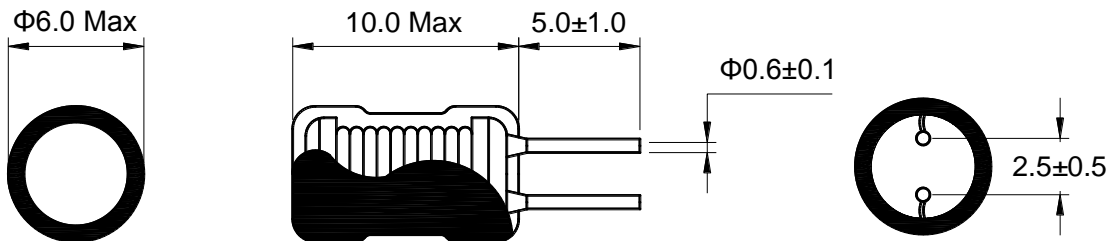


### Outline: 产品概要

- High reliability, high consistency inductance.  
高可靠性，电感值一致性好。
- Lead free product, RoHS compliant.  
无铅产品，符合 RoHS 指令。
- Core is encapsulated by UL heat shrink tube to provide excellent mechanic and environmental protection.  
整体包覆在 UL 热缩套管内，提供极佳的机械和环境保护。
- 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°C ~ +125°C  
(Including coil's temperature rise)  
工作温度：-40°C ~ +125°C (包含线圈发热)

### 1 Appearance and dimensions (mm) 外形尺寸

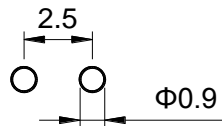


### 2 Marking 印字标识

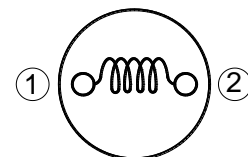


※ Marking is available if needed.  
如果需要，产品可印字。

### 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 ±10%	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		
PK0507-100K	10.0	56.0	67.0	1.70	1.40
PK0507-220K	22.0	84.0	101	1.00	0.90
PK0507-470K	47.0	140	168	0.70	0.60
PK0507-101K	100	252	303	0.55	0.40
PK0507-221K	220	525	630	0.40	0.30
PK0507-471K	470	1,120	1,340	0.25	0.20
PK0507-102K	1,000	2,170	2,600	0.14	0.10
PK0507-222K	2,200	4,760	5,700	0.09	0.06
PK0507-472K	4,700	10,500	12,600	0.07	0.05
PK0507-103K	10,000	24,500	29,400	0.03	0.02
PK0507-223K	22,000	56,000	67,200	0.02	0.01
PK0507-473K	47,000	119,000	142,800	0.01	0.01

■ 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 ΔT40°C(Ta=25°C).  
温升电流: 使产品温度上升到 ΔT40°C时所加载的实际直流电流值(Ta=25°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**

