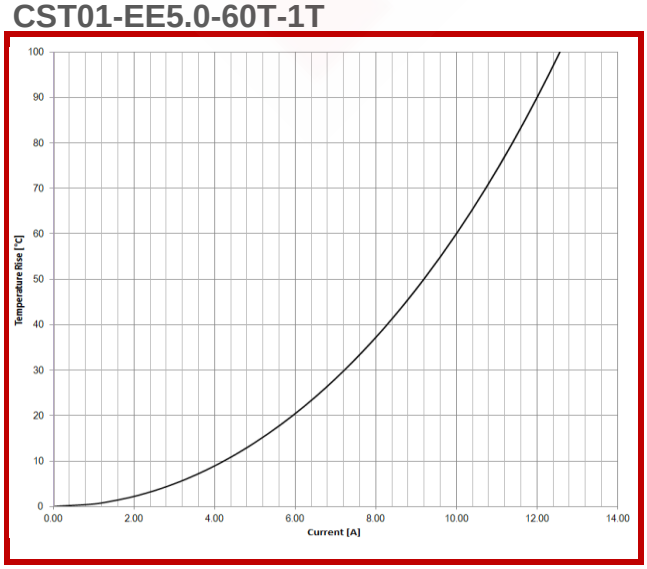
典型温升与电流特性
Typical Temperature Rise vs. Current Characteristics

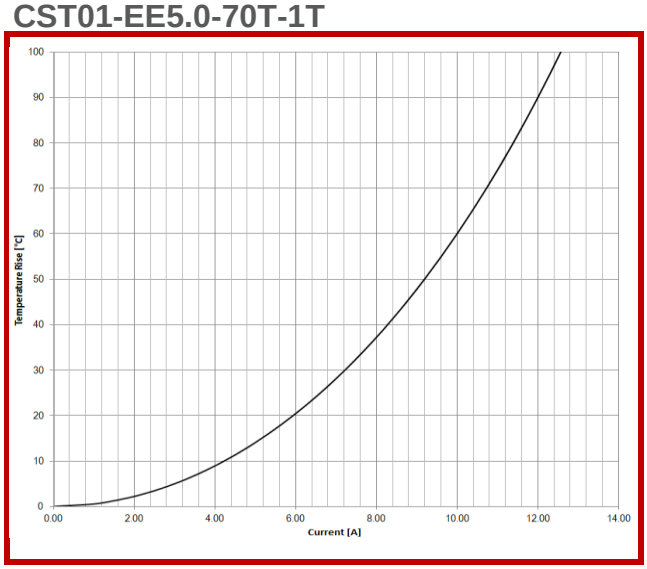
CST01-EE5.0-20T-1T


CST01-EE5.0-30T-1T


CST01-EE5.0-40T-1T


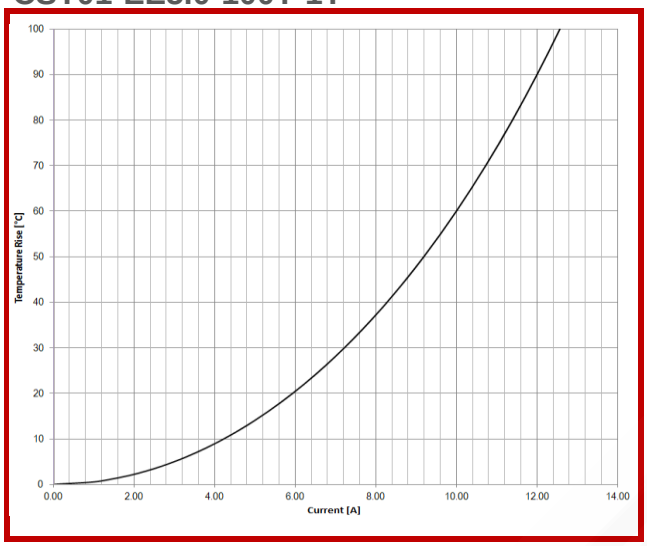
CST01-EE5.0-50T-1T


CST01-EE5.0-60T-1T


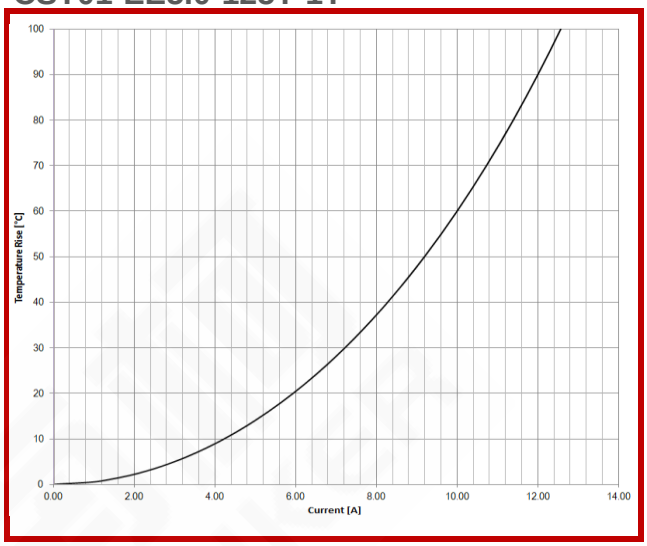
CST01-EE5.0-70T-1T


典型温升与电流特性
Typical Temperature Rise vs. Current Characteristics

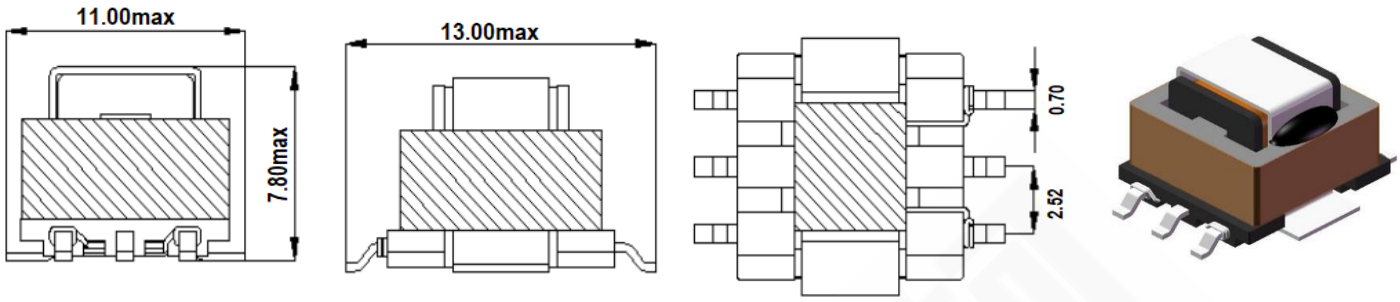
CST01-EE5.0-100T-1T



CST01-EE5.0-125T-1T



尺寸
Dimension (mm)



焊盘推荐
Land Pattern Recommended (mm)

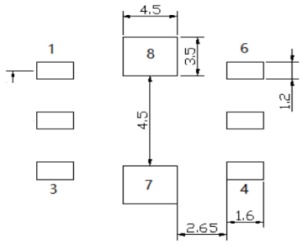
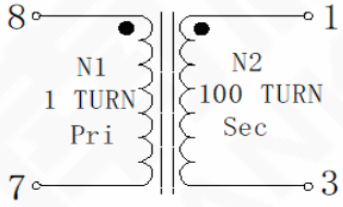


示意图
Schematics



电性特性
Electrical Properties

型号 Part No.	圈数比 Turn Ratio Sec:Pri	电感 N2 Inductance mH	温升电流 N1 Rated Current I_R typ 25°C (A)	1st 直流电阻 1st DCResistance DCRmax (mΩ)	2nd 直流电阻 2nd DCResistance DCRmax (Ω)
CST01-EE8.3-20T-1T	20:1	0.22 min	15.00	3.90	0.21
CST01-EE8.3-30T-1T	30:1	0.50 min	15.00	3.90	0.32
CST01-EE8.3-40T-1T	40:1	0.88 min	15.00	3.90	0.50
CST01-EE8.3-50T-1T	50:1	1.40 min	15.00	3.90	0.65
CST01-EE8.3-60T-1T	60:1	2.00 min	15.00	3.90	0.81
CST01-EE8.3-70T-1T	70:1	2.70 min	15.00	3.90	1.00
CST01-EE8.3-80T-1T	80:1	3.50 min	15.00	3.90	1.30
CST01-EE8.3-100T-1T	100:1	5.60 min	15.00	3.90	2.00
CST01-EE8.3-125T-1T	125:1	8.70 min	15.00	3.90	5.20
CST01-EE8.3-150T-1T	150:1	12.60 min	15.00	3.90	6.50
CST01-EE8.3-200T-1T	200:1	22.00 min	15.00	3.90	8.00

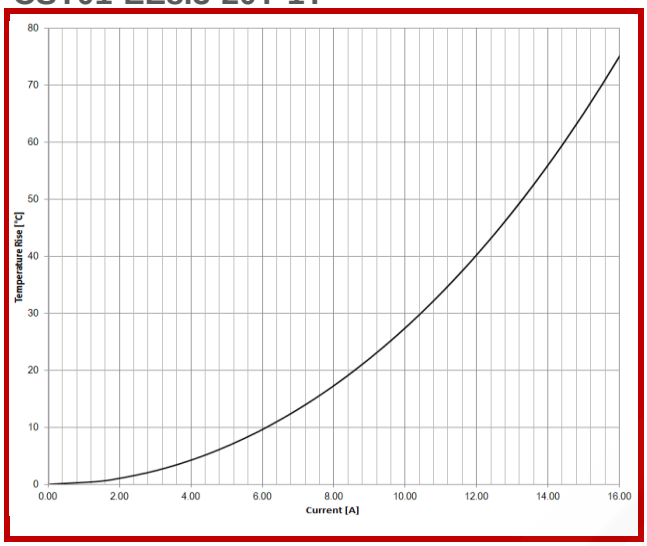
测试状态
Test Condition

☆ 电感测试条件为 N2/ 100 kHz/ 100 mV
Inductance measure condition at N2/ 100 kHz/ 100 mV

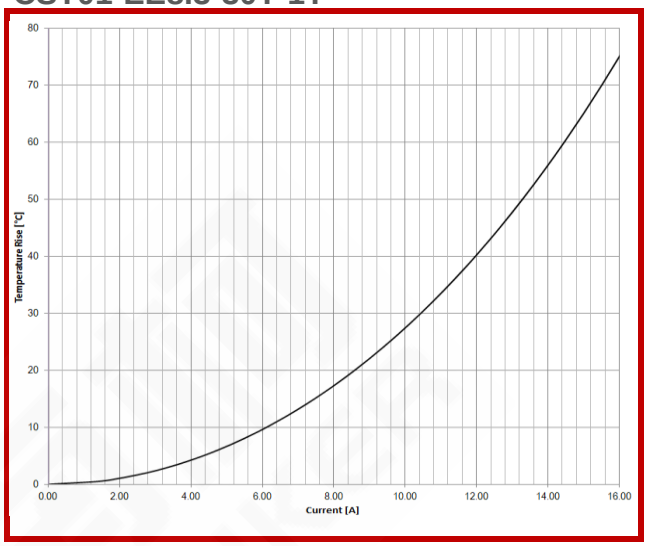
☆ 工作温度：-40°C ~ +125°C
Operating Temperature: -40°C ~ +125°C

典型温升与电流特性
Typical Temperature Rise vs. Current Characteristics

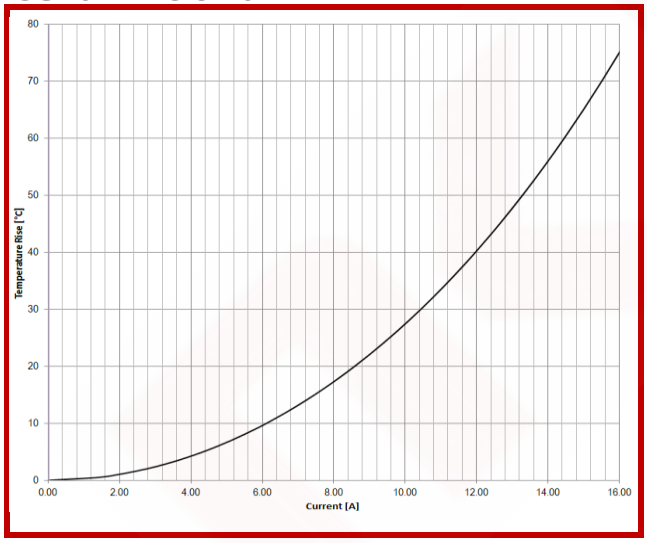
CST01-EE8.3-20T-1T



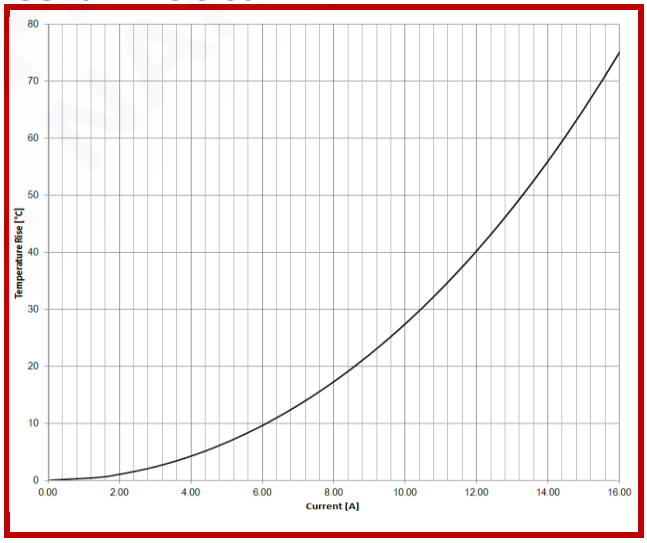
CST01-EE8.3-30T-1T



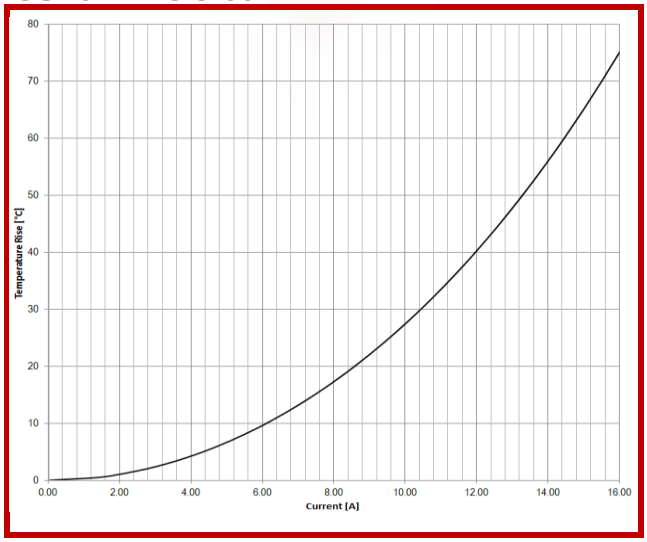
CST01-EE8.3-40T-1T



CST01-EE8.3-50T-1T



CST01-EE8.3-60T-1T



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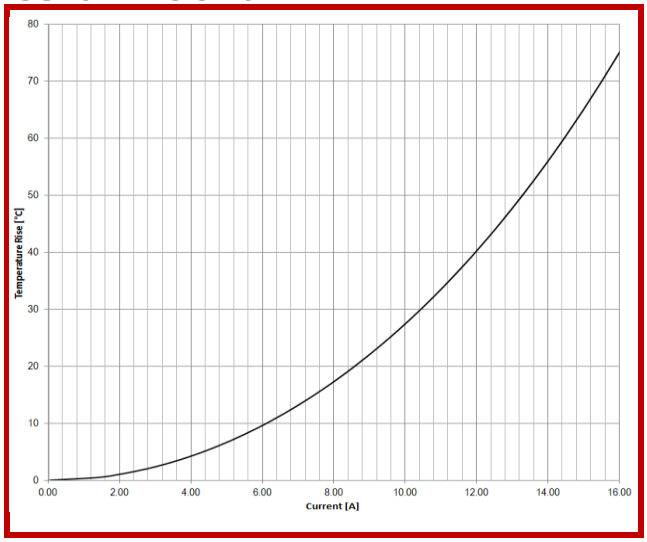
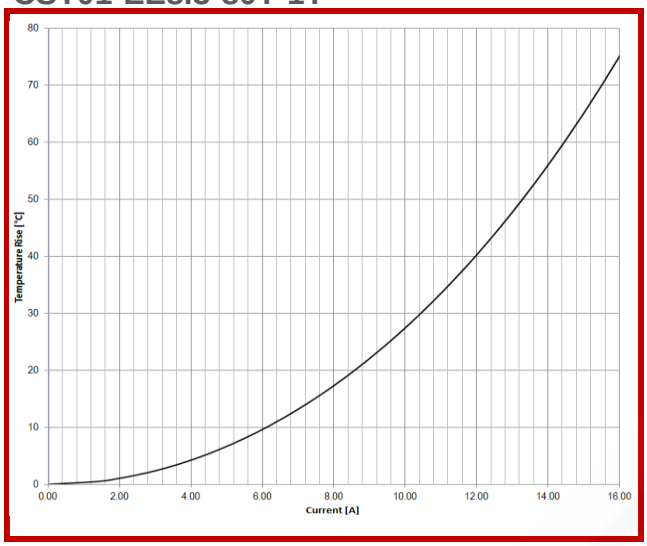
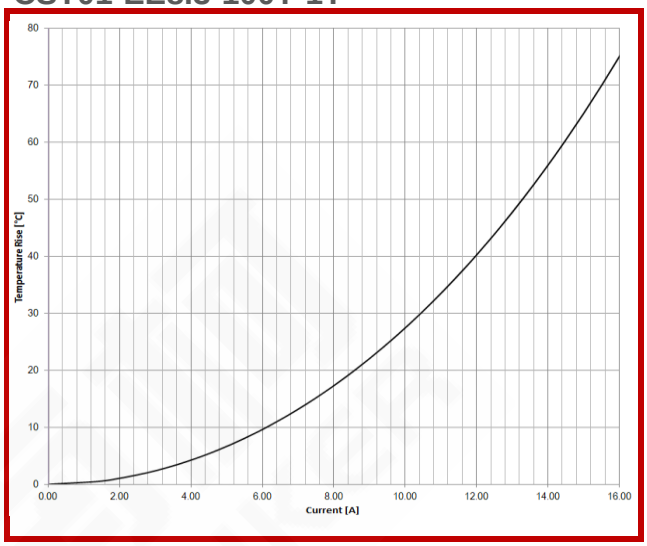


典型温升与电流特性
Typical Temperature Rise vs. Current Characteristics

CST01-EE8.3-80T-1T



CST01-EE8.3-100T-1T



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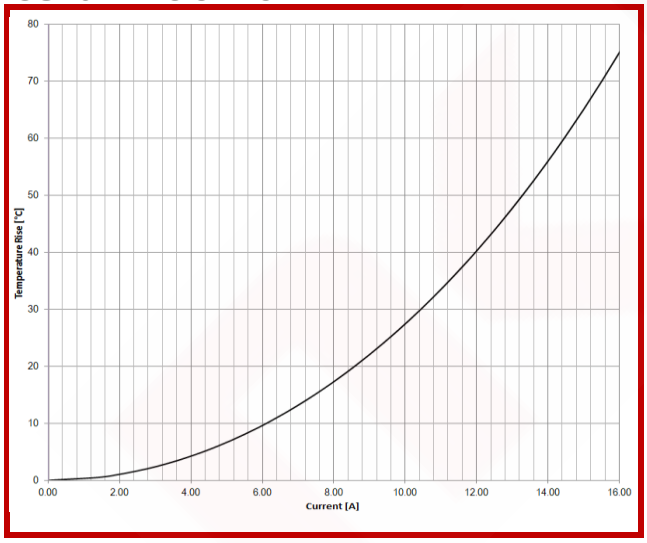

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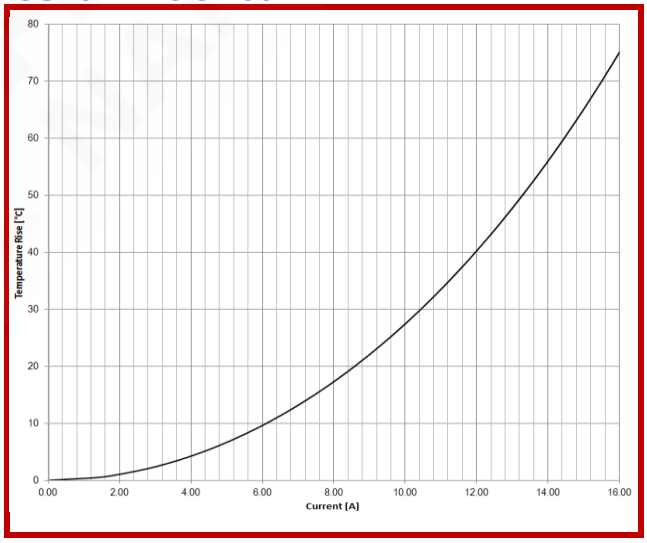
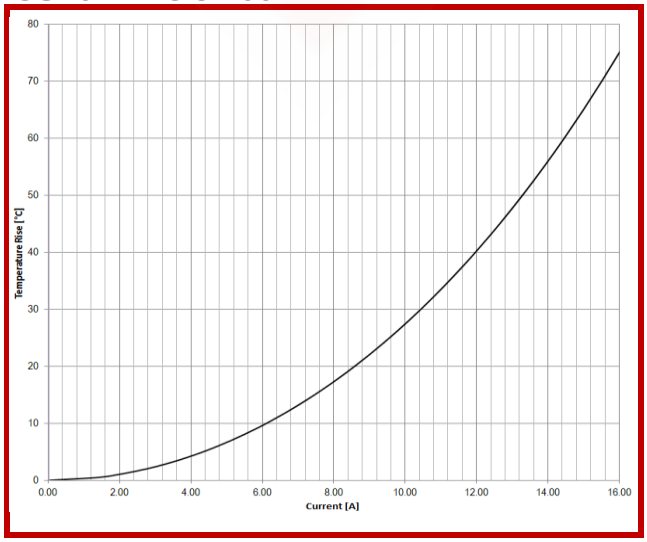
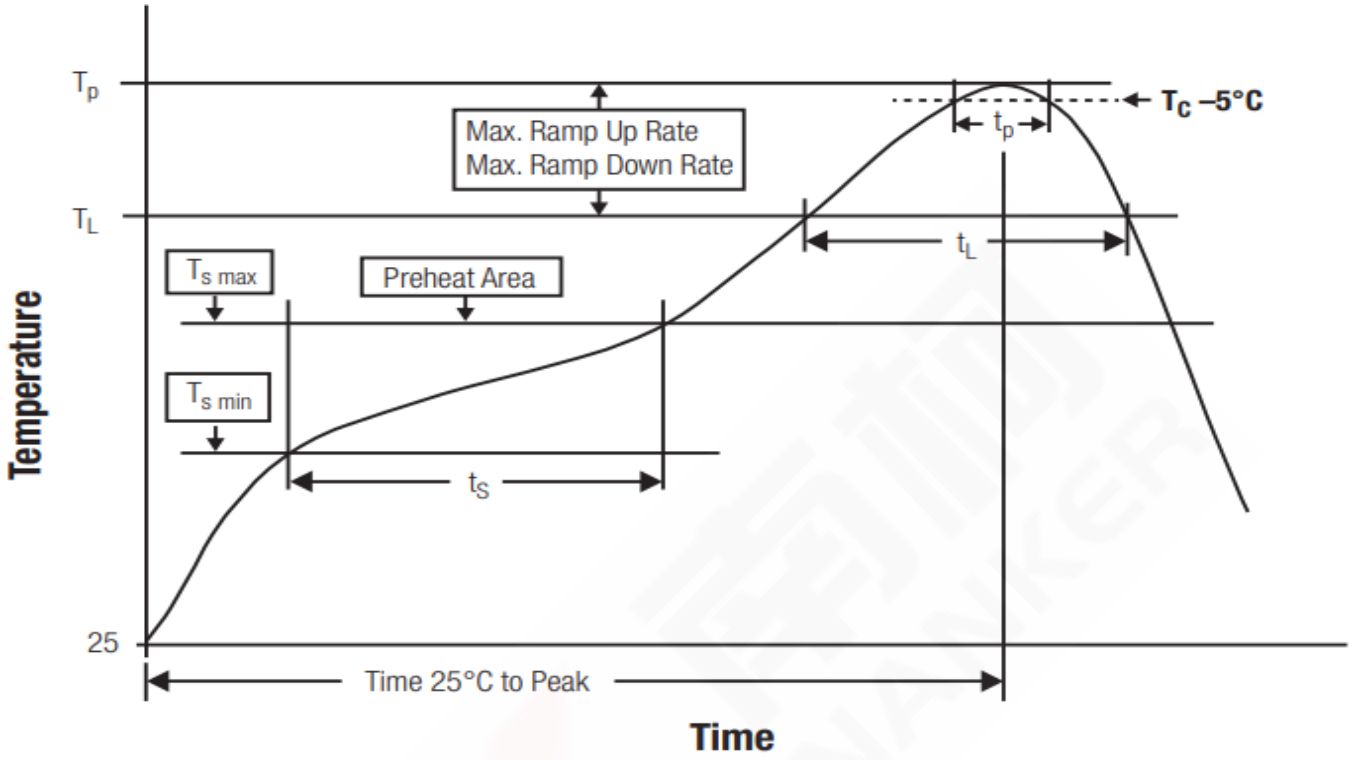


CST01-EE8.3-200T-1T



回流焊曲线图
Classification Reflow Profile for SMT Components



封装体峰值温度(Tp)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.