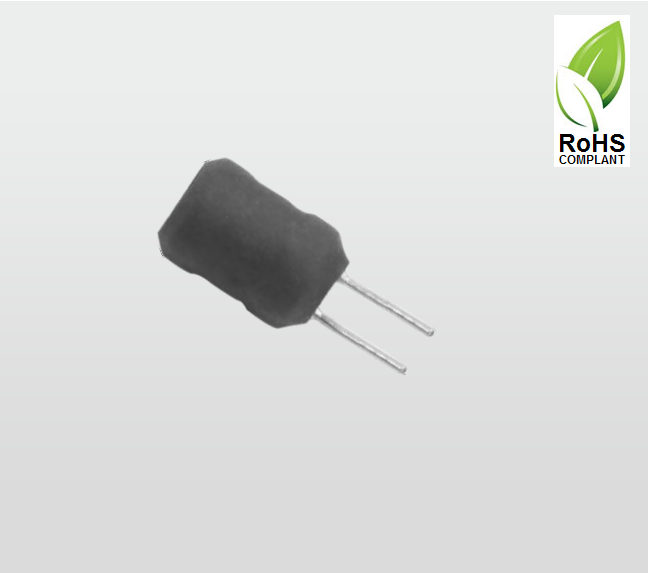
CODACA科达嘉

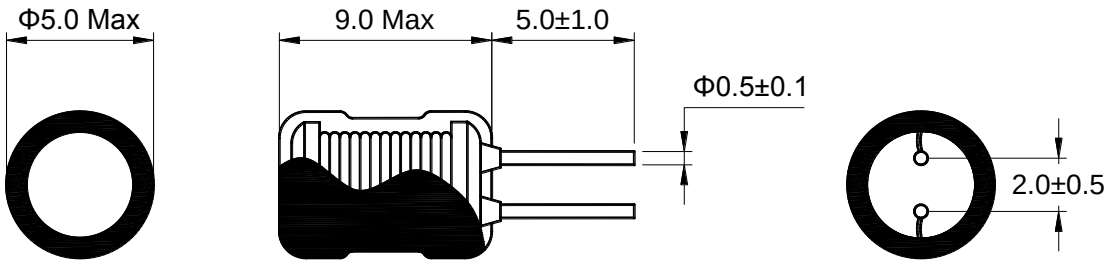
DIP Inductor
- PK0406 Series



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℃ ～ +125℃
  (Including coil's temperature rise)
  工作温度：-40℃ ～ +125℃ (包含线圈发热)

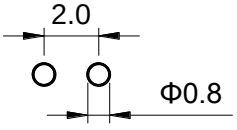
1 Appearance and dimensions (mm)
外形尺寸



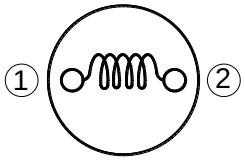
2 Marking
印字标识

※ 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



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5 Electrical characteristics
电气特性

Part No. 型　号	Inductance (μH) 电感值 ※1	D.C.R. (Ω) 直流电阻		Saturation current (A) 饱和电流 ※2	Temperature rise current (A) 温升电流 ※3
		Typical	Max	Typical	Typical
PK0406-1R0M	1.00 ±20%	0.07	0.08	2.60	2.00
PK0406-2R2M	2.20 ±20%	0.14	0.17	2.40	1.80
PK0406-4R7M	4.70 ±20%	0.18	0.22	2.00	1.60
PK0406-100K	10.0 ±10%	0.32	0.38	1.00	0.70
PK0406-220K	22.0 ±10%	0.50	0.60	0.90	0.60
PK0406-330K	33.0 ±10%	0.60	0.72	0.80	0.55
PK0406-470K	47.0 ±10%	0.69	0.83	0.70	0.45
PK0406-101K	100 ±10%	2.10	2.52	0.40	0.25
PK0406-221K	220 ±10%	4.06	4.87	0.28	0.20
PK0406-471K	470 ±10%	5.95	7.14	0.20	0.15
PK0406-102K	1,000 ±10%	11.9	14.3	0.12	0.08
PK0406-222K	2,200 ±10%	18.2	21.9	0.09	0.07
PK0406-472K	4,700 ±10%	42.0	50.4	0.06	0.03
PK0406-103K	10,000 ±10%	66.5	79.8	0.02	0.01

■ All data is tested based on 25℃ ambient temperature.
所有数据基于环境温度 25℃条件下测试。

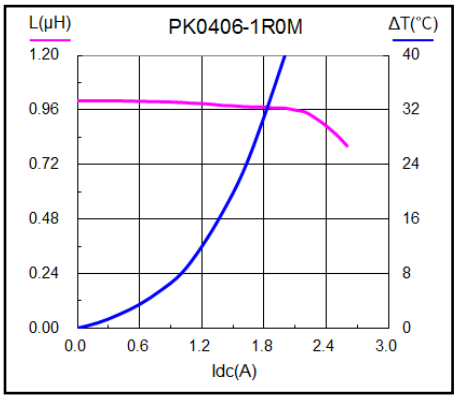
※1 Inductance measure condition at 1kHz, 0.25V.
电感测试条件为 1kHz，0.25V。

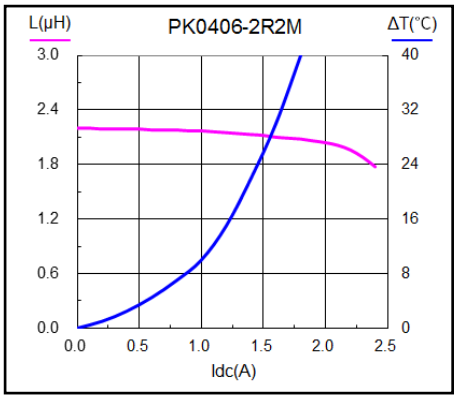
※2 Saturation current：the actual value of DC current when the inductance decrease 20% of its initial value.
饱和电流：电感值下降其初始值的 20%时所加载的实际直流电流值。

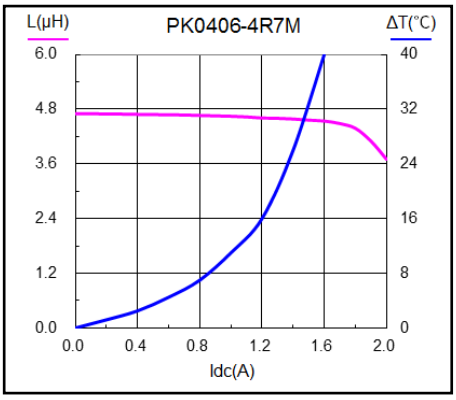
※3 Temperature rise current：the actual value of DC current when the temperature rise is ΔT40℃(Ta=25℃).
温升电流：使产品温度上升到 ΔT40℃时所加载的实际直流电流值(Ta=25℃)。

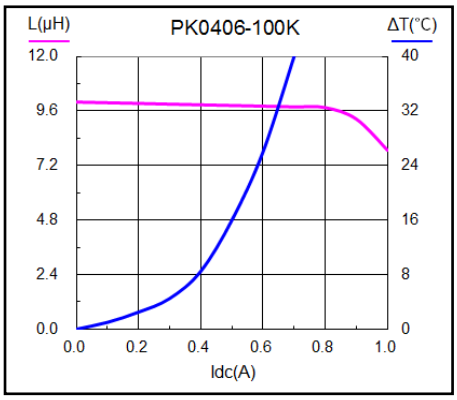
※ Special remind：Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.
特别提醒：线路设计，组件布局，印刷线路板(PWB)尺寸及厚度，散热系统等均会影响产品温度。请务必在最终应用时，验证产品发热状况。

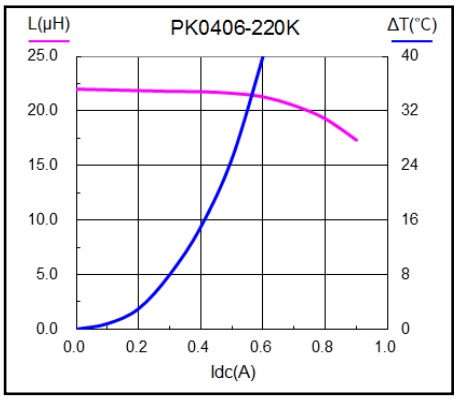
6 Saturation current VS temperature rise current curve
饱和电流 VS 温升电流曲线

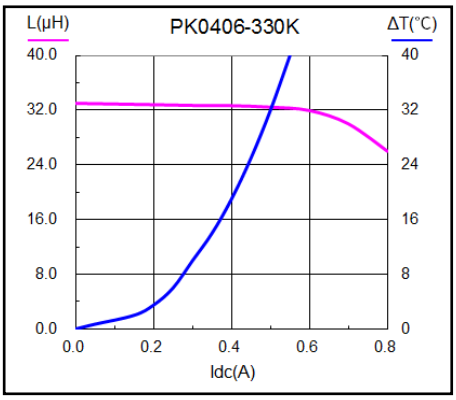


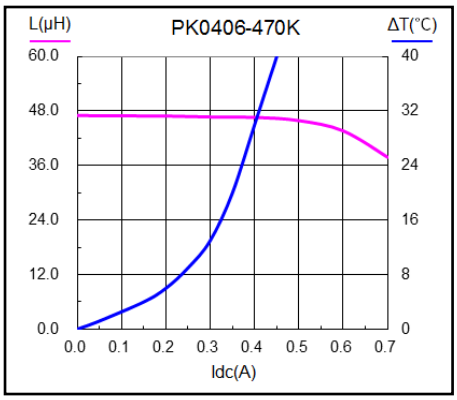


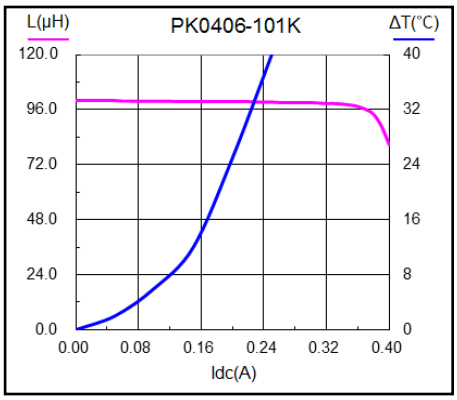


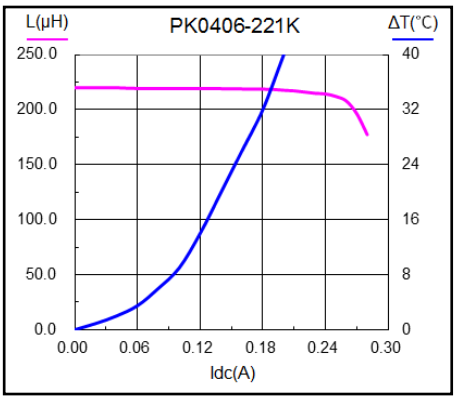


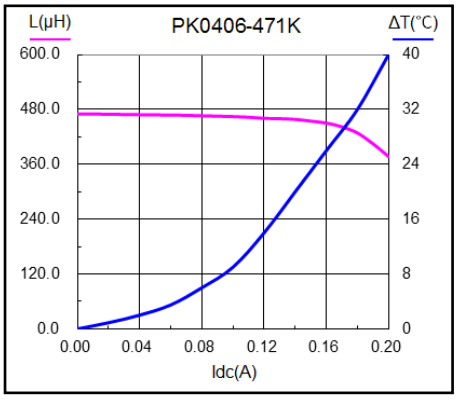


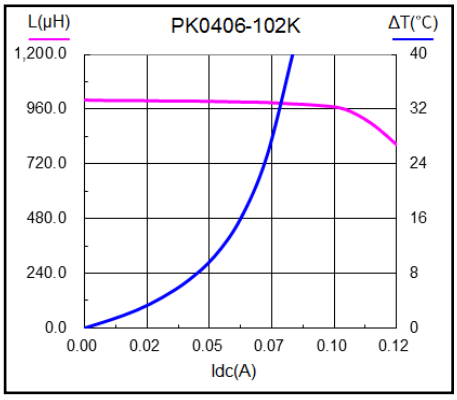


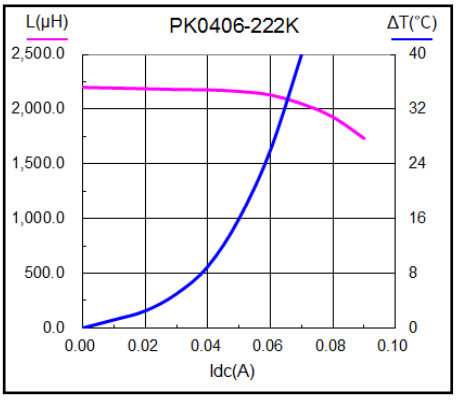


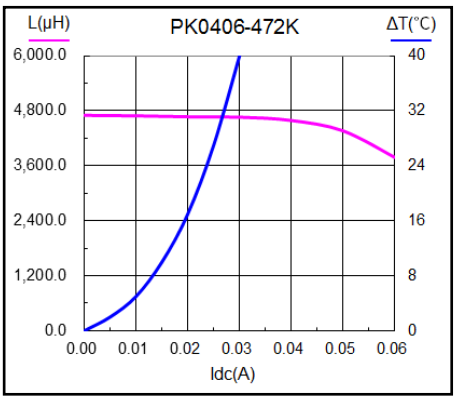


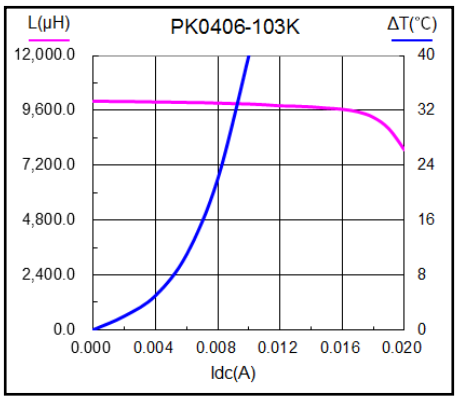









L(μH)
PK0406-472K
ΔT(℃)
6,000.0
4,800.0
3,600.0
2,400.0
1,200.0
0.0
40
32
24
16
8
0
0.00 0.01 0.02 0.03 0.04 0.05 0.06
Idc(A)


L(μH)
PK0406-103K
ΔT(℃)
12,000.0
9,600.0
7,200.0
4,800.0
2,400.0
0.0
40
32
24
16
8
0
0.000 0.004 0.008 0.012 0.016 0.020
Idc(A)