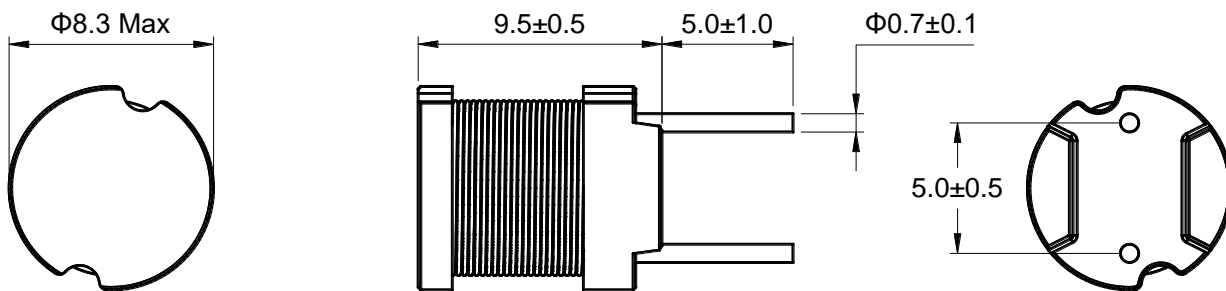


Outline: 产品概要

- High reliability, high consistency inductance.
高可靠性，电感值一致性好。
- High saturation current
饱和电流高。
- Lead free product, RoHS compliant.
无铅产品，符合 RoHS 指令。
- 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

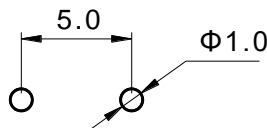


2 Marking 印字标识

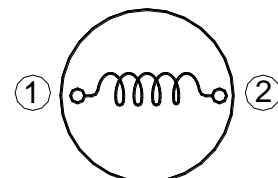


※ Marking is available if needed.
如果需要，产品可印字。

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	Typical	Max	Typical
PKS0810-1R0N	1.00 ±30%	8.20	9.84	18.0	14.4	7.76
PKS0810-2R2M	2.20 ±20%	12.8	15.4	12.4	9.92	6.21
PKS0810-3R3M	3.30 ±20%	15.6	18.7	9.90	7.92	5.62
PKS0810-4R7M	4.70 ±20%	19.0	22.8	8.40	6.72	5.10
PKS0810-6R8M	6.80 ±20%	24.2	29.0	6.80	5.44	4.52
PKS0810-100K	10.0 ±10%	29.6	35.5	5.60	4.48	4.08
PKS0810-150K	15.0 ±10%	37.5	45.0	4.70	3.76	3.63
PKS0810-180K	18.0 ±10%	42.0	50.4	4.30	3.44	3.43
PKS0810-220K	22.0 ±10%	45.8	55.0	3.80	3.04	3.28
PKS0810-330K	33.0 ±10%	59.5	71.4	3.30	2.64	2.88
PKS0810-470K	47.0 ±10%	89.7	108	2.75	2.20	2.35
PKS0810-101K	100 ±10%	199	239	1.82	1.46	1.57
PKS0810-151K	150 ±10%	286	343	1.40	1.12	1.31
PKS0810-181K	180 ±10%	352	422	1.23	0.98	1.18
PKS0810-221K	220 ±10%	393	472	1.20	0.96	1.12
PKS0810-331K	330 ±10%	592	710	1.02	0.82	0.84
PKS0810-471K	470 ±10%	890	1,068	0.85	0.68	0.69
PKS0810-681K	680 ±10%	1,300	1,560	0.71	0.57	0.57
PKS0810-102J	1,000 ±5%	1,900	2,280	0.59	0.47	0.47
PKS0810-122J	1,200 ±5%	2,150	2,580	0.49	0.39	0.44
PKS0810-152J	1,500 ±5%	2,690	3,228	0.45	0.36	0.40
PKS0810-222J	2,200 ±5%	4,185	5,022	0.39	0.31	0.32
PKS0810-332J	3,300 ±5%	6,630	7,956	0.32	0.26	0.25
PKS0810-392J	3,900 ±5%	7,418	8,902	0.30	0.24	0.24
PKS0810-472J	4,700 ±5%	8,400	10,080	0.28	0.22	0.22
PKS0810-103J	10,000 ±5%	20,100	24,120	0.17	0.14	0.14
PKS0810-223J	22,000 ±5%	46,400	55,680	0.15	0.12	0.09

■ 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 100kHz,5mA.

电感测试条件为 100kHz,5mA。

※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°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)。

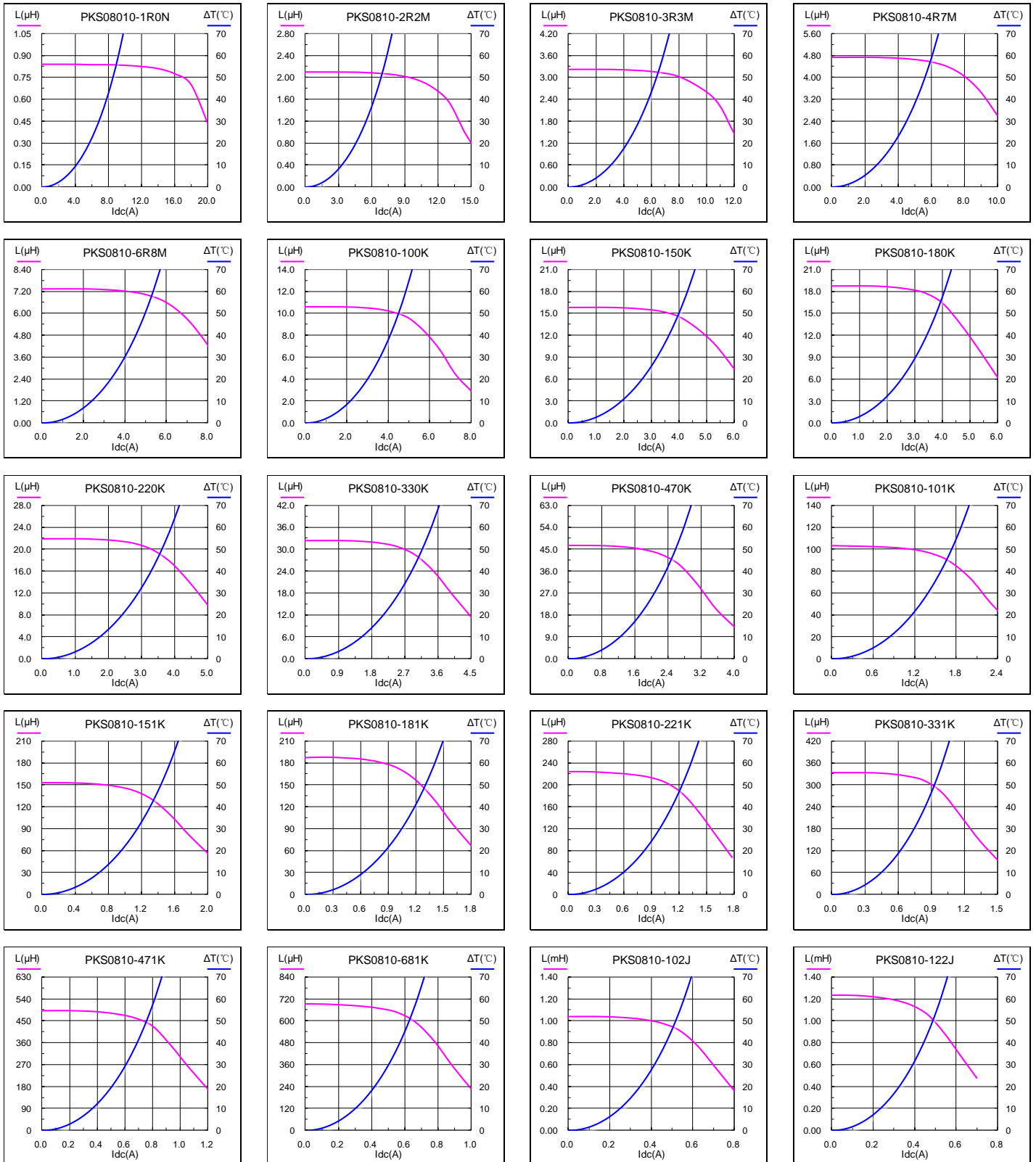
※ Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc.

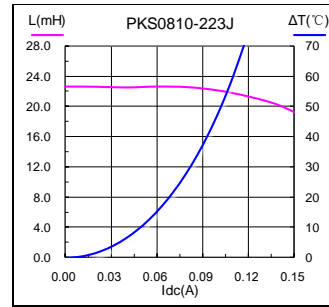
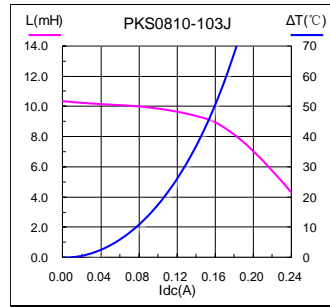
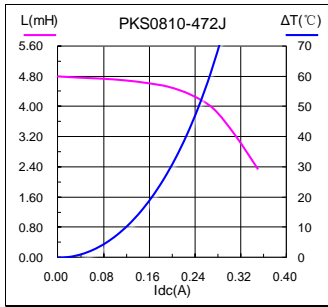
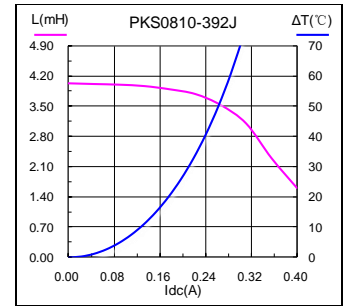
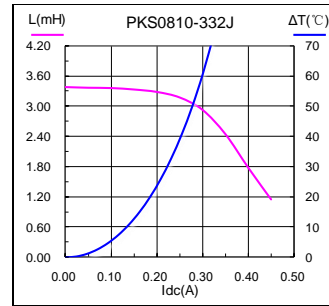
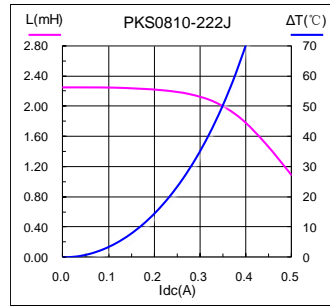
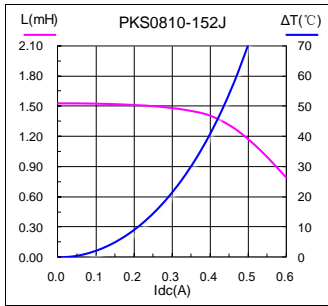
all will affect the product temperature. Please verify the product temperature in the final application.

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



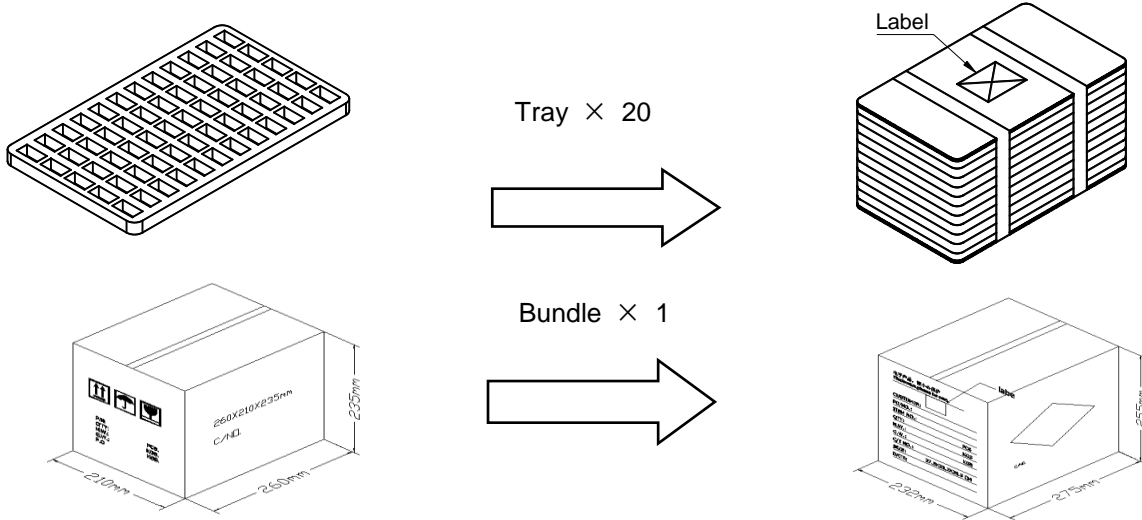


7 Packing specification

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
PKS0810	140pcs	(140×20) = 2800pcs	(2800×1) = 2800pcs

7.3 Label making

标签标识

The following items will be marked on the bag of product label and shipping label.

以下项目将明确标识于产品包装袋标签以及运输标签上。

Production Label 产品标签
■ Part No. 产品型号
■ Electrical Information 产品电性信息
■ Quantity 数量
■ Packing No. 包装流水号

Shipping Label 运输标签
■ Customer Name 客户名称
■ Customer Part No. 客户型号
■ Supplier Part No. 供应商型号
■ Supplier Name 供应商名称
■ Country of origin 产品产地