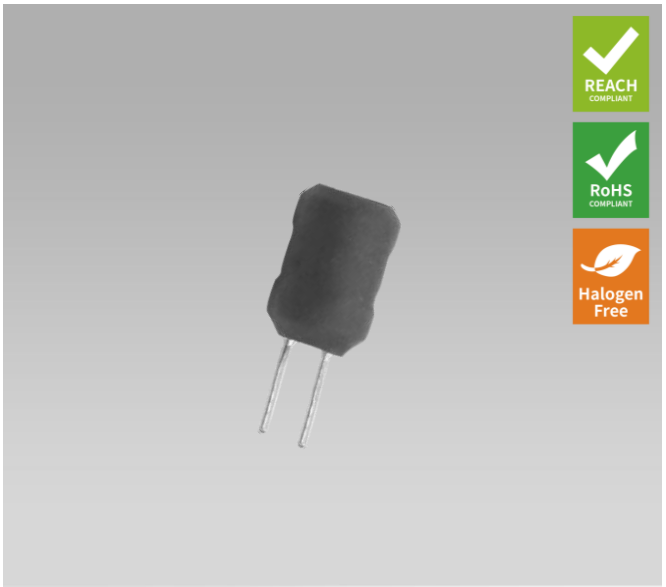
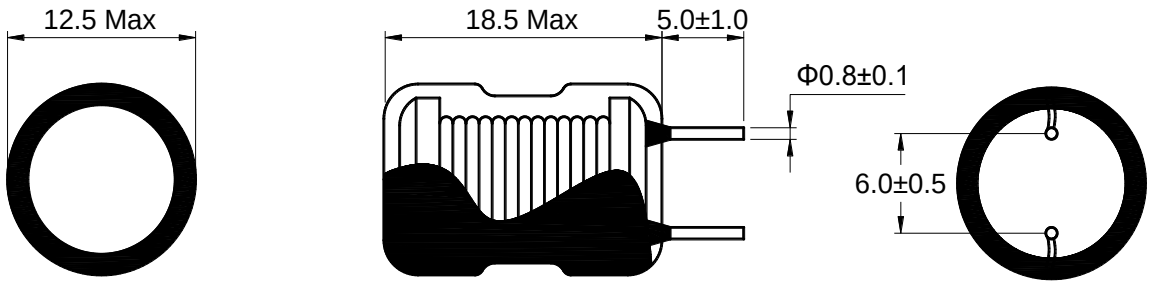


Outline:
产品概要

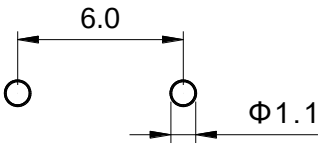
- High reliability, high consistency inductance.
  高可靠性，电感值一致性好。
- Lead free product, RoHS compliant.
  无铅产品，符合 RoHS 指令。
- Core is encapsulated by UL heat shrink tube to provide excellent mechanic and environmental protection.
  整体包覆在 UL 热缩套管内，提供极佳的机械和环境保护。
- Widely used in power supply, DC-DC converter, 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

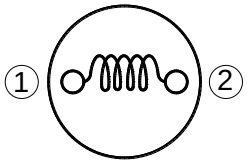


2 Marking
印字标识

3 Reference Hole pattern (mm)
参考焊孔尺寸



4 Schematic
原理图



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

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 Typical	D.C.R. (mΩ) 直流电阻 Max	Saturation current (A) 饱和电流 ※2 Typical	Temperature rise current (A) 温升电流 ※3 Typical
PK1016-100K	10.0	21.7	26.1	12.9	5.87
PK1016-120K	12.0	25.0	30.0	11.8	5.30
PK1016-150K	15.0	27.8	33.3	10.0	4.94
PK1016-180K	18.0	30.9	37.1	9.60	4.75
PK1016-220K	22.0	33.7	40.5	8.40	4.46
PK1016-270K	27.0	38.2	45.9	7.80	4.29
PK1016-330K	33.0	40.9	49.1	7.00	4.09
PK1016-390K	39.0	45.9	55.0	6.30	3.90
PK1016-470K	47.0	51.3	61.6	5.90	3.70
PK1016-560K	56.0	66.2	79.5	5.60	3.30
PK1016-680K	68.0	74.3	89.2	4.90	3.10
PK1016-820K	82.0	82.5	99.0	4.50	2.90
PK1016-101K	100	108	130	4.00	2.55
PK1016-121K	120	143	172	3.50	2.23
PK1016-151K	150	165	198	3.30	2.06
PK1016-181K	180	181	218	2.90	1.95
PK1016-221K	220	246	295	2.60	1.69
PK1016-271K	270	283	340	2.40	1.58
PK1016-331K	330	353	423	2.20	1.40
PK1016-391K	390	396	475	2.00	1.33
PK1016-471K	470	478	573	1.80	1.21
PK1016-561K	560	533	640	1.70	1.13
PK1016-681K	680	693	832	1.55	1.02
PK1016-821K	820	862	1,035	1.45	0.91
PK1016-102K	1,000	983	1,179	1.35	0.82

■ 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。

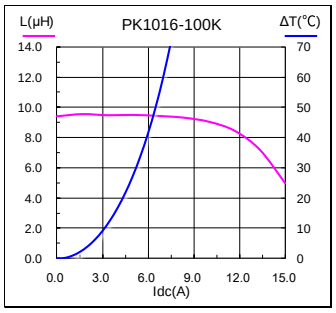
※1 Inductance measure condition at 1kHz,0.25V.
电感测试条件为 1kHz,0.25V。

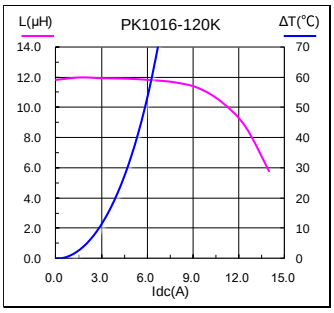
※2 Saturation current：the value of DC current when the inductance decrease 20% of its initial value.
饱和电流：电感值下降其初始值的 20%时所加载的直流电流值。

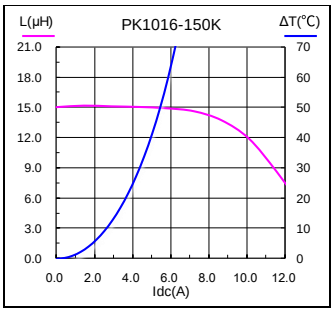
※3 Temperature rise current：the actual value of DC current when the temperature rise is ΔT40℃(Ta=25℃).
温升电流：使产品温度上升到 ΔT40℃时所加载的实际直流电流值(Ta=25℃)。

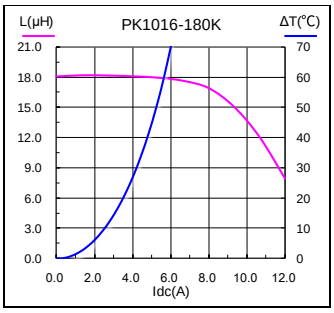
※ Special remind：Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.
特别提醒：线路设计，组件布局，印刷线路板(PCB)尺寸及厚度，散热系统等均会影响产品温度。请务必在最终应用时，验证产品发热状况。

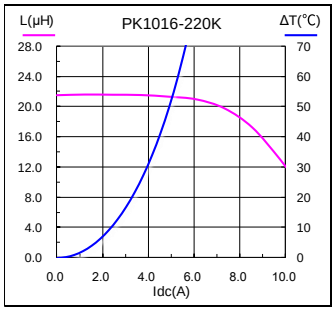
6 Saturation Current vs Temperature Rise Current Curve
饱和电流 vs 温升电流曲线

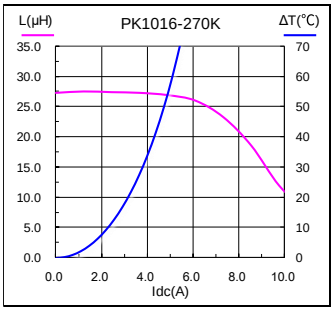


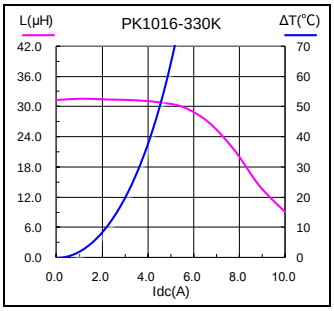


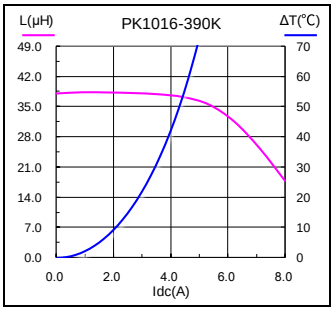


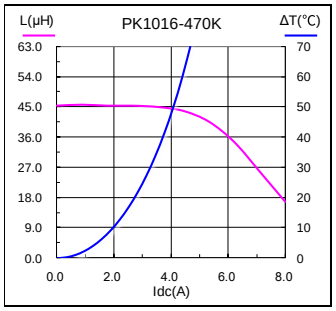


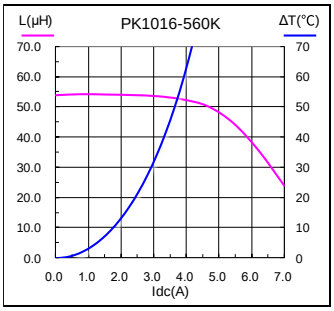


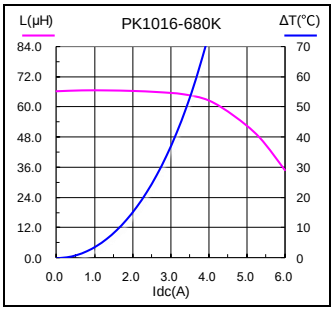


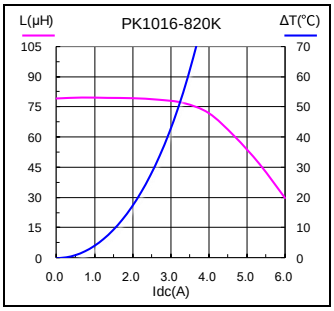


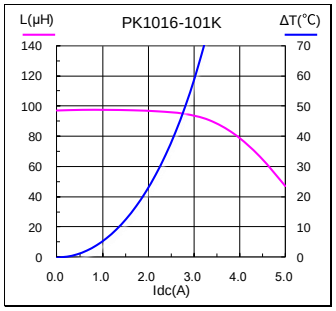


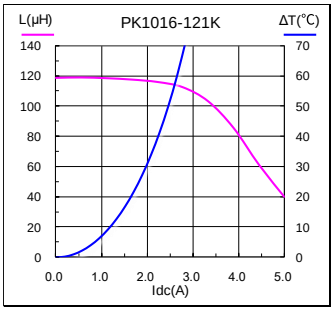


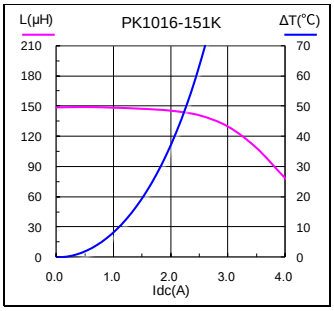


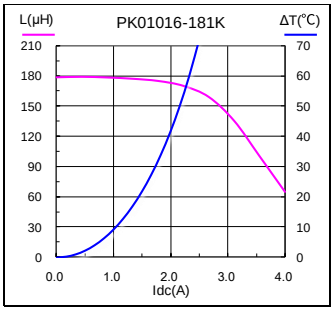


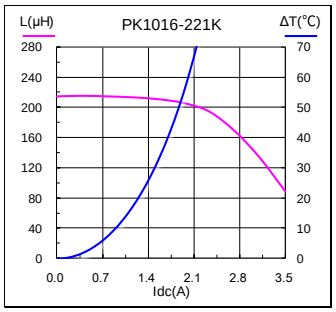


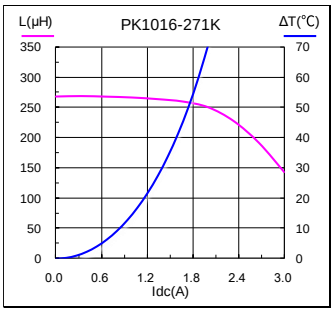


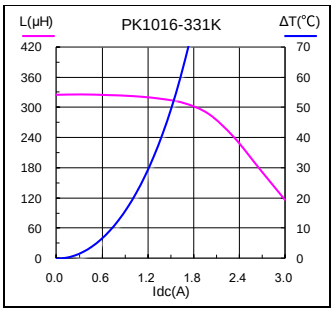


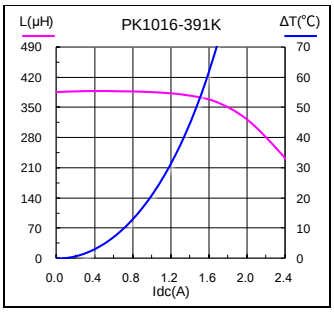


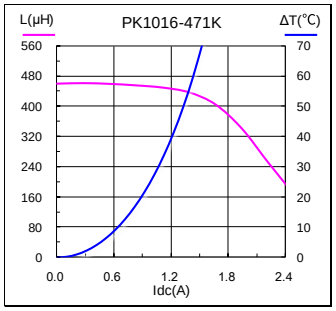


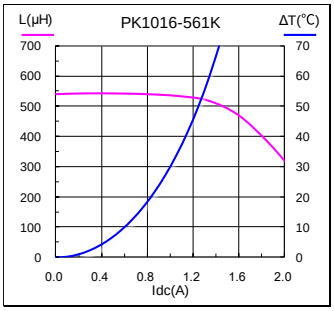


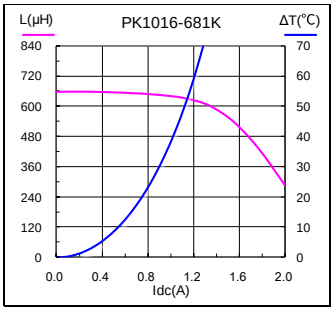


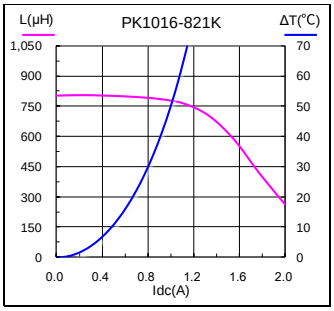


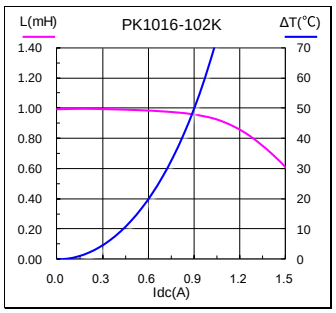



L(μH)
PK1016-471K
ΔT(℃)
560 480 400 320 240 160 80 0
70 60 50 40 30 20 10 0
0.0 0.6 1.2 1.8 2.4
Idc(A)


L(μH)
PK1016-561K
ΔT(℃)
700 600 500 400 300 200 100 0
70 60 50 40 30 20 10 0
0.0 0.4 0.8 1.2 1.6 2.0
Idc(A)

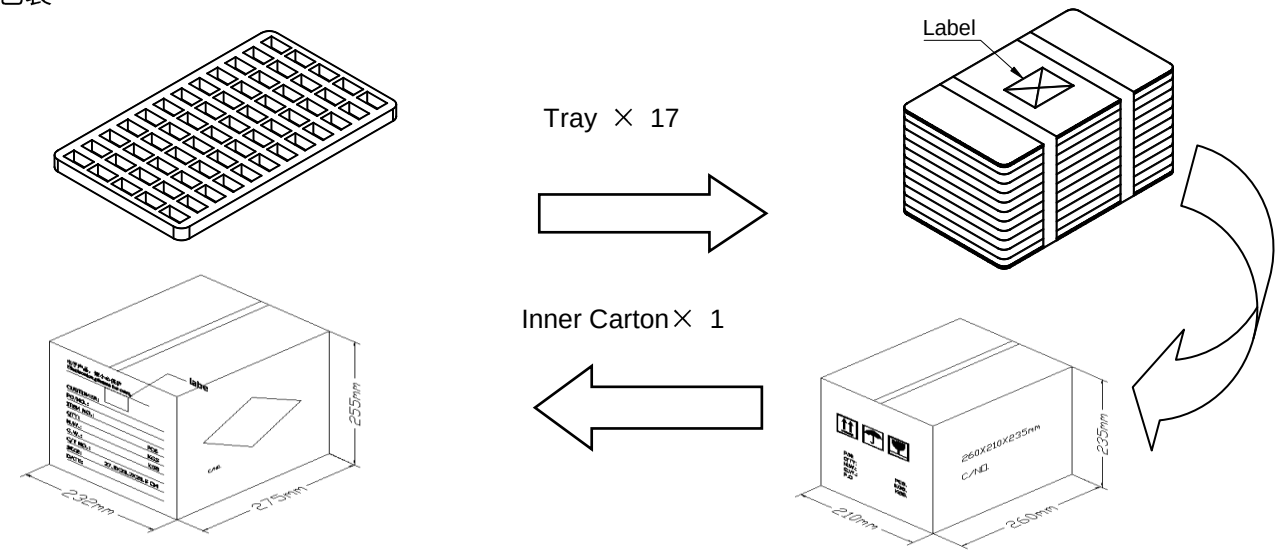

L(μH)
PK1016-681K
ΔT(℃)
840 720 600 480 360 240 120 0
70 60 50 40 30 20 10 0
0.0 0.4 0.8 1.2 1.6 2.0
Idc(A)


L(μH)
PK1016-821K
ΔT(℃)
1,050 900 750 600 450 300 150 0
70 60 50 40 30 20 10 0
0.0 0.4 0.8 1.2 1.6 2.0
Idc(A)


L(mH)
PK1016-102K
ΔT(℃)
1.40 1.20 1.00 0.80 0.60 0.40 0.20 0.00
70 60 50 40 30 20 10 0
0.0 0.3 0.6 0.9 1.2 1.5
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
PK1016	80pcs	(80×17) = 1360pcs	(1360×1) = 1360pcs

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