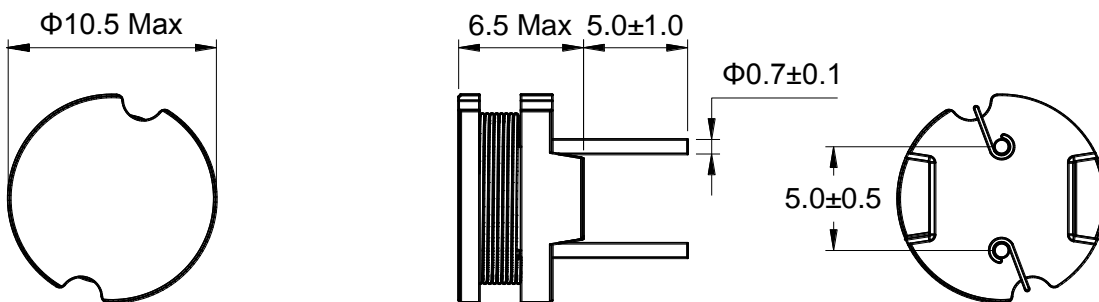




Outline: 产品概要

- High reliability, high consistency inductance.
高可靠性，电感值一致性好。
- High saturation current
饱和电流高。
- 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, 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，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)

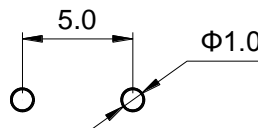
1 Appearance and dimensions (mm) 外形尺寸



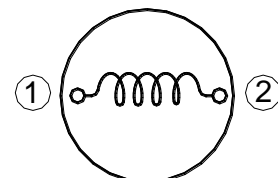
2 Marking 印字标识



3 Reference hole pattern (mm) 参考焊孔尺寸



4 Schematic 原理图



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

5 Electrical characteristics

电气特性

| Part No. 型号 | Inductance (μH) 电感值 ※1 ±10% | 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 |
| PKS1006-100K | 10.0 | 34.8 | 41.7 | 7.70 | 6.16 | 3.67 |
| PKS1006-120K | 12.0 | 38.0 | 45.6 | 6.80 | 5.44 | 3.51 |
| PKS1006-150K | 15.0 | 48.1 | 57.7 | 6.50 | 5.20 | 3.12 |
| PKS1006-180K | 18.0 | 55.2 | 66.2 | 6.00 | 4.80 | 2.92 |
| PKS1006-220K | 22.0 | 73.8 | 88.6 | 5.40 | 4.32 | 2.52 |
| PKS1006-270K | 27.0 | 87.5 | 105 | 4.95 | 3.96 | 2.32 |
| PKS1006-330K | 33.0 | 98.3 | 118 | 4.60 | 3.68 | 2.18 |
| PKS1006-390K | 39.0 | 113 | 136 | 4.00 | 3.20 | 2.03 |
| PKS1006-470K | 47.0 | 140 | 168 | 3.60 | 2.88 | 1.83 |
| PKS1006-560K | 56.0 | 159 | 191 | 3.40 | 2.72 | 1.72 |
| PKS1006-680K | 68.0 | 194 | 233 | 3.00 | 2.40 | 1.55 |
| PKS1006-820K | 82.0 | 223 | 268 | 2.80 | 2.24 | 1.45 |
| PKS1006-101K | 100 | 293 | 351 | 2.40 | 1.92 | 1.27 |
| PKS1006-121K | 120 | 328 | 394 | 2.20 | 1.76 | 1.20 |
| PKS1006-151K | 150 | 407 | 488 | 2.10 | 1.68 | 1.07 |
| PKS1006-181K | 180 | 523 | 628 | 1.85 | 1.48 | 0.95 |
| PKS1006-221K | 220 | 606 | 727 | 1.75 | 1.40 | 0.88 |
| PKS1006-271K | 270 | 779 | 935 | 1.56 | 1.25 | 0.78 |
| PKS1006-331K | 330 | 924 | 1,109 | 1.36 | 1.09 | 0.71 |
| PKS1006-391K | 390 | 1,055 | 1,266 | 1.30 | 1.04 | 0.67 |
| PKS1006-471K | 470 | 1,310 | 1,572 | 1.15 | 0.92 | 0.60 |
| PKS1006-561K | 560 | 1,534 | 1,840 | 1.08 | 0.86 | 0.55 |
| PKS1006-681K | 680 | 1,769 | 2,123 | 0.98 | 0.78 | 0.51 |
| PKS1006-821K | 820 | 2,283 | 2,740 | 0.88 | 0.70 | 0.45 |
| PKS1006-102K | 1,000 | 2,634 | 3,161 | 0.77 | 0.62 | 0.42 |

■ 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,0.25V.

电感测试条件为 1kHz,0.25V。

※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 ($T_a=25^{\circ}\text{C}$)。

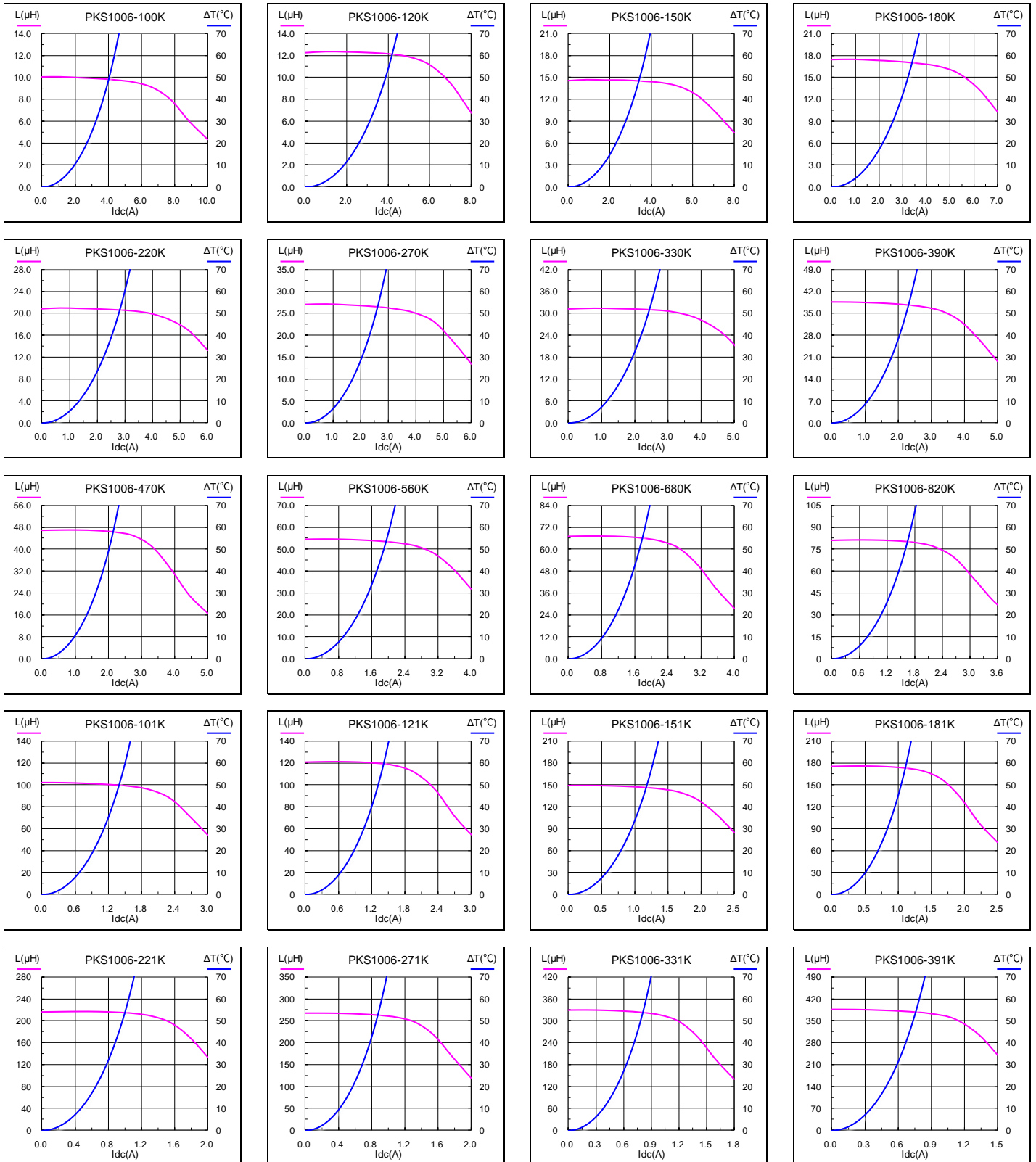
※ Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc.

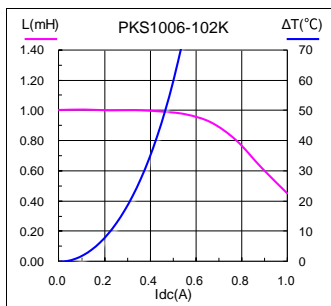
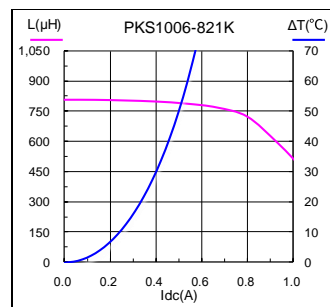
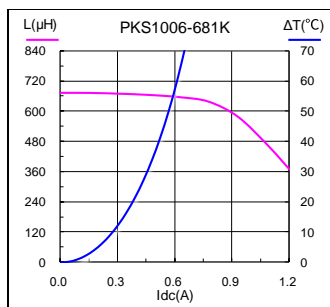
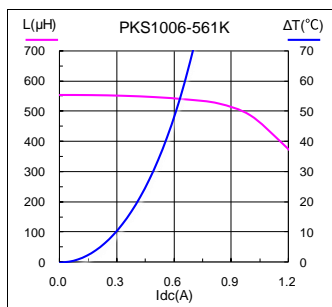
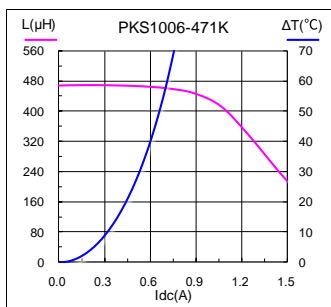
all will affect the product temperature. Please verify the product temperature in the final application.

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



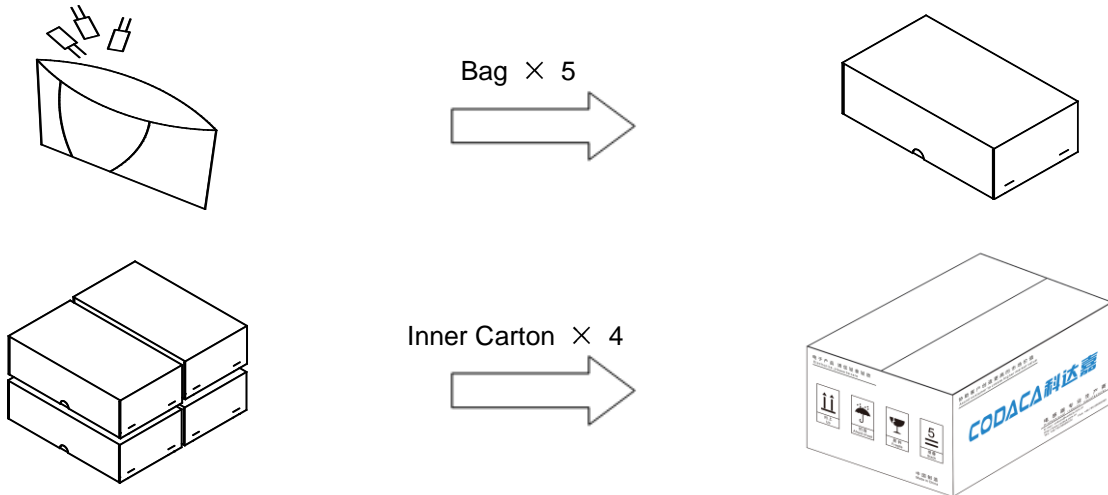


7 Packing specification

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: 272×150×80mm
内包装盒

■ Out Carton : 320×290×200mm
外包装箱

| Product Series 产品系列 | Quantity / Bag 数量 / 袋 | Inner Carton Quantity 内盒 包装数量 | Out Carton Quantity 外箱 包装总数量 |
|------------------------|--------------------------|----------------------------------|---------------------------------|
| PKS1006 | 300pcs | (300×4) = 1200pcs | (1200×4) = 4800pcs |

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 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 |