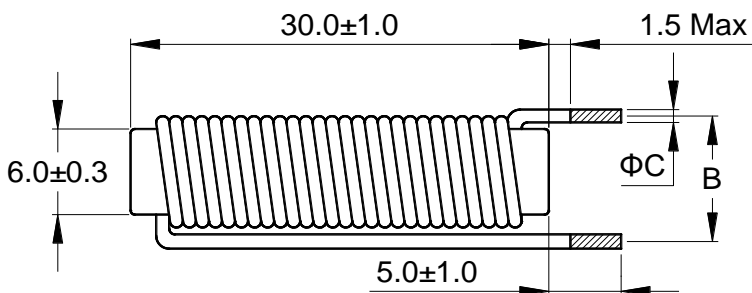




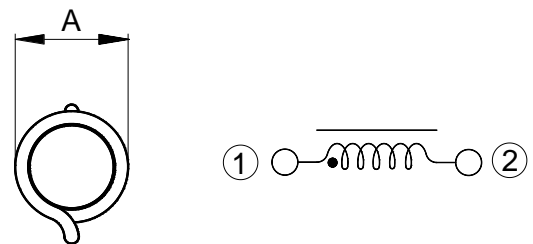
Outline: 产品概要

- Use ferrite core, high frequency.
铁氧体磁芯，工作频率高。
- Low DC resistance, high saturation current.
低直流电阻，高饱和电流。
- Lead free product, RoHS compliant.
无铅产品，符合 RoHS 指令。
- Widely used in switching power supply, power amplifier, output antenna, filter, displayer, UPS, and etc.
广泛应用于开关电源，功率放大器，输出天线，滤波器，显示器，不间断电源等。
- 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)

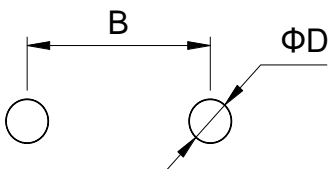
1 Appearance and dimensions (mm) 外形尺寸



2 Schematic 原理图



3 Reference hole pattern (mm) 参考焊孔尺寸



| Part No. 型号 | A | B | C | D |
|----------------|------|------|-------|------|
| | Max | ±1.0 | ±0.15 | Ref. |
| 4R5 | 10.2 | 14.5 | 1.80 | 2.20 |
| 5R6 | 10.0 | 14.0 | 1.70 | 2.10 |
| 6R8 | 9.50 | 12.5 | 1.40 | 1.80 |
| 7R5 | 9.50 | 12.5 | 1.40 | 1.80 |
| 8R2 | 9.20 | 12.0 | 1.30 | 1.70 |
| 100 | 9.00 | 11.5 | 1.20 | 1.60 |
| 150 | 8.50 | 10.0 | 0.90 | 1.30 |
| 220 | 8.20 | 10.0 | 0.80 | 1.20 |

4 Electrical characteristics

电气特性

| Part No. 品名 | 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 | | |
| RKR0630-4R5M | 4.50 | 2.70 | 3.50 | 16.5 | 24.3 |
| RKR0630-5R6M | 5.60 | 3.29 | 4.28 | 15.0 | 22.0 |
| RKR0630-6R8M | 6.80 | 4.70 | 6.00 | 14.0 | 18.4 |
| RKR0630-7R5M | 7.50 | 4.90 | 6.40 | 13.0 | 18.0 |
| RKR0630-8R2M | 8.20 | 5.79 | 7.53 | 11.0 | 16.6 |
| RKR0630-100M | 10.0 | 7.68 | 9.98 | 10.5 | 14.4 |
| RKR0630-150M | 15.0 | 10.3 | 13.4 | 9.00 | 12.4 |
| RKR0630-220M | 22.0 | 24.6 | 32.0 | 7.50 | 8.00 |

- 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 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 $\Delta T 40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).

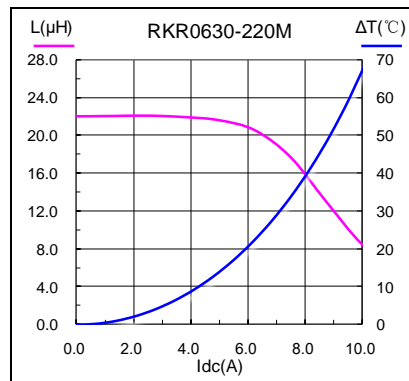
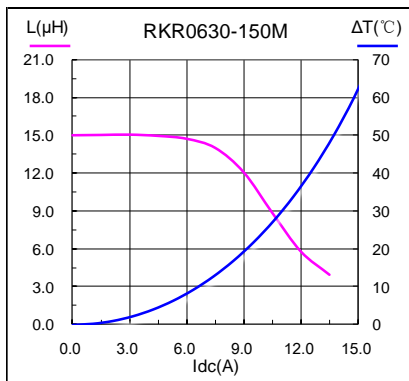
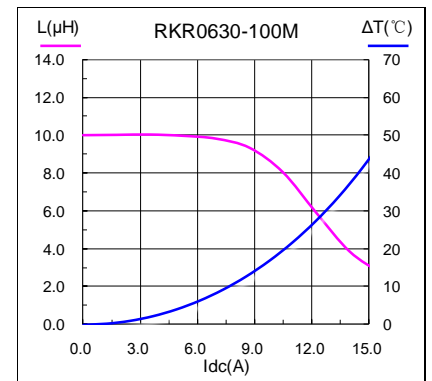
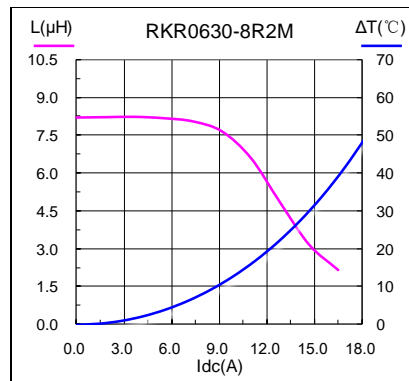
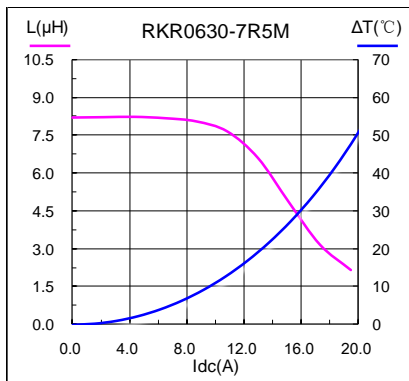
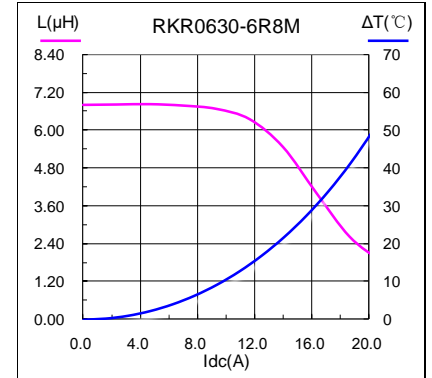
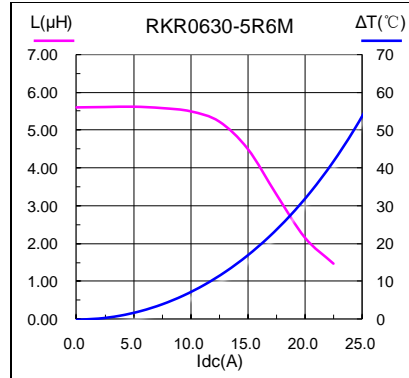
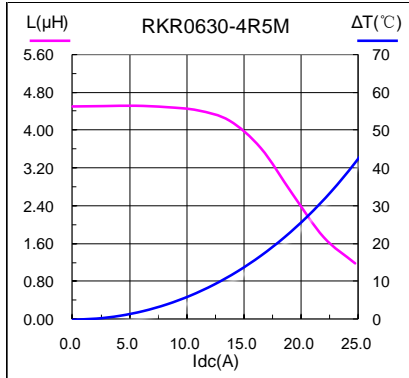
温升电流：使产品温度上升到 $\Delta T 40^{\circ}\text{C}$ 时所加载的实际直流电流值 ($T_a=25^{\circ}\text{C}$)。

- ※ 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。

5 Saturation current VS temperature rise current curve 饱和电流 VS 温升电流曲线

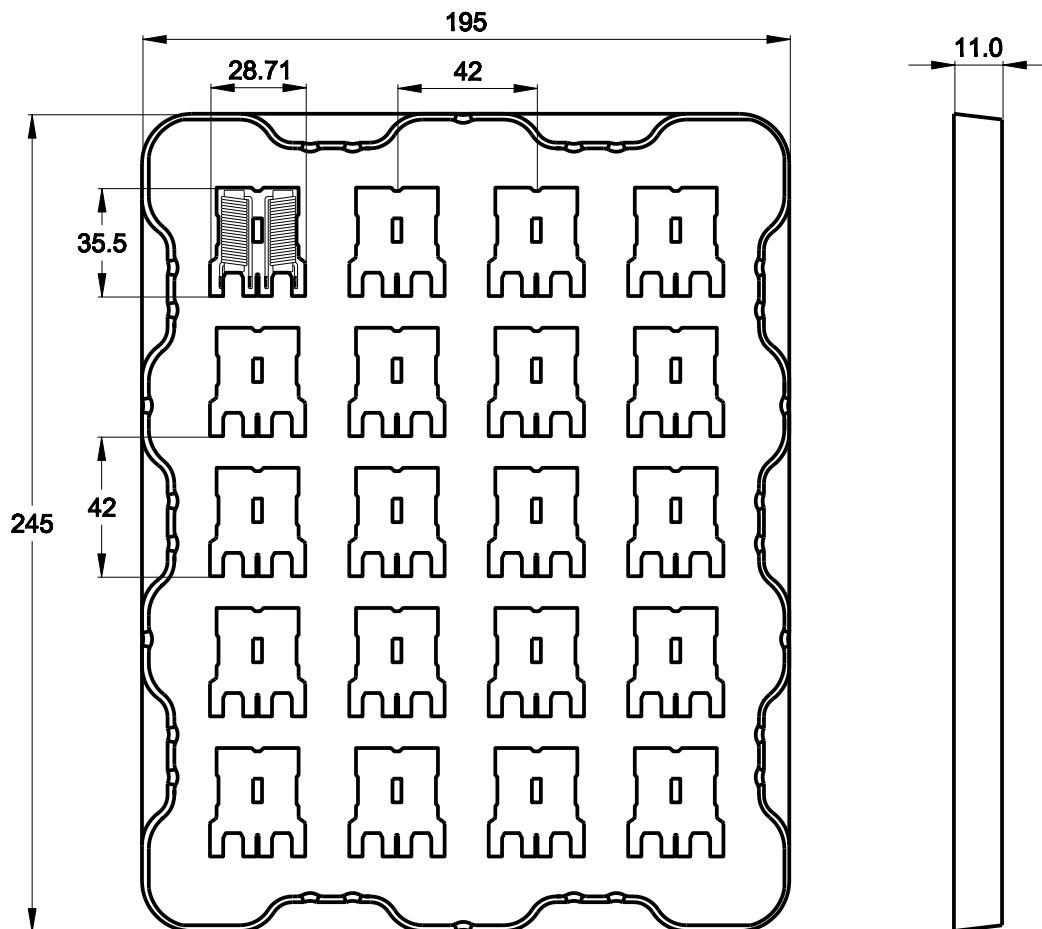


6 Packing specification

包装规格

6.1 Plastic tray dimensions (mm)

吸塑盘尺寸

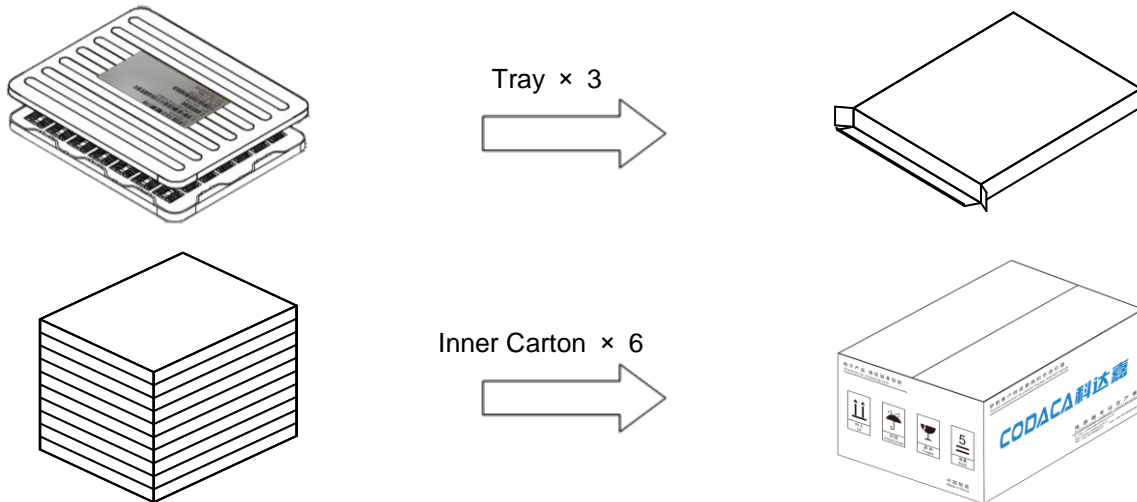


7 Packing specification

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 : 265×205×40mm
内包装盒

■ Out Carton : 275×232×255mm
外包装箱

| Product Series 产品系列 | Quantity / tray 数量 / 盘 | Inner Carton Quantity 内盒 包装数量 | Out Carton Quantity 外箱 包装总数量 |
|------------------------|---------------------------|----------------------------------|---------------------------------|
| RKR0630 | 40pcs | (40×3) = 120pcs | (120×6) = 720pcs |

7.3 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 |