

翠鸟系列电流互感器与传统电流互感器对比表

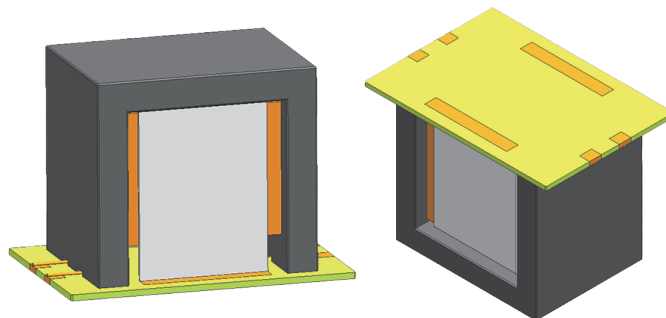
Comparison table of traditional and kingfisher

对比项目 Contrast items	翠鸟系列电流互感器 Kingfisher current transformer	传统系列电流互感器 Traditional current transformer
图片 Picture		
骨架 bobbin	无 None	有 Yes
产品高度 Product height	4.8mm	5mm
横向尺寸 Horizontal dimension	5.1mm	6.5mm
EMI	绕制结构紧凑，分布参数小 抗电磁干扰性强 The winding system has compact structure, small distribution parameters and strong anti-electromagnetic interference	分布参数大， 抗电磁干扰性弱 The distribution parameter is large and the anti-electromagnetic interference is weak
管脚平整度 PIN flatness	无需修整管脚 No need to trim pin	人工修整管脚 Artificial trimming pin
客户后续安装 Customer follow-up installation	顶部平整，更适合SMT自动化 Flat Top for SMT automation	需人工上料 Manual feeding is required
产品一致性 Product consistency	产品一致性高 High product consistency	产品一致性低 High product consistency
自动化 automation	适合全自动化生产 所用人工工时少 Suitable for fully automated production of less manual hours	半自动化生产 所用人工工时多 Semi-automatic production uses more man-hours
成本 Cost	无骨架成本，无需修整管脚 所用人工工时少，成本低 The cost has no skeleton cost, no need to repair the foot manual hours less, the cost is low	有骨架成本，人工修整管脚 所用人工工时多，成本高 Has the skeleton cost, the artificial repair pin uses the artificial labor hour to be many, the cost is high

■ 特点

Characteristics

- 智能化、自动化批量生产
Intelligent, automated mass production
- 轻量化、小体积、高效率
Lightweight, small size, high efficiency
- 性能稳定、质量可靠
Stable performance and reliable quality



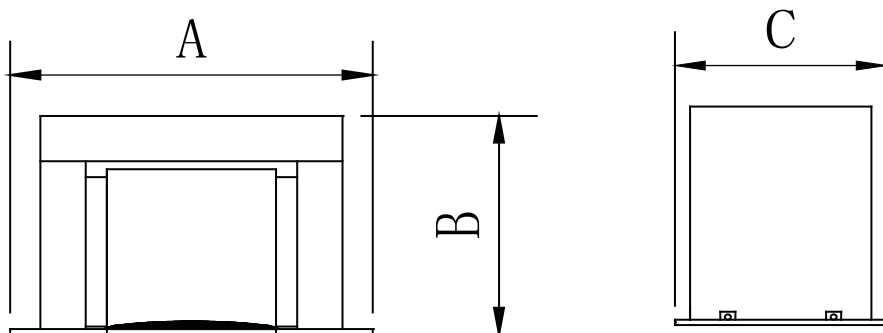
■ 系列产品参数

Series product parameters

序号	型号	封装尺寸 (mm)			电参数		介质耐压
		A(mm)	B (mm)	C (mm)	匝比	电流 (A)	
1	RDCNW4.4-20/1/20	7.5	5.1	4.8	1:20	20	绕组间, 绕组与磁材 DC1KV,1mA 10Sec
2	RDCNW4.4-20/1/30	7.5	5.1	4.8	1:30	20	
3	RDCNW4.4-20/1/40	7.5	5.1	4.8	1:40	20	
4	RDCNW4.4-20/1/50	7.5	5.1	4.8	1:50	20	
5	RDCNW4.4-20/1/60	7.5	5.1	4.8	1:60	20	
6	RDCNW4.4-20/1/70	7.5	5.1	4.8	1:70	20	
7	RDCNW7.2-10/1/100	10.5	7	8.2	1:100	10	
8	RDCNW7.2-20/1/150	10.5	7	8.2	1:150	20	
9	RDCNW7.2-20/1/180	10.5	7	8.2	1:180	20	
10	RDCNW7.2-20/1/200	10.5	7	8.2	1:200	20	
11	RDCNW7.2-20/1/300	10.5	7	8.2	1:300	20	
12	RDCNW14.2-50/1/100	18.5	13.3	12.5	1:100	50	
13	RDCNW14.2-40/1/500	18.5	13.3	12.5	1:500	40	
14	RDCNW14.2-40/1/600	18.5	13.3	12.5	1:600	40	
15	RDCNW14.2-40/1/800	18.5	13.3	12.5	1:800	40	

■ 封装图

Package drawing



■ 产品特性

Product characteristics

一、电流互感器的概念以及应用领域

The concept and application field of the current transformer

1. 概念： 电流互感器是一种电流变换装置，主要用于将大电流转换成小电流，以便于测量和监测。

Concept: The current transformer is a current conversion device, mainly used to convert large current into small current to facilitate measurement and monitoring.

2. 应用领域： 电流互感器的应用领域包括电力系统、工业生产、精密电子仪器测试。

Application areas: Application areas of current transformers include power system, industrial production, and precision electronic instrument testing.

2.1 在电力系统中，电流互感器用于测量高电压和大电流，以及监测电网的稳定性。它们通常安装在变电站和配电室中，将大电流转换为低电流，以便于测量和监测。此外，电流互感器还可以用于检测电流泄漏和地线故障，从而避免电力系统中的安全事故。

In power systems, current transformers are used to measure high voltage and large currents, as well as to monitor the stability of the grid. They are usually installed in substations and distribution rooms to convert high current to low current for easy measurement and monitoring. In addition, the current transformer can also be used to detect current leakage and ground wire faults, so as to avoid safety accidents in the power system.

2.2 在工业生产中，电流互感器可以用于测量电动机、变压器和电子设备等的电流。通过监测电流，可以实现对相关设备的负载和功率的监测，从而实现对设备的运行状态进行监测和控制，以及保护等。

In industrial production, current transformers can be used to measure the current of electric motors, transformers, and electronic equipment, etc. By monitoring the current, the load and power of the relevant equipment can be monitored, so as to realize the monitoring and control of the operating state of the equipment, and protection.

2.3 在精密电子仪器的测试中，电流互感器可以用于检测和测量微弱的电流信号。通过使用电流互感器，可以实现对电流信号的高精度从而保证测试结果的准确性。

In the testing of precision electronic instruments, current transformers can be used to detect and measure weak current signals. By using the current transformer, the high accuracy of the current signal can be realized to ensure the accuracy of the test results.

二、翠鸟无骨架电流互感器的设计理念

Design concept of no-skeleton current transformer

1. 为客户争取更大的使用空间，产品同等电压、电流的环境下减小互感器体积。

For customers to use more space, the same voltage, current environment to reduce the volume of the transformer.

2. 可以根据客户板子空间需求进行私人定制减少了骨架的开模费用。

It can be customized according to the customer's board space needs to reduce the cost of the skeleton.

3. 磁芯采用菱角倒钝和表面喷涂工艺保证客户的耐压需求。

The magnetic core adopts water chestnut and surface spraying process to ensure the customer's pressure demand.

4. 自动化可操作性强、生产效率高降低产品成本。

Automation is strong operability, high production efficiency to reduce product costs.

5. 本产品底板焊盘采用的是金属包边工艺，有利于焊接时爬锡保障了产品的焊接牢固性。

The bottom plate welding pad of this product adopts the metal wrapping process, which is conducive to the welding tin climbing to ensure the welding firmness of the product.