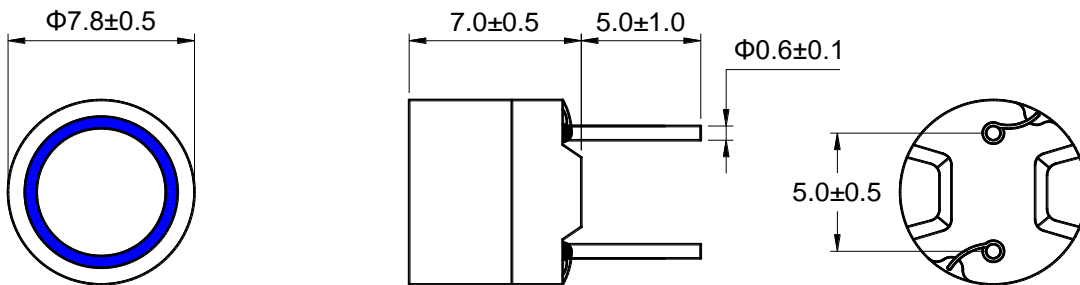




### Outline: 产品概要

- Magnetically shielded construction, high reliability.  
磁屏蔽结构，高可靠性。
- Lead free product, RoHS compliant.  
无铅产品，符合 RoHS 指令。
- Widely used in power supply, DC-DC converter, computer and peripherals, air-condition, display, home electric appliance, and etc.  
适用于电源，DC-DC 转换器，电脑及其外围设备，空调，显示器，家用电器等。
- 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

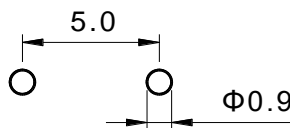


## 2 Marking 印字标识

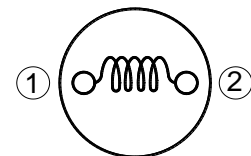


※ Marking is available if needed.  
如果需要，产品可印字。

## 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.<br>型号 | Inductance (μH)<br>电感值 ※1<br>±20% | D.C.R. (mΩ)<br>直流电阻 |       | Saturation<br>current (A)<br>饱和电流 ※2 |      | Temperature rise<br>current (A)<br>温升电流 ※3 |
|----------------|-----------------------------------|---------------------|-------|--------------------------------------|------|--|
|                |                                   | Typical             | Max   | Typical                              | Max  | Typical                                    |
| PRD0807-100M   | 10.0                              | 34.0                | 40.8  | 2.45                                 | 1.96 | 3.16                                       |
| PRD0807-150M   | 15.0                              | 36.0                | 43.2  | 2.30                                 | 1.84 | 3.07                                       |
| PRD0807-220M   | 22.0                              | 45.0                | 54.0  | 1.90                                 | 1.52 | 2.74                                       |
| PRD0807-330M   | 33.0                              | 73.0                | 87.6  | 1.55                                 | 1.24 | 2.15                                       |
| PRD0807-470M   | 47.0                              | 89.0                | 107   | 1.30                                 | 1.04 | 1.95                                       |
| PRD0807-680M   | 68.0                              | 109                 | 131   | 1.10                                 | 0.88 | 1.76                                       |
| PRD0807-820M   | 82.0                              | 154                 | 185   | 1.00                                 | 0.80 | 1.48                                       |
| PRD0807-101M   | 100                               | 168                 | 202   | 0.90                                 | 0.72 | 1.42                                       |
| PRD0807-151M   | 150                               | 283                 | 340   | 0.70                                 | 0.56 | 1.08                                       |
| PRD0807-221M   | 220                               | 348                 | 418   | 0.60                                 | 0.48 | 1.00                                       |
| PRD0807-331M   | 330                               | 516                 | 619   | 0.50                                 | 0.40 | 0.81                                       |
| PRD0807-471M   | 470                               | 920                 | 1,104 | 0.40                                 | 0.32 | 0.62                                       |
| PRD0807-681M   | 680                               | 1,380               | 1,656 | 0.35                                 | 0.28 | 0.50                                       |
| PRD0807-821M   | 820                               | 1,570               | 1,884 | 0.30                                 | 0.24 | 0.47                                       |
| PRD0807-102M   | 1,000                             | 1,750               | 2,100 | 0.25                                 | 0.20 | 0.44                                       |

■ 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。

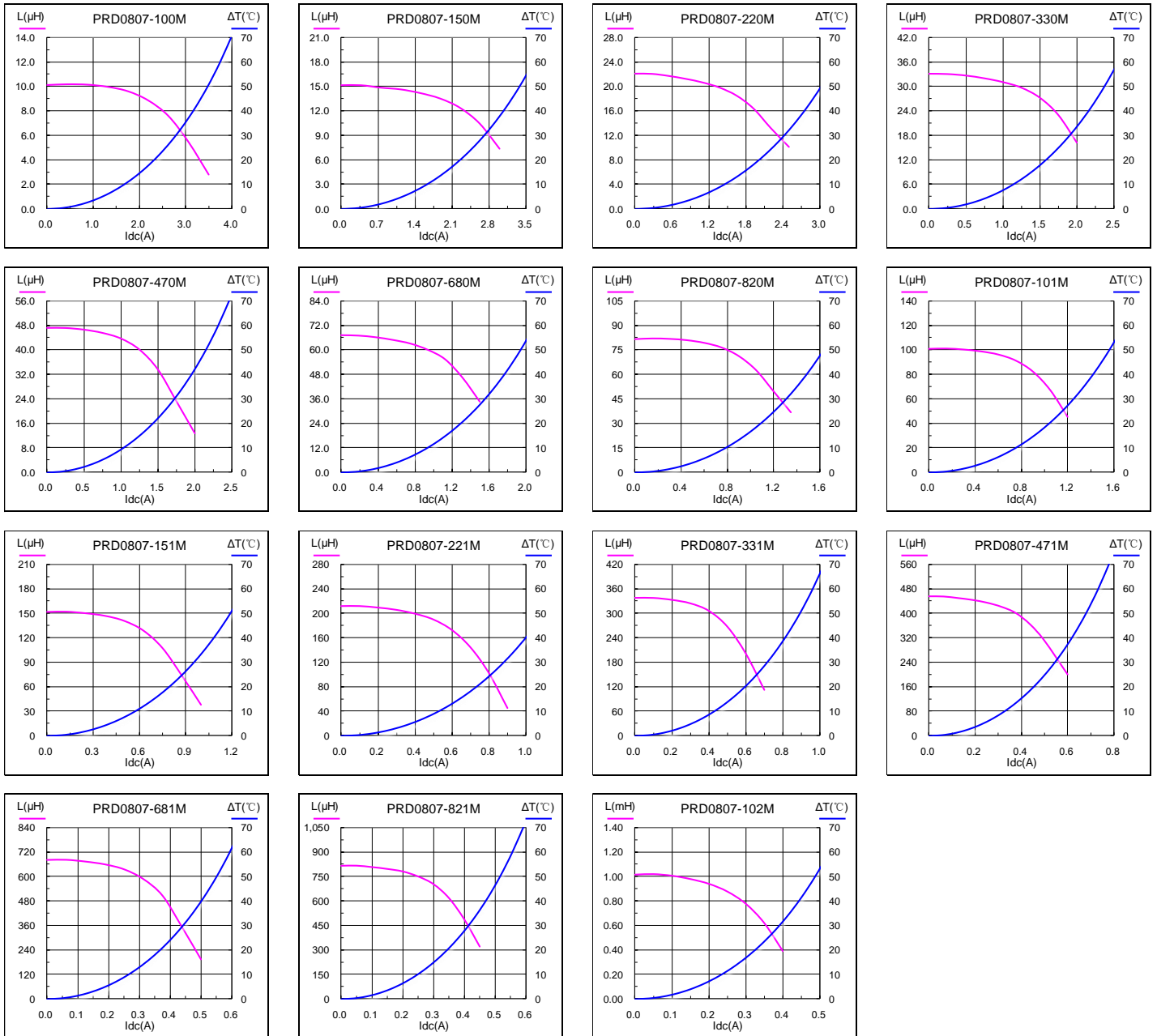
※1 Inductance measure condition at 100kHz, 0.1V.  
电感测试条件为 100kHz, 0.1V。

※2 Saturation current: the 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

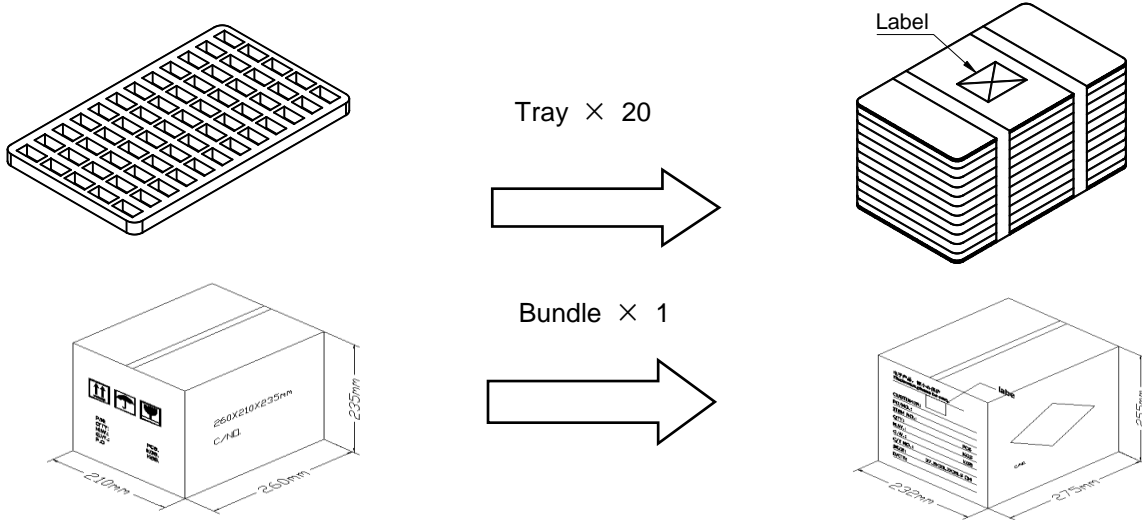


## 7 Packing specification

### 包装规格

#### 7.1 Packing

##### 包装



#### 7.2 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<br>产品系列 | Quantity / Tray<br>数量 / 盘 | Inner Carton Quantity<br>内盒 包装数量 | Out Carton Quantity<br>外箱 包装总数量 |
|------------------------|---------------------------|----------------------------------|---------------------------------|
| PRD0807                | 140pcs                    | (140×20) = 2800pcs               | (2800×1) = 2800pcs              |

#### 7.3 Label making

##### 标签标识

The following items will be marked on the bag of product label and shipping label.

以下项目将明确标识于产品包装袋标签以及运输标签上。

| Production Label<br>产品标签           |
|------------------------------------|
| ■ Part No.<br>产品型号                 |
| ■ Electrical Information<br>产品电性信息 |
| ■ Quantity<br>数量                   |
| ■ Packing No.<br>包装流水号             |

| Shipping Label<br>运输标签       |
|------------------------------|
| ■ Customer Name<br>客户名称      |
| ■ Customer Part No.<br>客户型号  |
| ■ Supplier Part No.<br>供应商型号 |
| ■ Supplier Name<br>供应商名称     |
| ■ Country of origin<br>产品产地  |