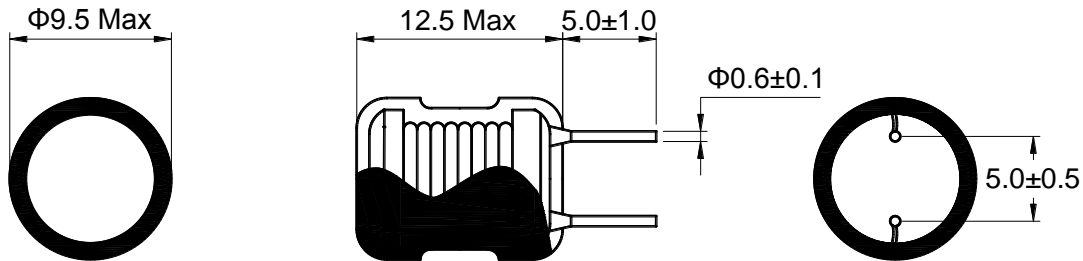


Outline: 产品概要

- 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 : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
(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

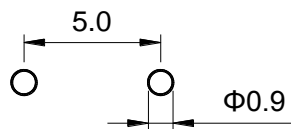


2 Marking 印字标识

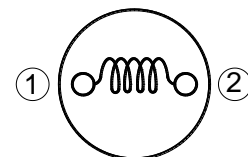


※ Marking is available if needed.
如果需要，产品可印字。

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	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		
PK0810-1R0M	1.00 ±20%	14.0	16.8	7.00	4.80
PK0810-2R2M	2.20 ±20%	21.0	25.2	6.00	4.50
PK0810-4R7M	4.70 ±20%	35.0	42.0	4.00	4.00
PK0810-100K	10.0 ±10%	70.0	84.0	3.00	2.50
PK0810-220K	22.0 ±10%	98.0	118	2.50	2.00
PK0810-470K	47.0 ±10%	112	134	1.80	1.50
PK0810-101K	100 ±10%	203	244	1.10	0.90
PK0810-221K	220 ±10%	434	521	0.75	0.50
PK0810-102K	1,000 ±10%	1,590	1,900	0.40	0.25
PK0810-222K	2,200 ±10%	2,940	3,520	0.24	0.15
PK0810-472K	4,700 ±10%	7,700	9,240	0.20	0.13
PK0810-103K	10,000 ±10%	14,000	16,800	0.10	0.07
PK0810-223K	22,000 ±10%	30,100	36,100	0.06	0.03
PK0810-473K	47,000 ±10%	68,600	82,300	0.04	0.02

■ 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**

