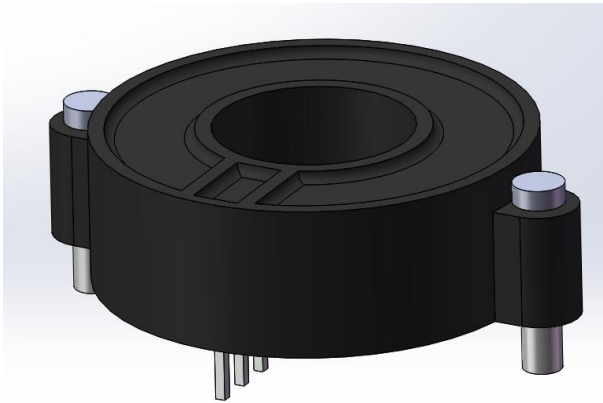




## WCS01

$I_p=500A$



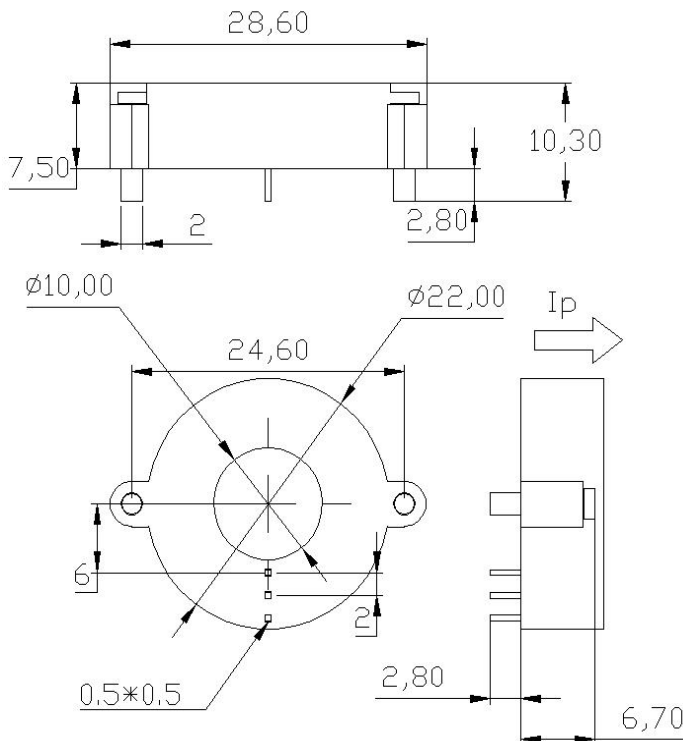
### 产品特点 Products Features

安装方便  
Easy mounting  
体积小, 节省空间  
Small size and space saving  
无插入损耗  
No insertion losses  
抗干扰能力强  
High immunity to external interference

### 应用领域 Applications

交流变频驱动器  
AC variable speed drives  
直流电机驱动静态转换器  
Static converters for DC motor drives  
通讯电源  
Battery supplied applications  
不间断电源 (UPS)  
Uninterruptible Power Supplies  
开关电源 (SMPS)  
SWITCHED Mode Power Supplies  
电动汽车  
EV Auto

### 机械尺寸 Mechanical dimension



### 机械特性

#### Mechanical characteristics

一般公差  
General tolerance  
 $\pm 0.5 \text{ mm}$

其它公差执行  
Other tolerance execution  
GB/T 1804-2000-M

固定孔尺寸  
Fixing hole size  
 $\phi 2.0 \text{ mm}$

连接器  
Connection of secondary  
0.5\*0.5mm

建议焊接温度  
Recommended wave soldering temperature  
 $265^\circ\text{C} \pm 5^\circ\text{C}$

### 注意 Remarks

错误的接线可能导致传感器损坏。

The false wiring may result in the damage of the sensor.

$I_p$ 方向与产品箭头方向一致时, 输出电压为正极。

$V_{OUT}$  is positive when  $I_p$  flows in the direction of the arrow.

当初级导体完全充满初级孔径时动态表现 ( $di/dt$ 和响应时间) 为最佳效果。

Dynamic performances ( $di/dt$  and response time) are best with a single bar completely filling the primary hole.

初级导体的温度不应超过 $100^\circ\text{C}$ 。

Temperature of the primary conductor should not exceed  $100^\circ\text{C}$ .

**电气参数Electrical data WCS01-500A**除非另有说明，否则环境参数均为@  $T_A = 25^{\circ}\text{C}$ ,  $R_L = 10\text{ k}\Omega$ 

型号 Type	WCS01-500A
额定测量电流 $I_P$ Rated input	$\pm 500\text{A}$
测量范围 $I_{PM}$ Measure range	$\pm 550\text{A}$
额定输出电压 $V_{OUT}$ Rated output voltage	$2.5\text{V} \pm 2\text{V}$
零点失调电压 $V_0$ Offset voltage	$2.5\text{V} \pm 10\text{mV}$
电源电压 $V_C$ Supply voltage	+5VDC ( $\pm 5\%$ )
负载电阻 $R_M$ Load resistance	$\geq 10\text{K}\Omega$
线性度 $\epsilon_L$ Linearity	$\leq 0.5\%FS$
总体精度 $X$ Overall accuracy	$\pm 1\%FS$ (@ $T_A = 25^{\circ}\text{C}$ )
零点失调电压温漂 $V_{OUT}$ Offset voltage drift	$\pm 0.2\text{mV}/^{\circ}\text{C}$
幅度电压温度漂移 $V_{OUT}$ Amplitude voltage temperature drift	$\leq 0.05\%/^{\circ}\text{C}$
静态电流消耗 $I_C$ Current consumption	$\leq 20\text{mA}$
响应时间 $T_R$ @90% Response time	$< 5\mu\text{s}$
频带宽度 $BW$ Frequency bandwidth-3db	DC~120kHz
$di/dt$ 跟随精度 $di/dt$ accurately followed	$> 50\text{A}/\mu\text{s}$
绝缘耐压 $V_D$ Galvanic isolation	50Hz, 1min, 2KV
工作环境温度 $T_A$ Ambient operating temperature	$-40 \sim +125^{\circ}\text{C}$
储存环境温度 $T_s$ Ambient storage temperature	$-40 \sim +125^{\circ}\text{C}$
质量 $m$ Mass	$\approx 11\text{g}$
执行标准 Standards	JB/T 7490-2007

**定制Customized**

这是一个标准的产品，需要其他规格（测量电流、电源电压、输出电压、连接器、转换比率等）请联系我们。  
This is a standard model. For different versions ( $I_P$ , supply voltages, output voltages, connection of secondary, turns ratios...), please contact us.

**联系方式Contact information**

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