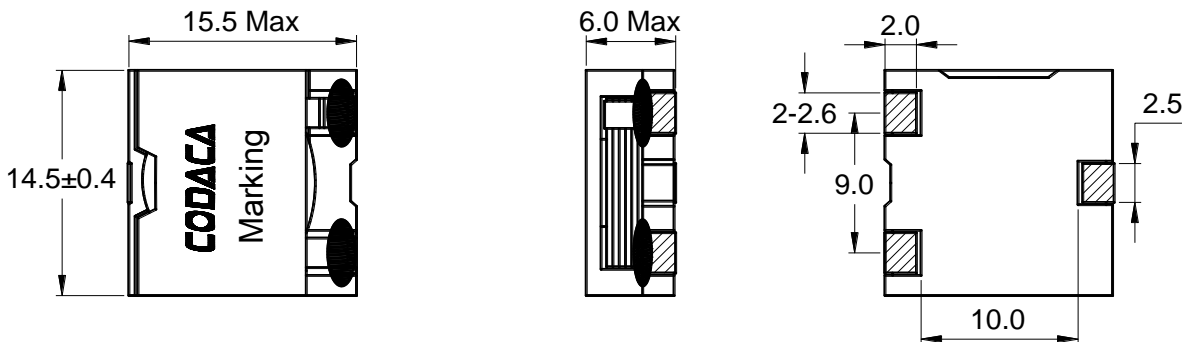


### Outline: 产品概要

- Magnetic shielding structure, excellent resistance to electro magnetic interference.  
磁屏蔽结构，抗电磁干扰(EMI)性能强。
- Assemblage design, sturdy structure.  
组立式设计，结构坚固。
- Small volume, high current, low magnetic loss, low ESR, small parasitic capacitance.  
小体积，大电流，低磁损，低阻抗，寄生电容小。
- Temperature rise current and saturation current is less influenced by environment.  
温升电流及饱和电流受环境条件影响小。
- Operating temperature :  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$   
(Including coil's temperature rise)  
工作温度:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$  (包含线圈发热)

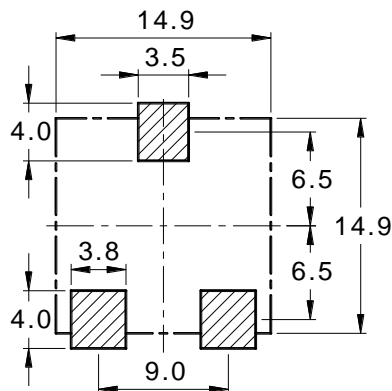
### 1 Appearance and dimensions (mm) 外形尺寸



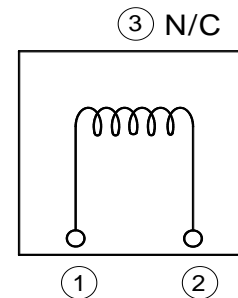
### 2 Marking 印字标识



### 3 Reference land pattern (mm) 参考基板尺寸



### 4 Schematic 原理图



## 5 Electrical characteristics

### 电气特性

Part No. 型号	Inductance (μH) 电感值 ※1 ±20%	D.C.R. (mΩ) 直流电阻		Saturation current (A) 饱和电流 ※2 Typical	Temperature rise current (A) 温升电流 ※3 Typical
		Typical	Max		
CSCM1460-R50M	0.50	1.48	1.70	40.0	23.0
CSCM1460-R60M	0.60	1.48	1.70	40.0	23.0
CSCM1460-1R2M	1.20	2.70	3.00	37.3	19.5
CSCM1460-1R5M	1.50	2.70	3.00	29.8	19.5
CSCM1460-2R2M	2.20	4.35	4.80	26.0	15.0
CSCM1460-2R7M	2.70	4.35	4.80	22.0	15.0
CSCM1460-3R5M	3.50	5.67	6.24	21.7	12.0
CSCM1460-4R2M	4.20	5.67	6.24	18.5	12.0
CSCM1460-5R0M	5.00	8.42	9.26	18.2	9.50
CSCM1460-6R1M	6.10	8.42	9.26	15.5	9.50

■ All data is tested based on 25°C ambient temperature.

所有数据基于环境温度 25°C条件下测试。

※1 Inductance measure condition at 100kHz, 0.1V.

电感测试条件为 100kHz, 0.1V。

※2 Saturation current: the actual value of DC current when the inductance decrease 20% of its initial value.

饱和电流: 电感值下降其初始值的 20%时所加载的实际直流电流值。

※3 Temperature rise current: the actual value of DC current when the temperature rise is  $\Delta T40^{\circ}\text{C}$  ( $T_a=25^{\circ}\text{C}$ ).

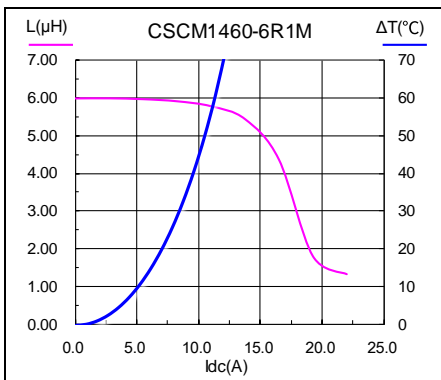
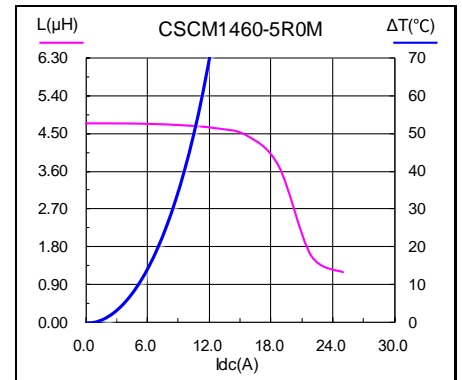
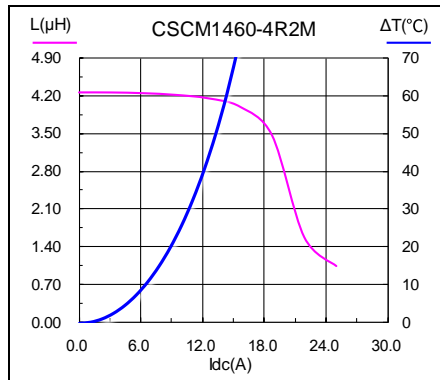
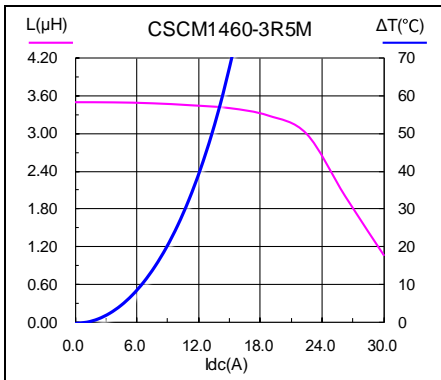
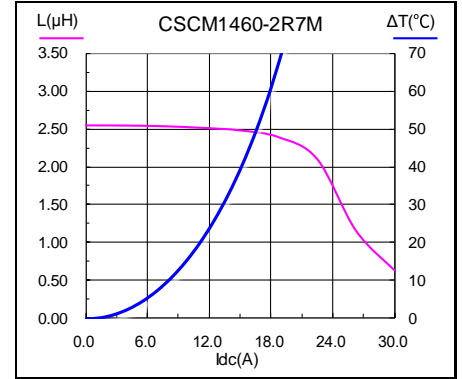
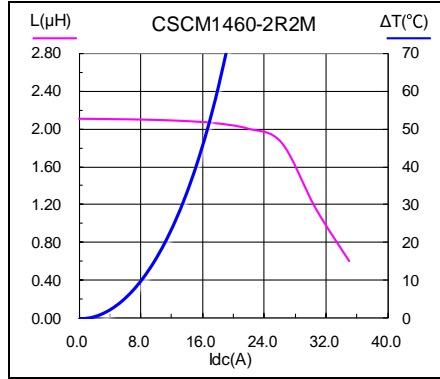
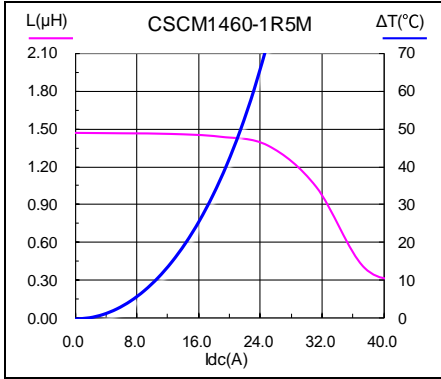
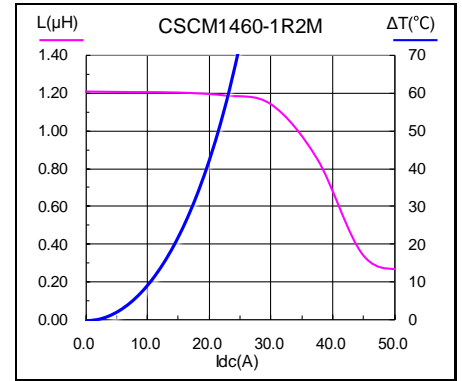
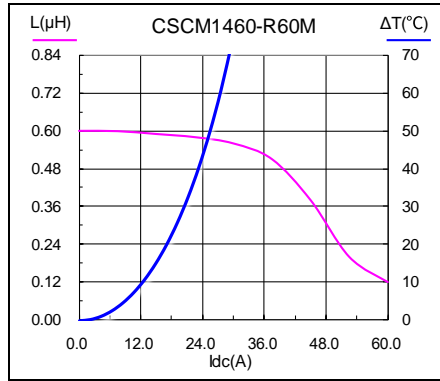
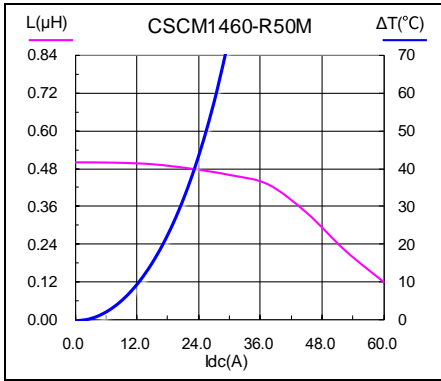
温升电流: 使产品温度上升到  $\Delta T40^{\circ}\text{C}$ 时所加载的实际直流电流值( $T_a=25^{\circ}\text{C}$ )。

※ Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

特别提醒: 线路设计, 组件布局, 印刷线路板(PWB)尺寸及厚度, 散热系统等均会影响产品温度。

请务必在最终应用时, 验证产品发热状况。

## 6 Saturation current VS temperature rise current curve 饱和电流 VS 温升电流曲线

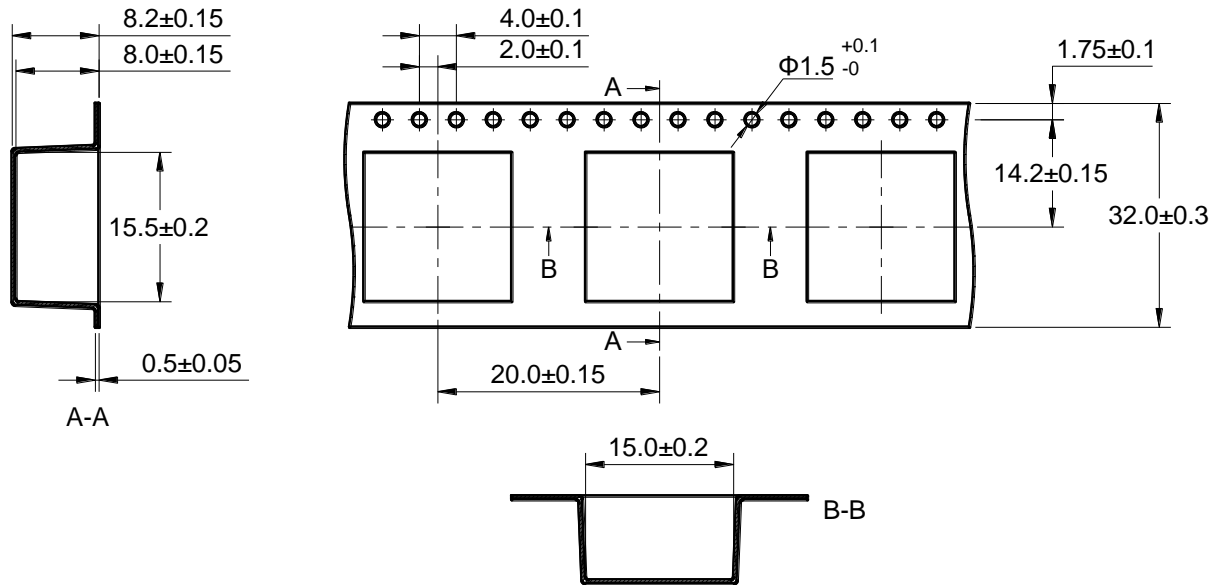


## 7 Packing specification

### 包装规格

#### 7.1 Carrier tape dimensions (mm)

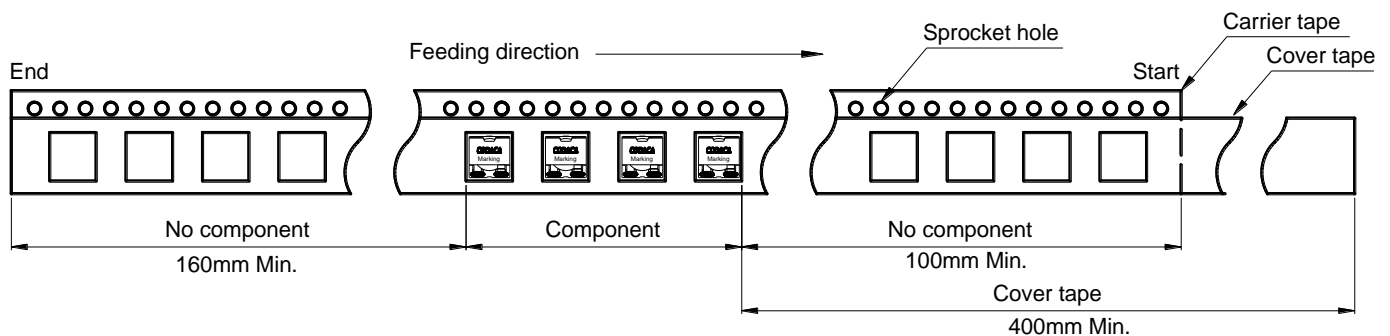
##### 载带尺寸



※ Packing is referred to the international standard IEC 60286-3.  
包装参照国际标准 IEC 60286-3。

#### 7.2 Tape direction

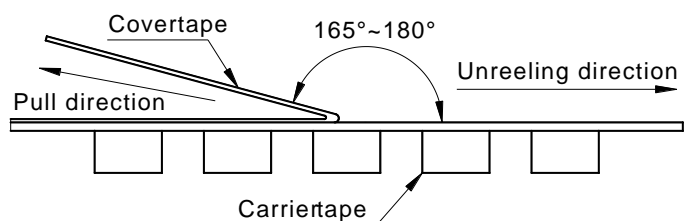
##### 捆包方向



#### 7.3 Cover tape peel off condition

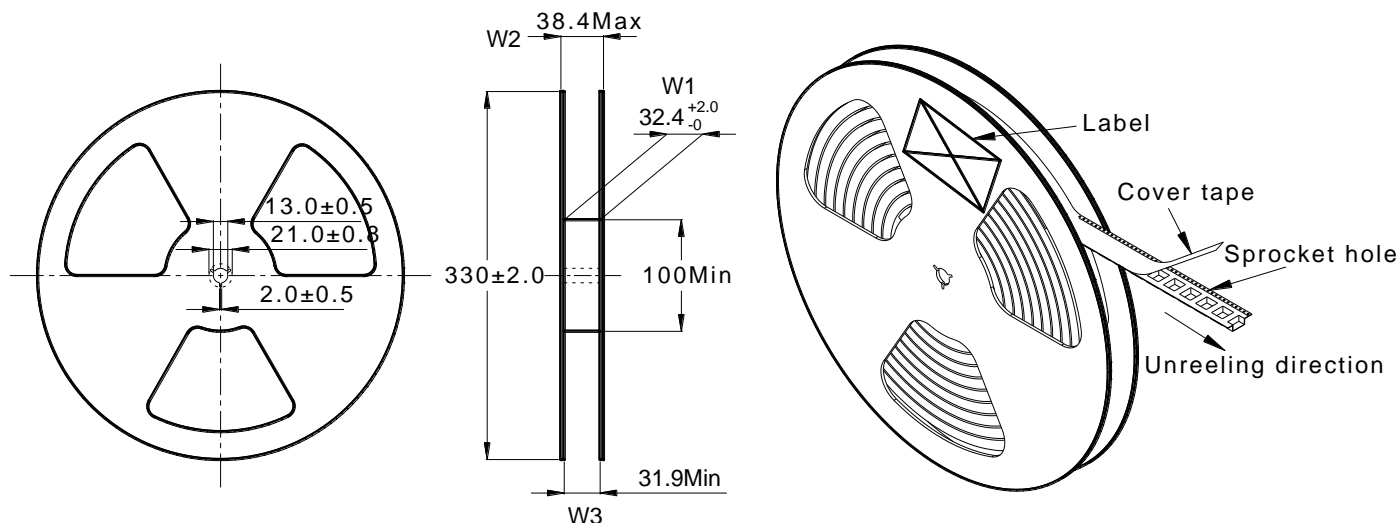
##### 盖带剥离条件

- Cover tape peel force shall be 0.1 to 1.3N.  
盖带剥离力度为 0.1~1.3N。
- Reference peel speed 300±10mm/min.  
参考剥离速度 300±10mm/分钟。



## 7.4 Reel dimensions (mm)

卷盘尺寸



## 7.5 Carton dimensions and packing quantity

包装箱尺寸和包装数量

■ Inner Carton: 340×340×95mm  
内包装盒

■ Out Carton : 355×355×385mm  
外包装箱

Product Series 产品系列	Quantity / Reel 数量 / 卷	Inner Carton Quantity 内盒 包装数量	Out Carton Quantity 外箱 包装总数量
CSCM1460	300pcs	(300×2) = 600pcs	(600×3) = 1800pcs

## 7.6 Label making

标签标识

The following items will be marked on the reel of product label and shipping label.  
以下项目将明确标识于产品卷盘标签以及运输标签上。

### Production Label 产品标签

- Part No.  
产品型号
- Electrical Information  
产品电性信息
- Quantity  
数量
- Packing No.  
包装流水号

### Shipping Label 运输标签

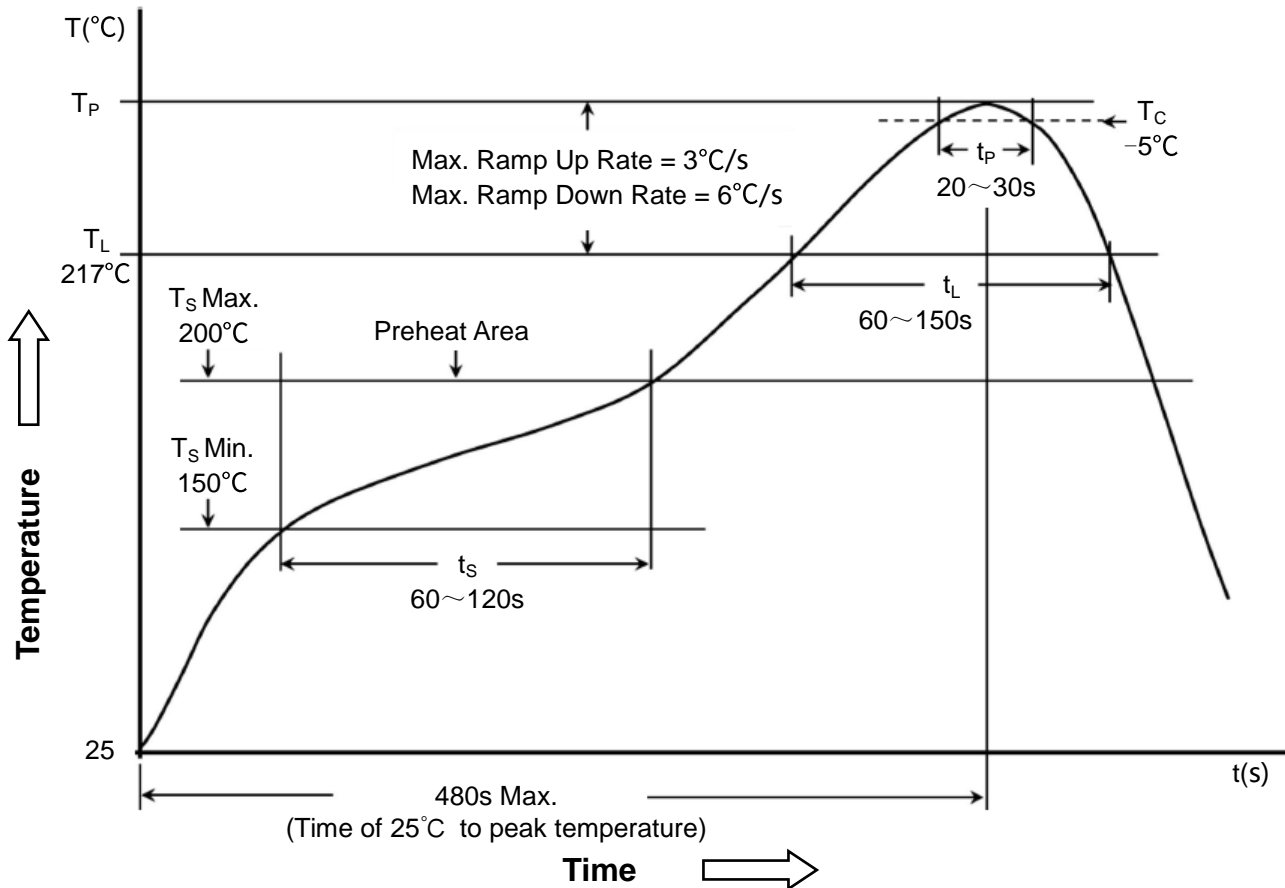
- Customer Name  
客户名称
- Customer Part No.  
客户型号
- Supplier Part No.  
供应商型号
- Supplier Name  
供应商名称
- Country of origin  
产品产地

## 8 Soldering specification

### 焊接规格

#### 8.1 Reflow profile for SMT components

SMT 回流焊温度曲线



#### 8.2 Classification of peak package body temperature (T<sub>P</sub>)

封装体峰值温度(T<sub>P</sub>)分类

	Package Thickness 封装厚度	Package Volume 封装体积		
		<350 mm <sup>3</sup>	350~2000 mm <sup>3</sup>	>2000 mm <sup>3</sup>
PB-Free Assembly 无铅装配	<1.6mm	260°C	260°C	260°C
	1.6~2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

※ Reflow is referred to standard IPC/JEDEC J-STD-020D.  
回流焊参照标准 IPC/JEDEC J-STD-020D.