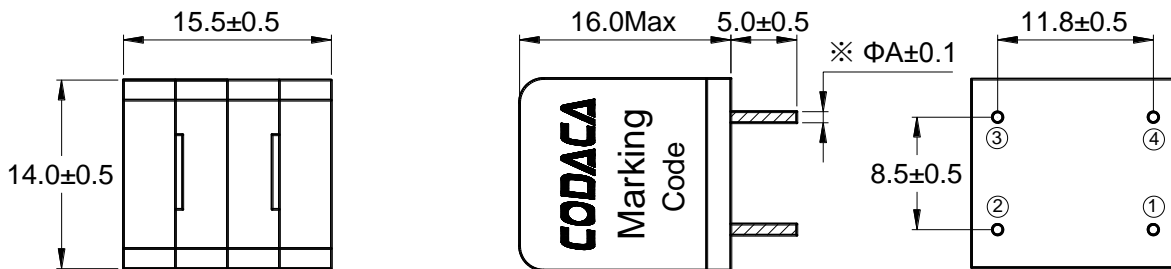


### Outline: 产品概要

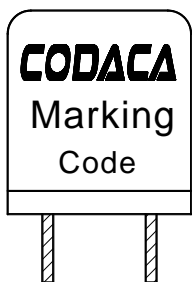
- Magnetic shielded structure: excellent resistance to electromagnetic interference (EMI)  
磁屏蔽结构：抗电磁干扰(EMI)性能强
- Assemblage design, sturdy structure.  
组立式设计，结构坚固。
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance.  
高电感值，大电流，低磁损，低阻抗，寄生电容小。
- High temperature wire, closed magnetic circuit, ultra low buzz noise.  
耐高温铜线，磁路闭合，超低蜂鸣噪音。
- Operating temperature :  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$   
(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

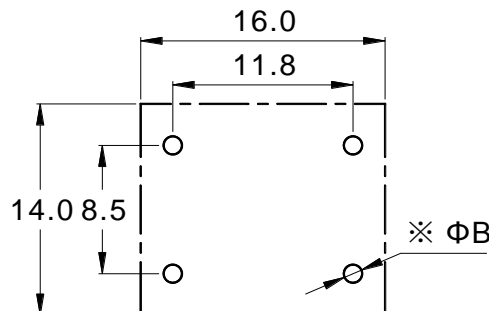


Part No.	4R7 - 100	150 - 220
Dimension A	0.80	0.70
Dimension B	1.20	1.10

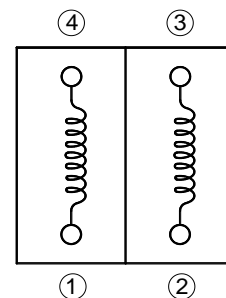
### 2 Marking 印字标识



### 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) (1-4)/(2-3) 电感值 ※1 ±20%	D.C.R. (mΩ) (1-4)/(2-3) 直流电阻		Saturation current (A) (1-4)/(2-3) 饱和电流 ※2 Typical	Temperature rise current (A) (1-4)/(2-3) 温升电流 ※3 Typical
		Typical	Max		
CPD1415B-4R7M	4.70	6.50	7.10	19.0	13.0
CPD1415B-6R0M	6.00	7.45	8.20	17.0	11.0
CPD1415B-7R5M	7.50	8.45	9.30	16.0	9.00
CPD1415B-100M	10.0	12.3	13.5	13.0	8.00
CPD1415B-150M	15.0	15.9	17.5	11.0	6.80
CPD1415B-180M	18.0	15.9	17.5	9.70	6.80
CPD1415B-220M	22.0	15.9	17.5	8.30	6.80

■ 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 ( $T_a=25^{\circ}\text{C}$ )。

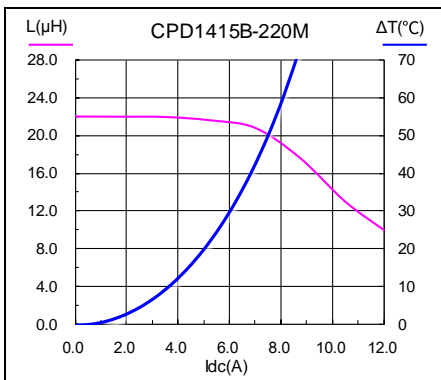
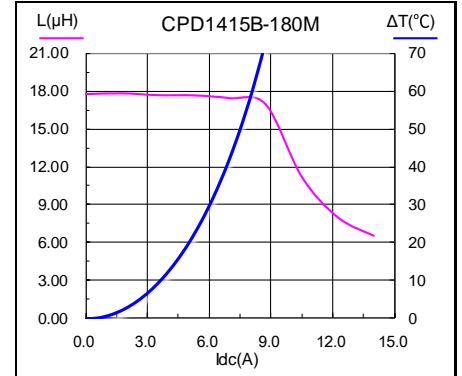
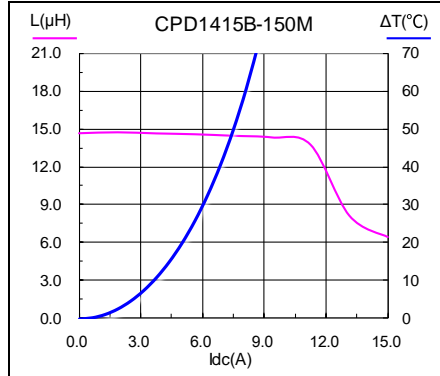
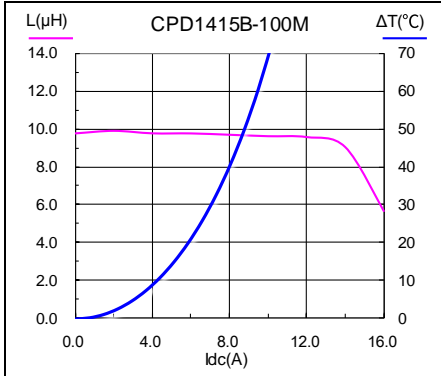
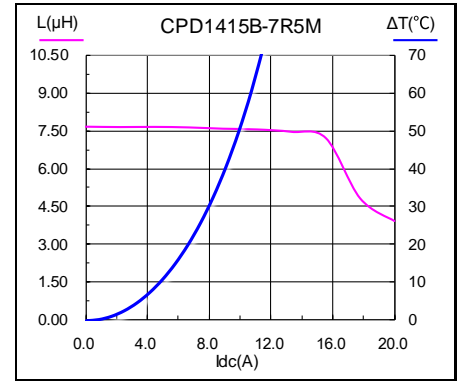
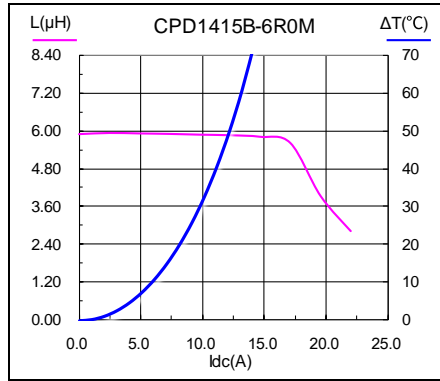
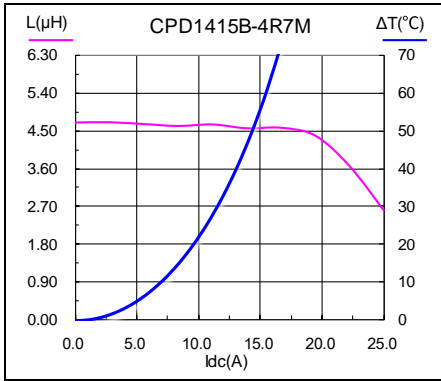
※ Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc.

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

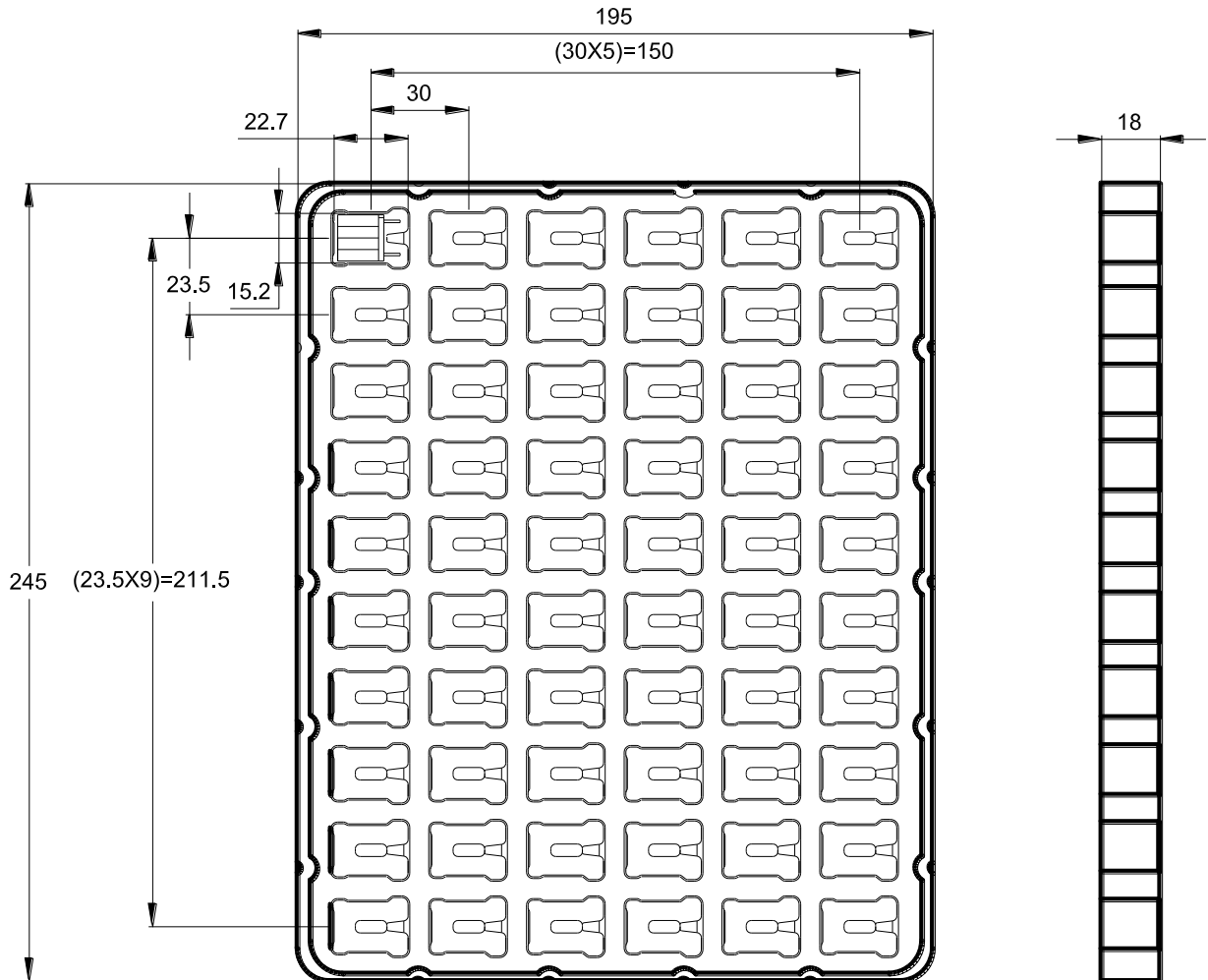


### 7 Packing specification

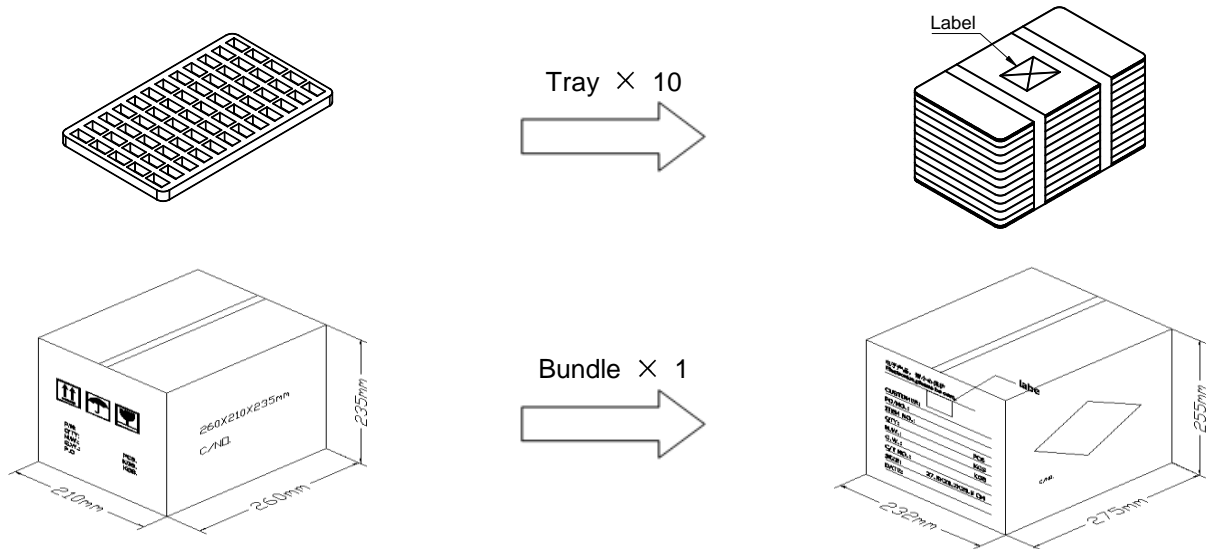
#### 包装规格

#### 7.1 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
CPD1415B	60pcs	(60×10) = 600pcs	(600×1) = 600pcs

### 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