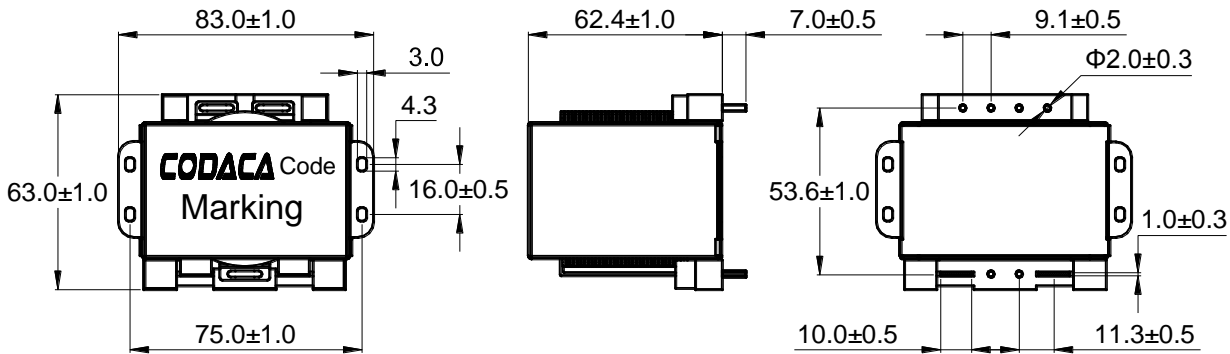


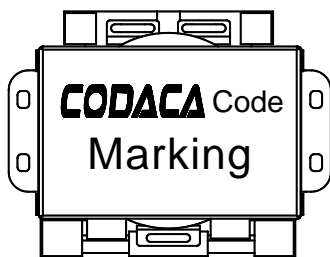
**Outline:
产品概要**

- Assemblage design, sturdy structure.
组立式设计，结构坚固。
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance.
高电感值，大电流，低磁损，低阻抗，寄生电容小。
- Flat wire winding, achieve a low D.C. Resistance.
扁平线绕组，实现极低的直流电阻。
- 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)

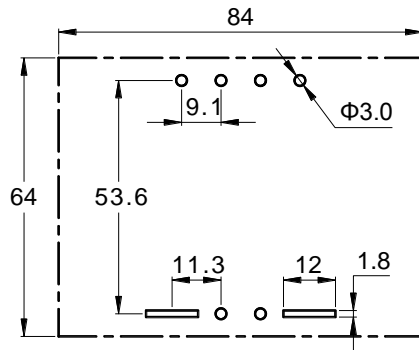
**1 Appearance and dimensions (mm)
外形尺寸**



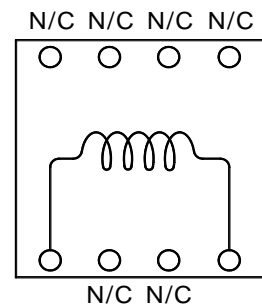
**2 Marking
印字标识**



**3 Reference hole pattern (mm)
参考焊孔尺寸**



**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		
CPFS6560-301M	300	9.66	11.6	27.0	25.0

■ 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 30% of its initial value.

饱和电流: 电感值下降其初始值的 30%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 ΔT50°C(Ta=25°C).

温升电流: 使产品温度上升到 ΔT50°C时所加载的实际直流电流值(Ta=25°C)。

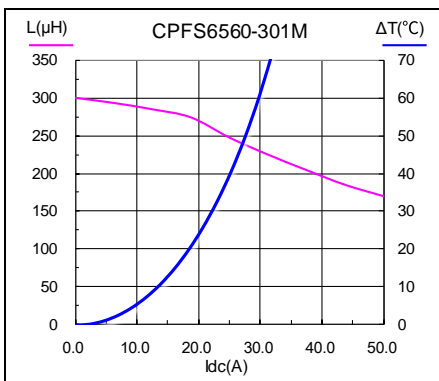
※ Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

特别提醒: 线路设计, 组件布局, 印刷电路板(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

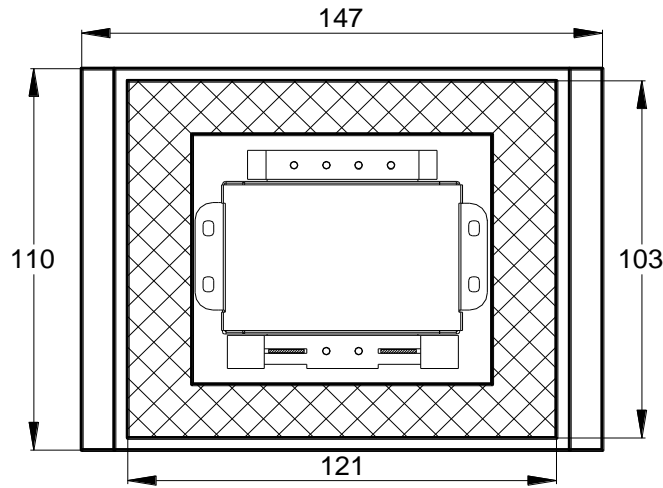


7 Packing specification

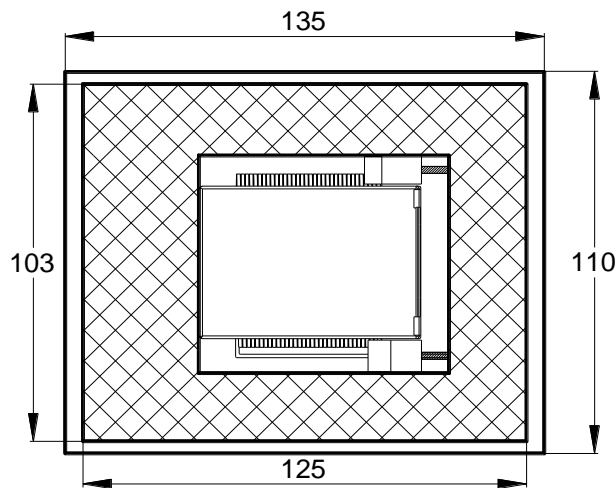
包装规格

7.1 Packing box dimensions (mm)

包装盒尺寸

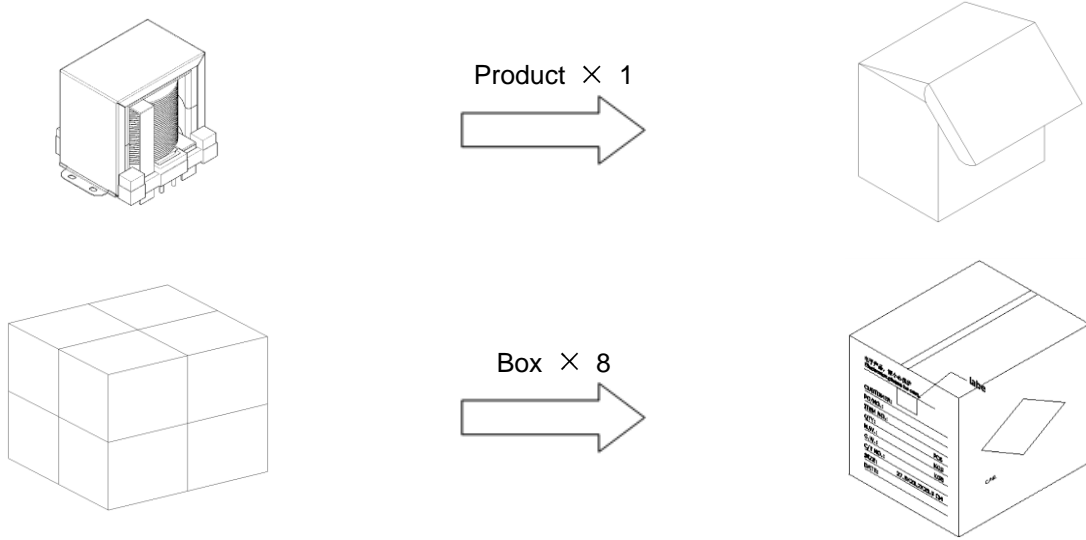


Box top
内盒顶部



Box side
内盒侧面

7.2 Packing 包装



7.3 Carton dimensions and packing quantity 包装箱尺寸和包装数量

■ Inner Carton : 147×110×135mm
内包装盒

■ Out Carton : 320×295×365mm
外包装箱

Product Series 产品系列	Inner Carton Quantity 内盒 包装数量	Out Carton Quantity 外箱 包装总数量
CPFS6560	1 pcs	(1×8) = 8pcs

7.4 Label making 标签标识

The following items will be marked on the box of product label and shipping label.
以下项目将明确标识于产品包装箱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