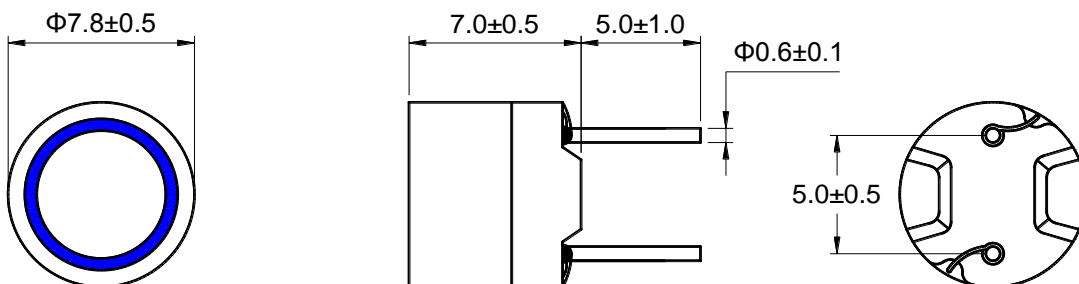


### Outline: 产品概要

- 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

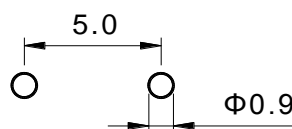


## 2 Marking 印字标识

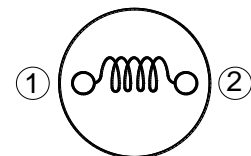


※ Marking is available if needed.  
如果需要，产品可印字。

## 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. 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		Temperature rise current (A) 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  $\Delta T 40^{\circ}\text{C}$  ( $T_a = 25^{\circ}\text{C}$ ).

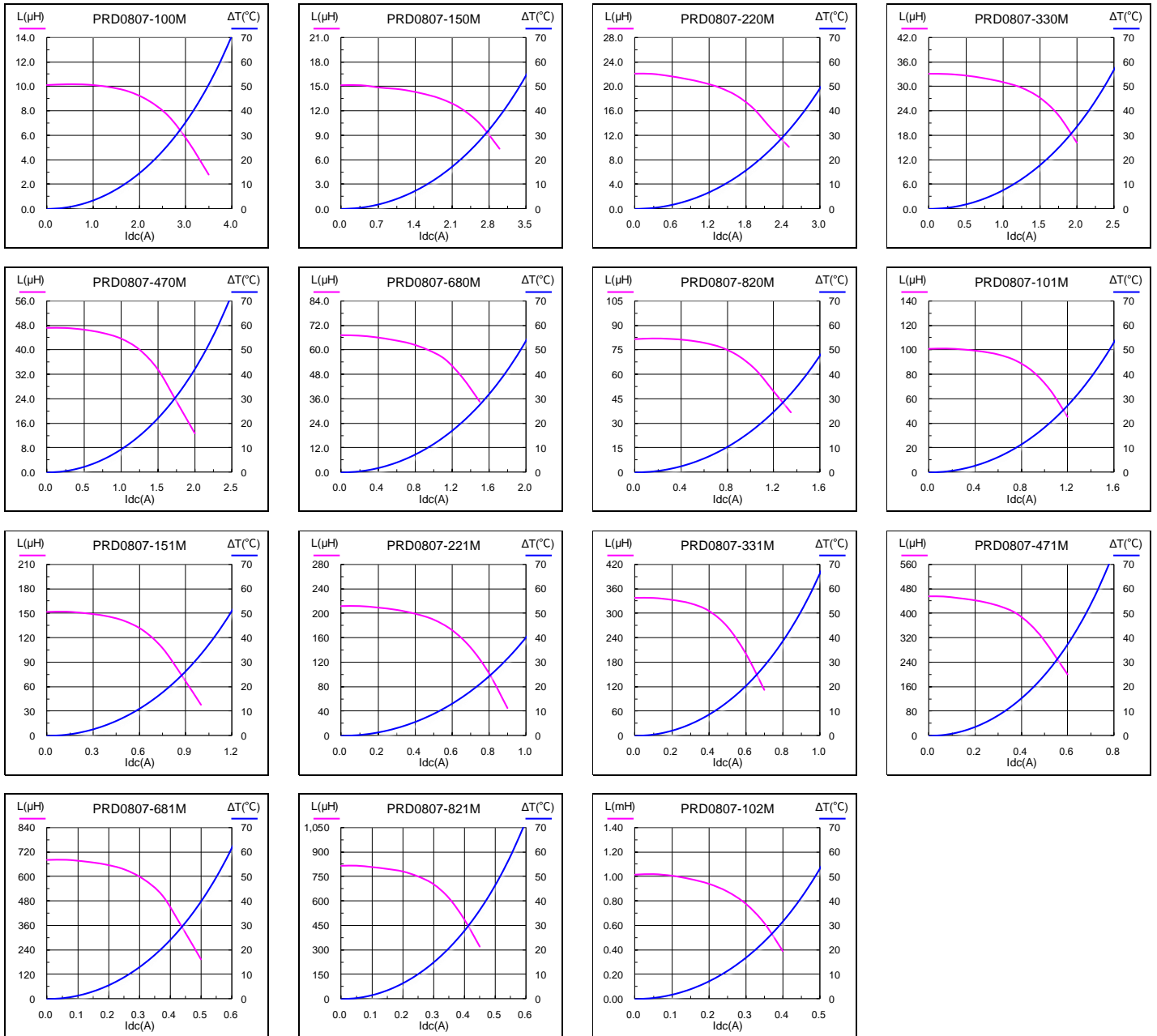
温升电流: 使产品温度上升到  $\Delta T 40^{\circ}\text{C}$  时所加载的实际直流电流值 ( $T_a = 25^{\circ}\text{C}$ )。

※ 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

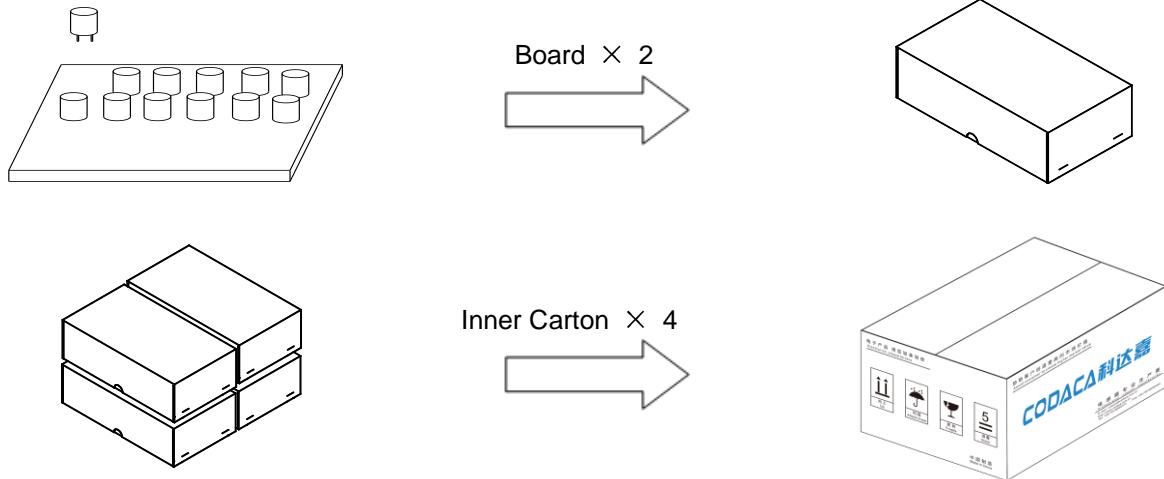


## 7 Packing specification

### 包装规格

#### 7.1 Packing

##### 包装



#### 7.2 Carton dimensions and packing quantity

##### 包装箱尺寸和包装数量

■ Inner Carton: 272×150×80mm  
内包装盒

■ Out Carton : 320×290×200mm  
外包装箱

Product Series 产品系列	Quantity / Board 数量 / 板	Inner Carton Quantity 内盒 包装数量	Out Carton Quantity 外箱 包装总数量
PRD0807	300pcs	(300×2) = 600pcs	(600×4) = 2400pcs

#### 7.3 Label making

##### 标签标识

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

以下项目将明确标识于产品包装盒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