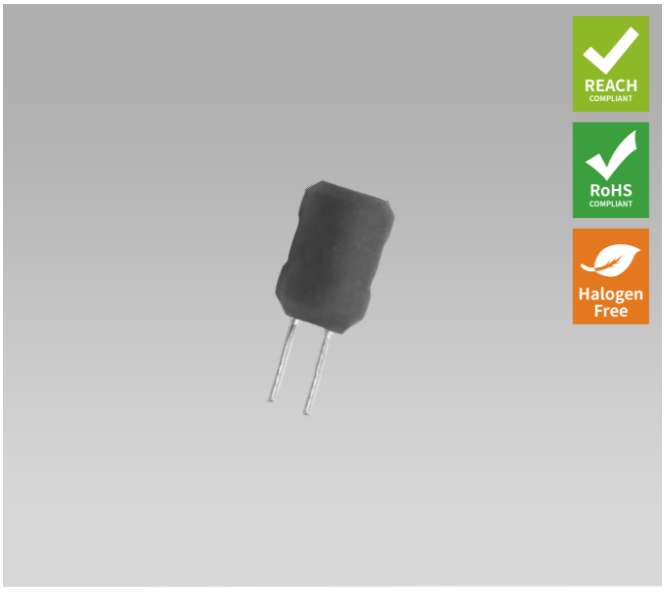
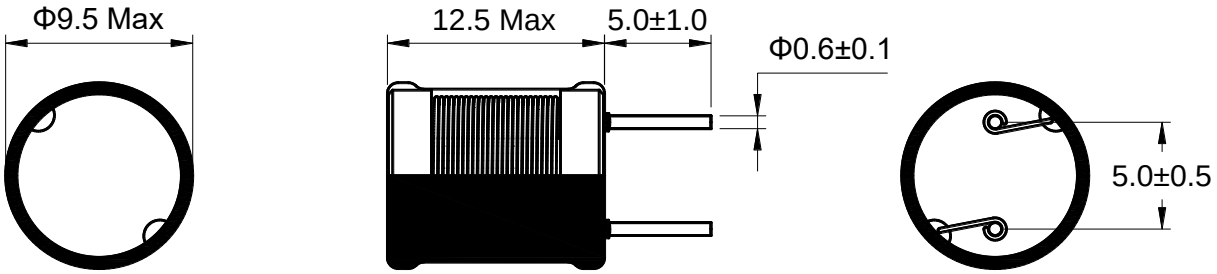


Outline:
产品概要

- 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)

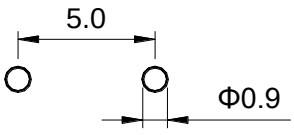
1 Appearance and Dimensions (mm)
外形尺寸



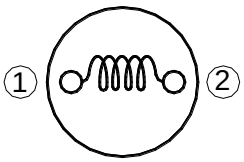
2 Marking
印字标识

※ 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



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	Typical	Typical
PK0810-1R0M	1.00 ±20%	5.50	6.60	10.5	9.49
PK0810-2R2M	2.20 ±20%	8.10	9.72	7.20	7.82
PK0810-3R3M	3.30 ±20%	10.5	12.6	5.80	6.87
PK0810-4R7M	4.70 ±20%	12.5	15.0	5.00	6.29
PK0810-6R8M	6.80 ±20%	13.9	16.7	4.40	5.96
PK0810-100K	10.0 ±10%	20.4	24.5	3.70	4.93
PK0810-120K	12.0 ±10%	23.2	27.9	3.20	4.62
PK0810-150K	15.0 ±10%	25.9	31.1	2.90	4.37
PK0810-180K	18.0 ±10%	29.7	35.6	2.80	4.08
PK0810-220K	22.0 ±10%	36.6	43.9	2.45	3.68
PK0810-270K	27.0 ±10%	44.0	52.8	2.20	3.42
PK0810-330K	33.0 ±10%	47.5	57.0	2.05	3.22
PK0810-390K	39.0 ±10%	61.7	74.0	1.85	2.79
PK0810-470K	47.0 ±10%	70.7	84.8	1.60	2.61
PK0810-560K	56.0 ±10%	92.0	110	1.54	2.36
PK0810-680K	68.0 ±10%	103	124	1.36	2.19
PK0810-820K	82.0 ±10%	133	160	1.30	1.92
PK0810-101K	100 ±10%	160	192	1.15	1.77
PK0810-121K	120 ±10%	181	217	1.10	1.65
PK0810-151K	150 ±10%	210	252	0.95	1.55
PK0810-181K	180 ±10%	268	322	0.87	1.36
PK0810-221K	220 ±10%	311	373	0.80	1.26
PK0810-271K	270 ±10%	386	463	0.67	1.13
PK0810-331K	330 ±10%	441	529	0.64	1.07
PK0810-391K	390 ±10%	534	641	0.59	0.96
PK0810-471K	470 ±10%	668	802	0.53	0.85
PK0810-561K	560 ±10%	788	946	0.49	0.76
PK0810-681K	680 ±10%	1,046	1,255	0.47	0.66
PK0810-821K	820 ±10%	1,282	1,538	0.39	0.57
PK0810-102K	1,000 ±10%	1,596	1,915	0.37	0.51
PK0810-222K	2,200±10%	3,080	3,696	0.25	0.37
PK0810-472K	4,700±10%	6,400	7,680	0.19	0.26
PK0810-103K	10,000±10%	14.400	17,200	0.13	0.17

■ 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。

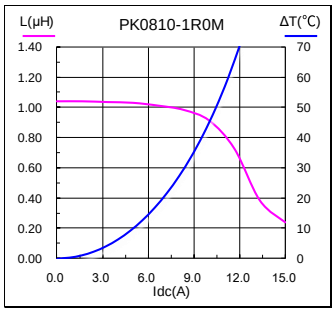
※1 Inductance measure condition at 1kHz,0.25V.
电感测试条件为 1kHz,0.25V。

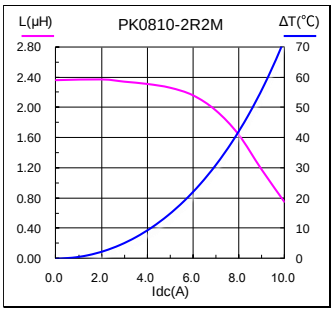
※2 Saturation current：the value of DC current when the inductance decrease 20% of its initial value.
饱和电流：电感值下降其初始值的 20%时所加载的直流电流值。

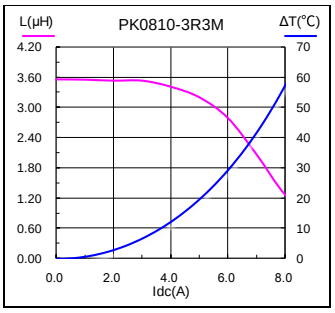
※3 Temperature rise current：the actual value of DC current when the temperature rise is ΔT40℃(Ta=25℃).
温升电流：使产品温度上升到 ΔT40℃时所加载的实际直流电流值(Ta=25℃)。

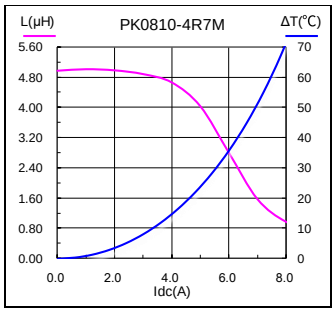
※ Special remind：Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.
特别提醒：线路设计，组件布局，印刷线路板(PCB)尺寸及厚度，散热系统等均会影响产品温度。请务必在最终应用时，验证产品发热状况。

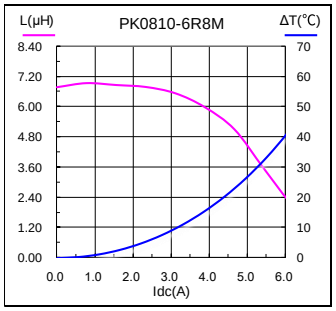
6 Saturation Current vs Temperature Rise Current Curve
饱和电流 vs 温升电流曲线

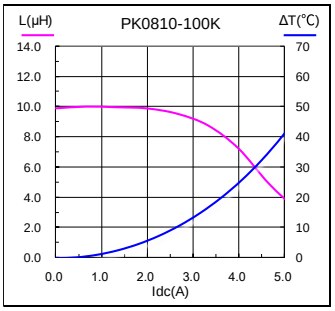


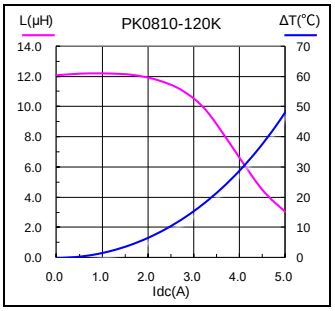


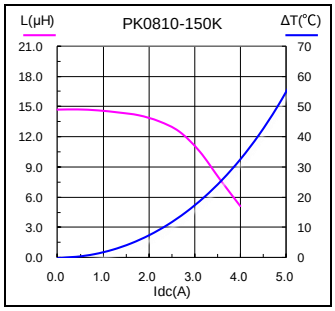


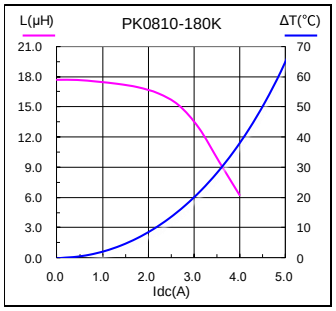


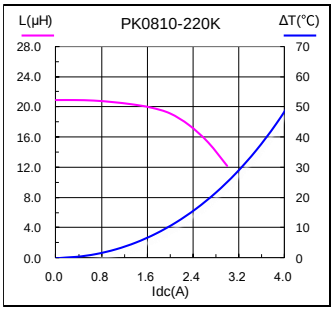


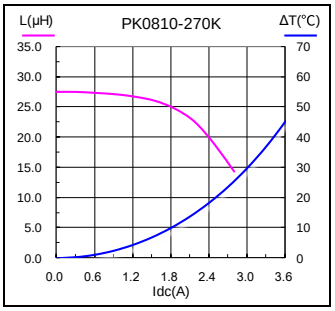


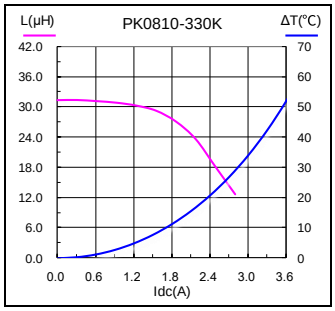


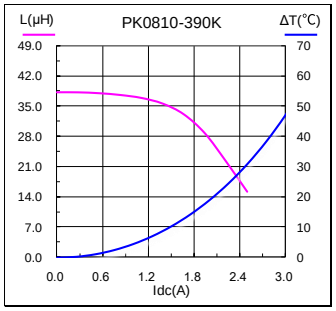


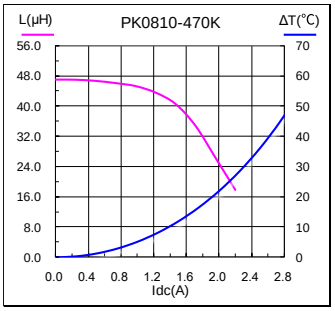


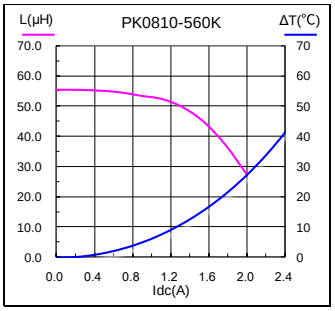


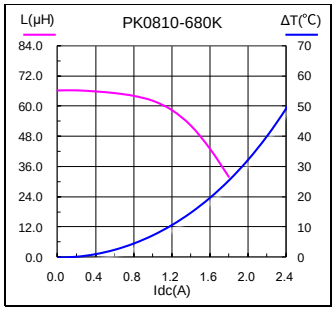


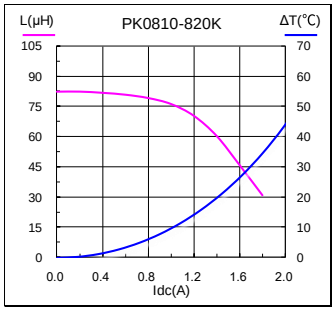


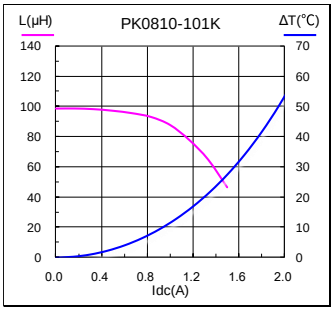


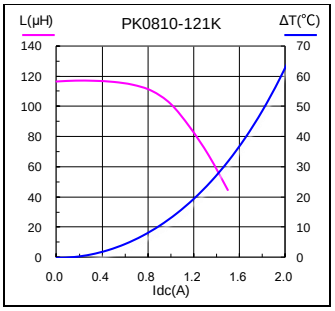


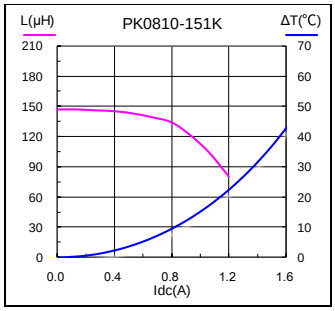


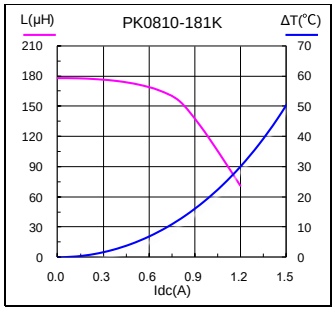


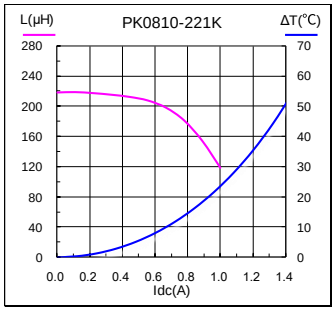


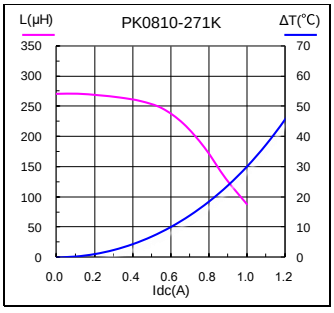


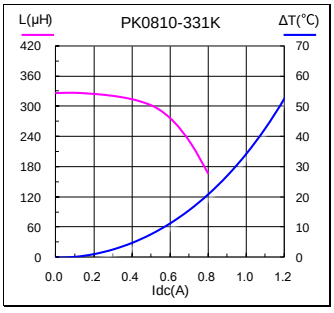


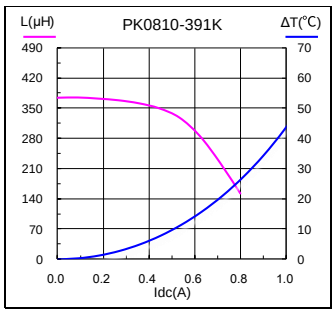


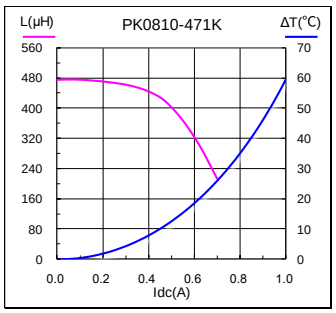

L(μH)
PK0810-181K
ΔT(℃)
Idc(A)

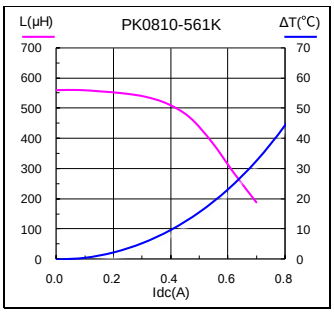

L(μH)
PK0810-221K
ΔT(℃)
Idc(A)

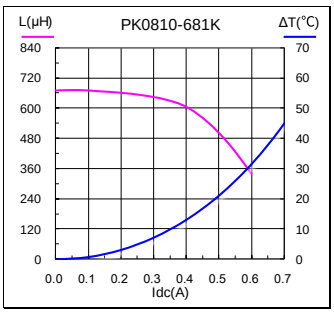

L(μH)
PK0810-271K
ΔT(℃)
Idc(A)

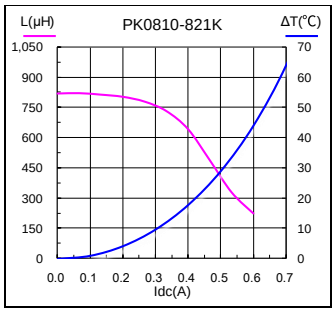

L(μH)
PK0810-331K
ΔT(℃)
Idc(A)

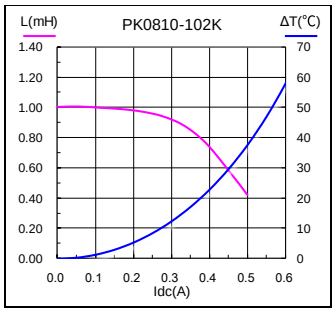

L(μH)
PK0810-391K
ΔT(℃)
Idc(A)

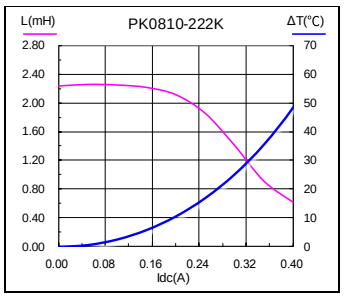

L(μH)
PK0810-471K
ΔT(℃)
Idc(A)

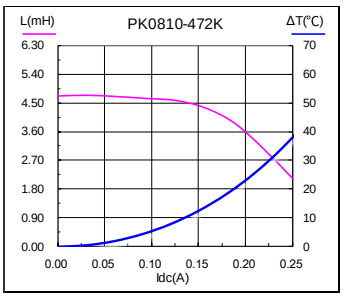

L(μH)
PK0810-561K
ΔT(℃)
Idc(A)

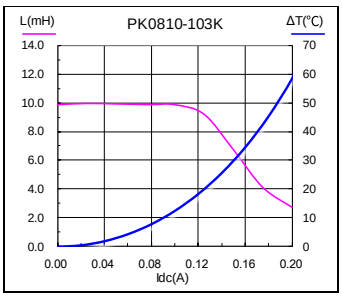

L(μH)
PK0810-681K
ΔT(℃)
Idc(A)


L(μH)
PK0810-821K
ΔT(℃)
Idc(A)


L(mH)
PK0810-102K
ΔT(℃)
Idc(A)

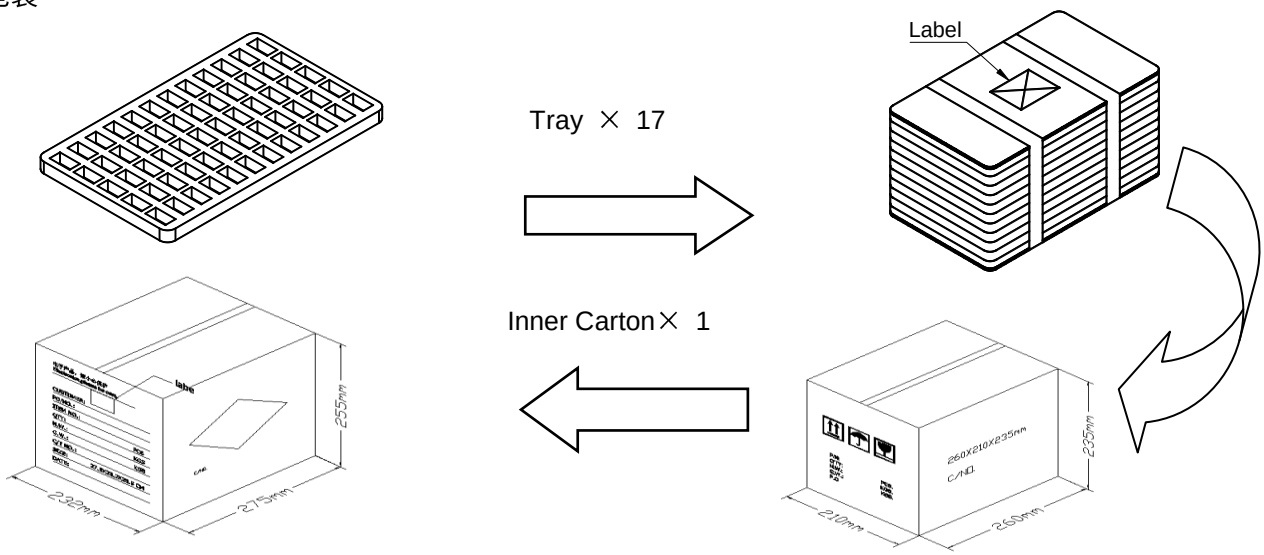

L(mH)
PK0810-222K
ΔT(℃)
Idc(A)


L(mH)
PK0810-472K
ΔT(℃)
Idc(A)


L(mH)
PK0810-103K
ΔT(℃)
Idc(A)

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：260×210×235mm
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
PK0810	120pcs	(120×17) = 2040pcs	(2040×1) = 2040pcs

7.3 Label Making
标签标识

The following items will be marked on the reel of product label and shipping label.
以下项目将明确标识于产品卷盘标签以及运输标签上。

Production Label
产品标签
- ■ Packing No.
  包装流水号
- ■ Quantity
  数 量
- ■Shipment Date
  出货日期
- ■ Part No.
  产品型号
- ■Customer Part No.
  客户型号
- ■ Customer Po No.
  客户订单号

Shipping Label
运输标签
- ■ Packing No.
  包装流水号
- ■ Quantity
  数 量
- ■Shipment Date
  出货日期
- ■ Part No.
  产品型号
- ■Customer Part No.
  客户型号
- ■ Customer Po No.
  客户订单号