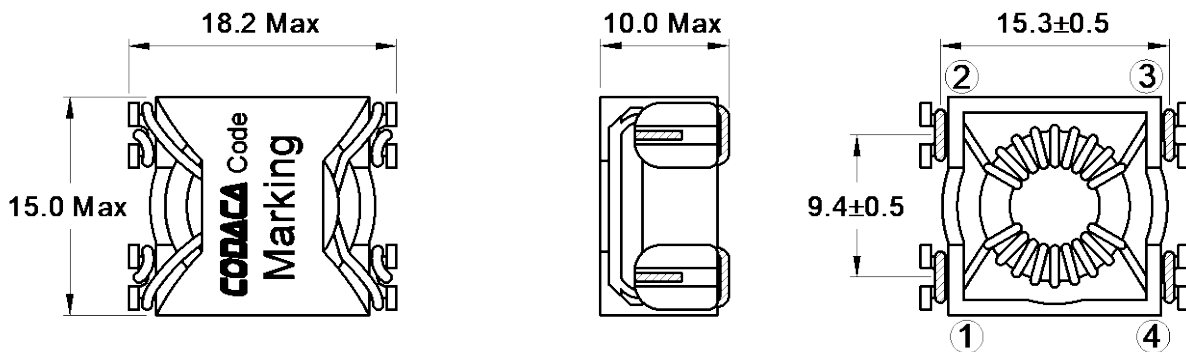




### Outline: 产品概要

- Excellent impedance characteristics, making it great for suppressing common mode noise.  
高阻抗特性，能高效抑制共模噪音效果。
- Measures against common mode noise in power lines for various DC power lines, multimedia devices, and various electronic devices, including automotive power trains.  
各种电子产品、多媒体设备，包括车载动力传递的 DC 电源线的共模噪音抑制。
- Operating temperature : -40°C ~ +125°C (Including coil's temperature rise)  
工作温度：-40°C~+125°C (包含线圈发热)

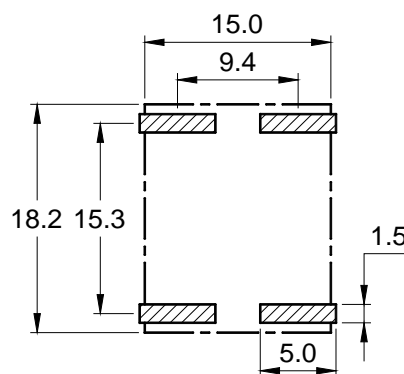
### 1 Appearance and Dimensions (mm) 外形尺寸 (mm)



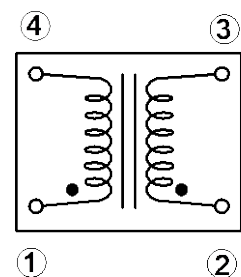
### 2 Marking 印字标识



### 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 ( $\mu\text{H}$ ) 电感值※1 $\pm 30\%$	D.C.R. ( $\text{m}\Omega$ ) 直流电阻 Max	Leakage Inductance ( $\mu\text{H}$ ) 漏感※2 Typical	Rated Current (A) 额定电流※3 Max	Rated Voltage (Vac) 额定电压 Max	Hi-Pot (Vac) 耐压测试 2mA 60S
CSTR1815-401N	400	9.50	1.25	6.20	250	1,500

■ 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。

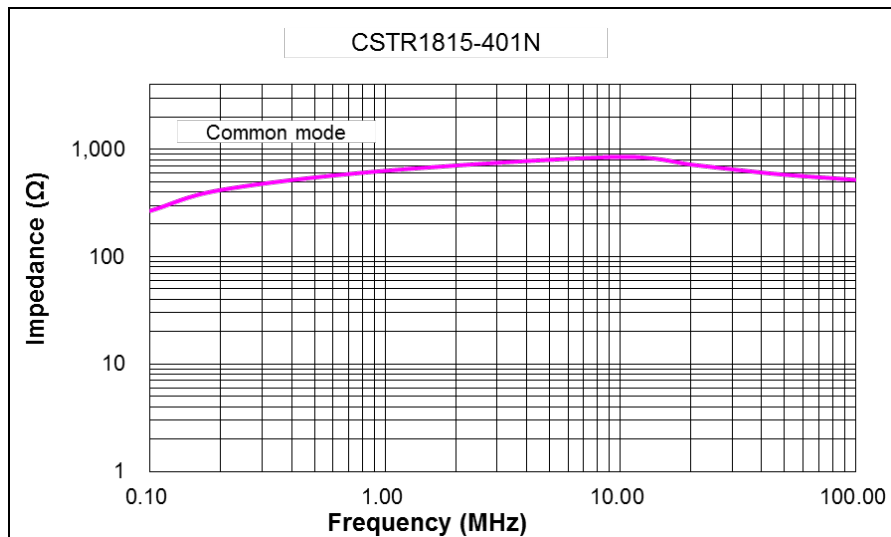
※1 Inductance measure condition at 10KHz,0.1V.  
电感测试条件为 10KHz,0.1V。

※2 Leakage inductance is for L1 and is measured with L2 shorted.  
漏感：在短路 L2 绕组的前提下测试 L1 绕组所得的电感。

※3 Rated current: value of DC current when the temperature rise is  $\Delta T40^\circ\text{C}$ ( $T_a=25^\circ\text{C}$ ).  
额定电流：使产品温度上升到  $\Delta T40^\circ\text{C}$ 时所加载的直流电流值( $T_a=25^\circ\text{C}$ )。

※ Special remind: Circuit design, component placement, PCB 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，印刷电路板(PCB)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 Impedance vs Frequency Curve**  
阻抗值 VS 频率曲线

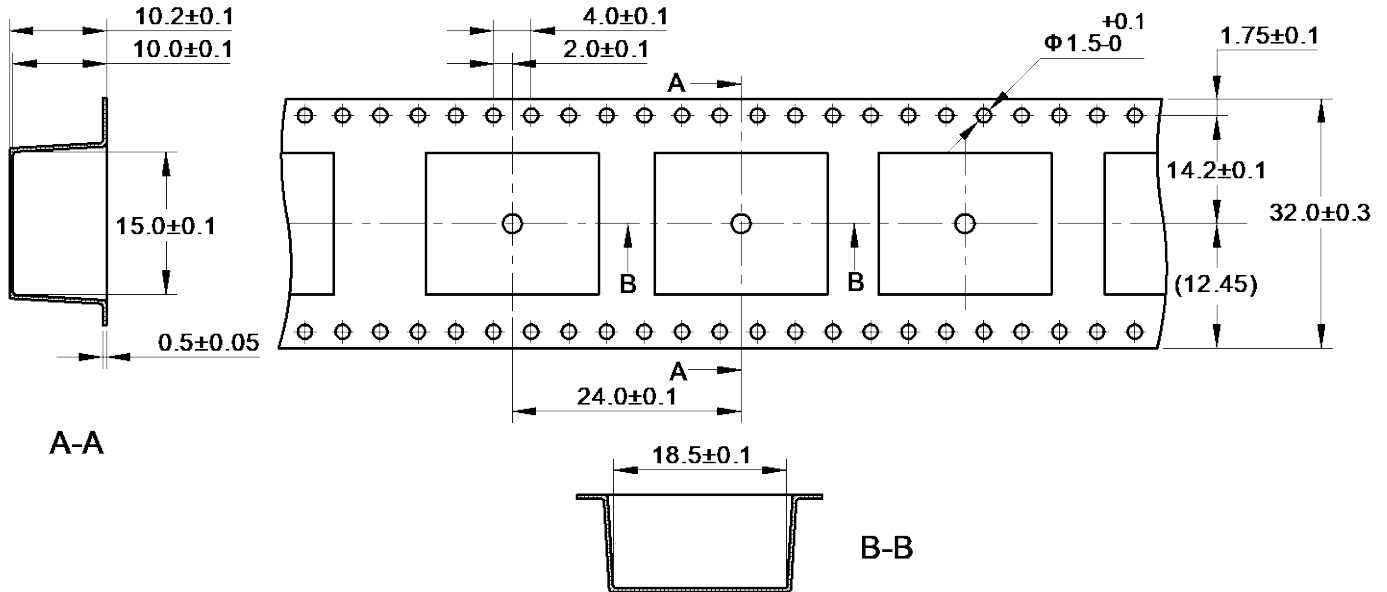


**7 Packing Specification**

**包装规格**

**7.1 Carrier Tape Dimensions (mm)**

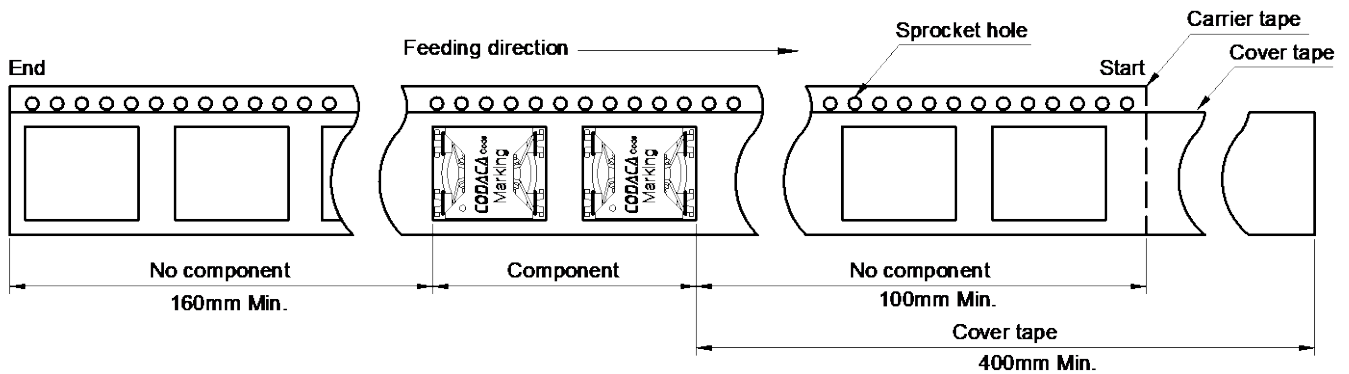
**载带尺寸**



※ 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**

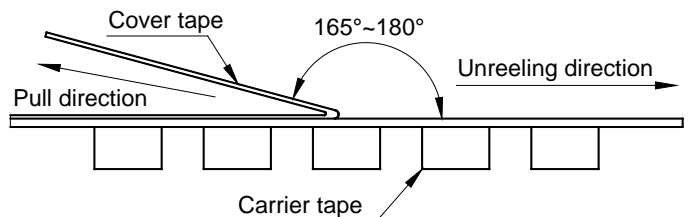
**捆包方向**



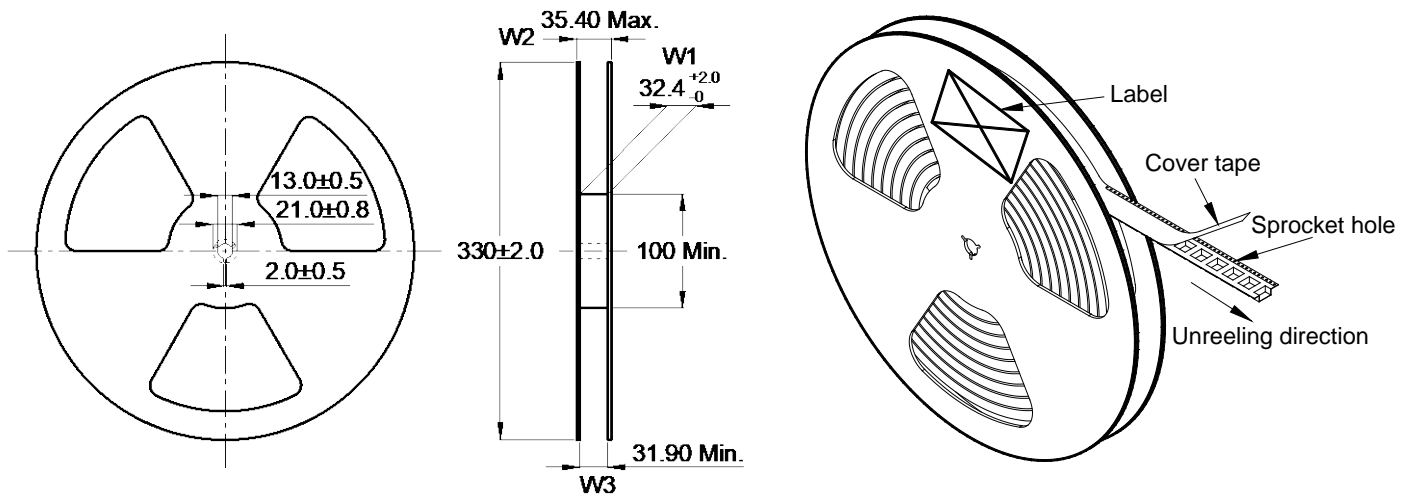
**7.3 Cover Tape Peel Off Condition**

**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(mm)



## 7.5 Carton Dimensions and Packing Quantity 包装箱尺寸和包装数量

■ Inner Carton: 340×340×95mm  
内包装箱

■ 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
CSTR1815	250pcs	(250×2) = 500pcs	(500×3) = 1500pcs

## 7.6 Label Making 标签标识

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

Production Label 产品标签
■ Packing No. 包装流水号
■ Quantity 数量
■ Shipment Date 出货日期
■ Part No. 产品型号
■ Customer Part No. 客户型号
■ Customer Po No. 客户订单号

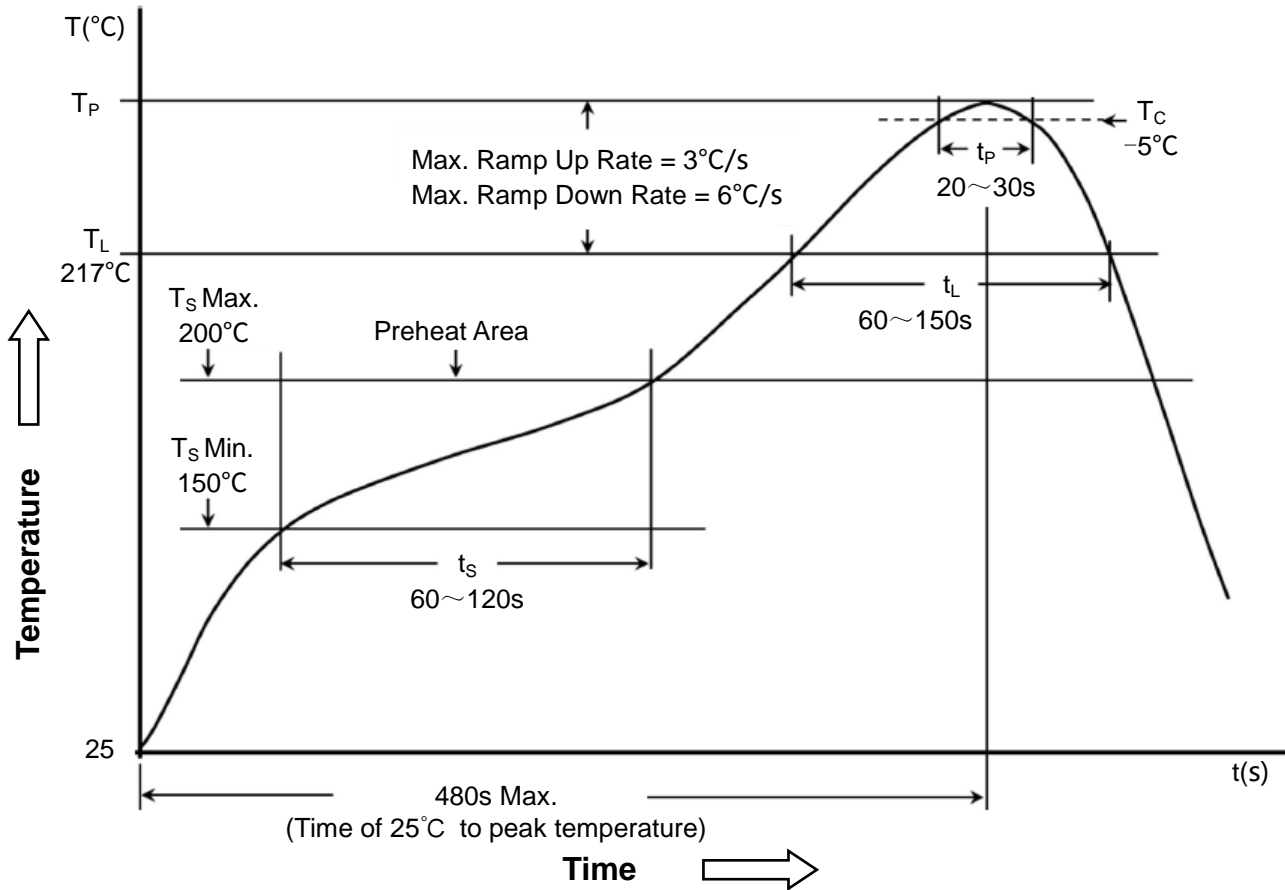
Shipping Label 运输标签
■ Packing No. 包装流水号
■ Quantity 数量
■ Shipment Date 出货日期
■ Part No. 产品型号
■ Customer Part No. 客户型号
■ Customer Po No. 客户订单号

**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 (Tp)

封装体峰值温度(Tp)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.