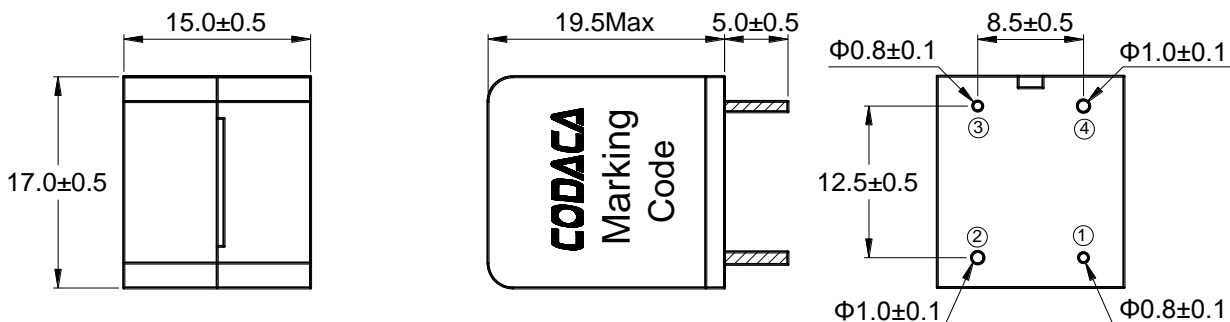




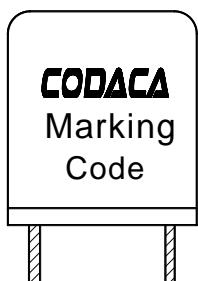
### Outline: 产品概要

- Magnetic shielded structure: excellent resistance to electromagnetic interference(EMI)  
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。
- 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。
- High temperature wire, closed magnetic circuit, ultra low buzz noise.  
耐高温铜线，磁路闭合，超低蜂鸣噪音。
- 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)

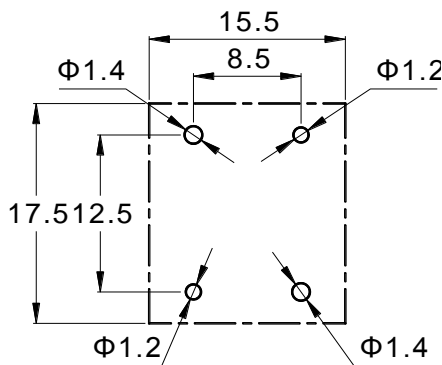
### 1 Appearance and dimensions (mm) 外形尺寸



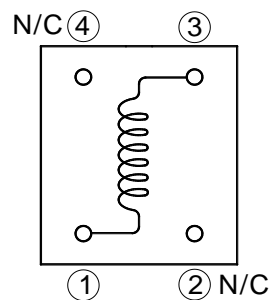
### 2 Marking 印字标识



### 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		
CPD1715-100M	10.0	13.8	16.0	30.0	8.20
CPD1715-120M	12.0	13.8	16.0	25.0	8.20
CPD1715-150M	15.0	13.8	16.0	18.0	8.20
CPD1715-180M	18.0	13.8	16.0	16.0	8.20
CPD1715-220M	22.0	13.8	16.0	11.0	8.20
CPD1715-330M	33.0	13.8	16.0	8.00	8.20
CPD1715-560M	56.0	13.8	16.0	6.00	8.20

■ 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 1kHz, 1V.

电感测试条件为 1kHz, 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  $\Delta T 40^{\circ}\text{C}$  ( $T_a = 25^{\circ}\text{C}$ ).

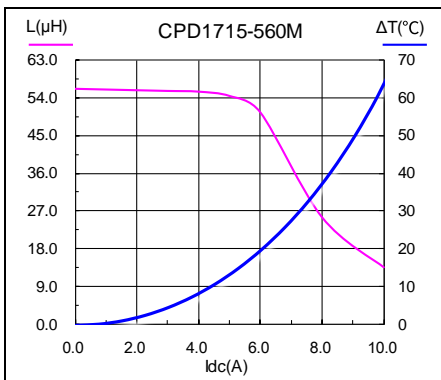
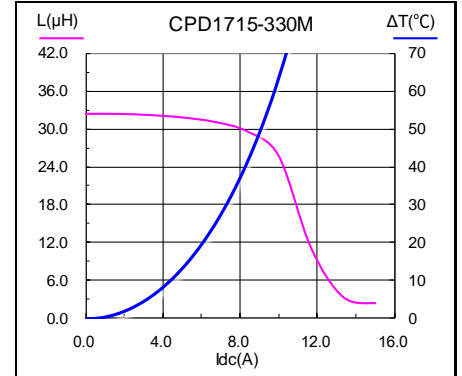
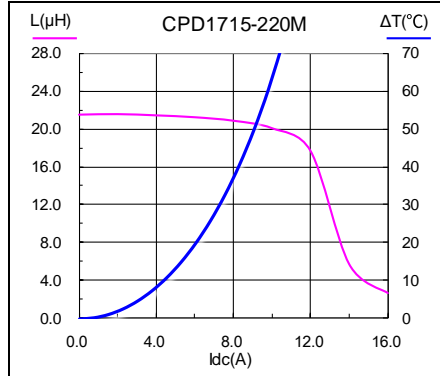
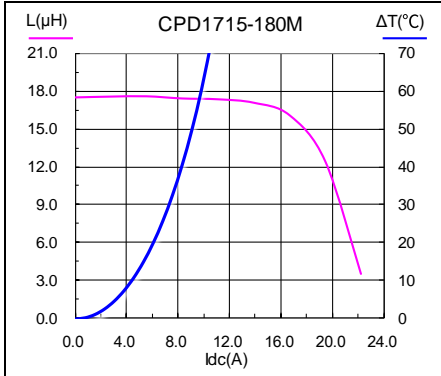
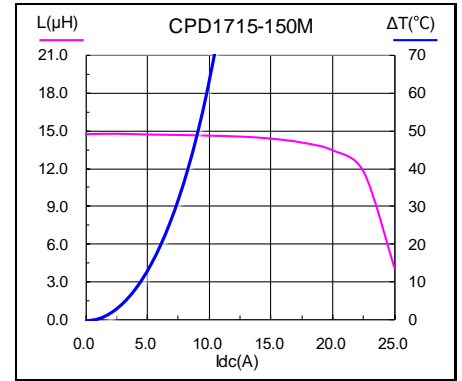
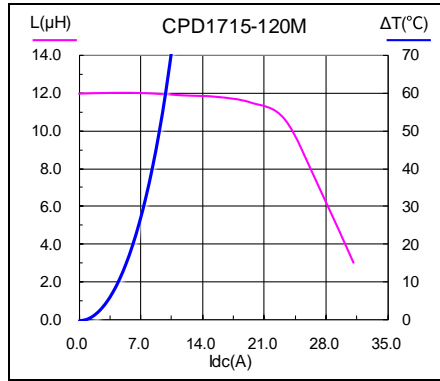
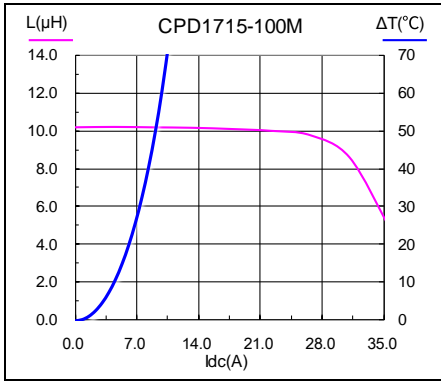
温升电流: 使产品温度上升到  $\Delta T 40^{\circ}\text{C}$  时所加载的实际直流电流值 ( $T_a = 25^{\circ}\text{C}$ )。

※ 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

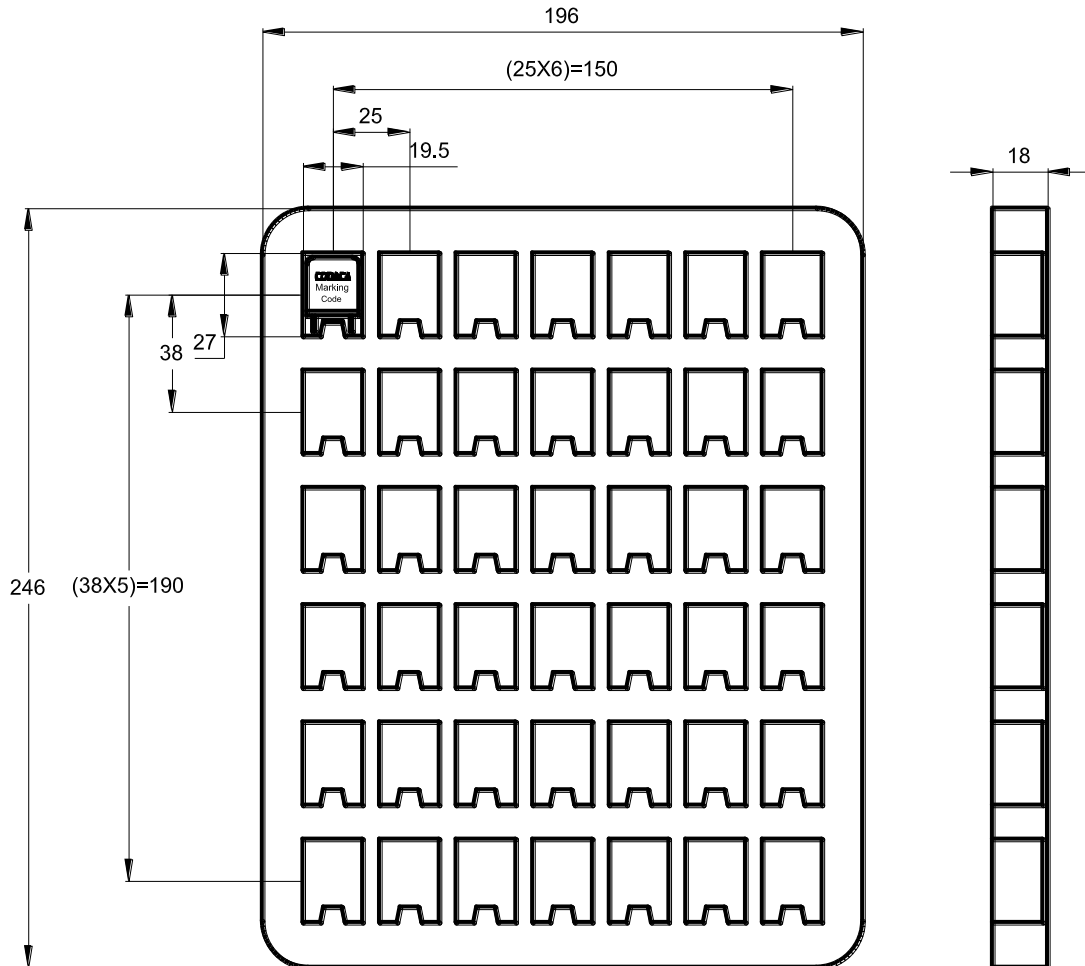


**7 Packing specification**

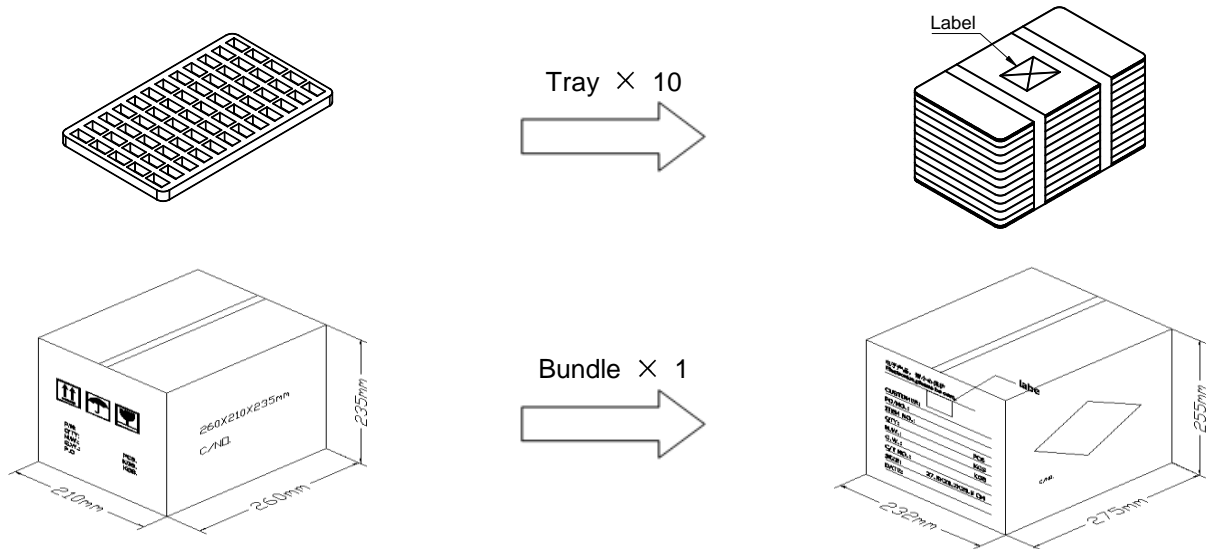
**包装规格**

7.1 Plastic tray dimensions (mm)

吸塑盘尺寸



### 7.2 Packing 包装



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

■ Inner Carton : 260×210×235mm  
内包装箱

■ Out Carton : 275×232×255mm  
外包装箱

Product Series 产品系列	Quantity / Tray 数量 / 盘	Quantity / Bundle 数量 / 捆	Out Carton Quantity 外箱 包装总数量
CPD1715	42pcs	(42×10) = 420pcs	(420×1) = 420pcs

### 7.4 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
■ 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