

## HD421, 符合DIN EN IEC 60751的铂电阻温度传感器

温度范围-70 °C 至 +850 °C

- 高达850°C的工作温度
- 宽温度范围内的高精度
- 高抗振性和高抗冲击性
- 优化的引脚适合于电阻焊和钎焊

HD 421 薄膜铂电阻温度传感器具有长期稳定性, 宽温度范围内的高精度和兼容性. HD421元件用于能源发电, 石油化工等行业的高温作业的监测. 原则上, 该产品也可用于汽车领域, 在这种情况下, 国巨将根据客户的需求, 检查是否能满足额外的要求 (如IMDS, PPAP).

标称阻值 $R_0$ [ $\Omega$ ]	公差等级	产品料号	包装方式
Pt100	F 0.6 (2B)	32208228	吸塑包装

标称电阻测量点距离传感器本体末端 4 mm

### 公差等级及温度范围

公差等级 F 0.6 (2B)                      -70 °C 至 +850 °C

说明:

公差等级 F 0.3 (B)                        -70 °C 至 +650 °C

公差等级 F 0.6 (2B)                        +650 °C 至 +850 °C

### 电阻温度系数

TCR = 3850 ppm/K

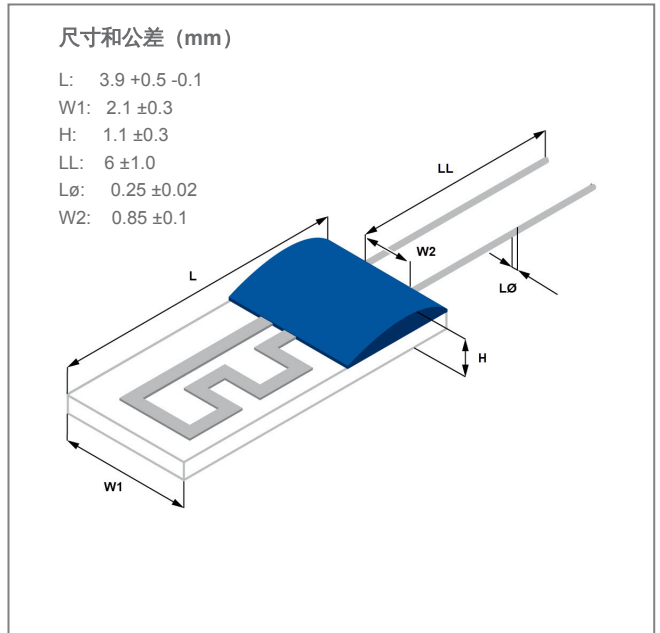
### 响应时间

水流 ( $v = 0.4$  m/s):                       $t_{0.5} = 0.05$  s  
 $t_{0.9} = 0.17$  s

气流 ( $v = 2$  m/s):                          $t_{0.5} = 3.3$  s  
 $t_{0.9} = 13$  s

### 工作电流

Pt100  $\Omega$ : -70 °C 至 20 °C max. 1 mA,  
 以上 20 °C max. 1 mA  
 (必须考虑自热影响)



图片仅供参考  
 固定盖板的颜色, 形状与外观可能有所不同

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### 长期稳定性

$R_0$  小于 DIN F 0.3 (B) 规定的在 850 °C 下 1000 小时后的阻值漂移  
 $R_0$  小于 DIN F 0.3 (B) 规定的在 650 °C 下 1000 小时后的阻值漂移  
(在通电情况下)

### 自热系数

0.2 K/mW 在 0 °C

### 绝缘阻抗

> 100 MΩ 在 20 °C  
> 2 MΩ 在 650 °C

### 抗振动性

根据安装情况

### 抗冲击特性

根据安装情况

### 连接技术

熔焊, 钎焊

### 引脚材质

铂金

### 引脚拉力

≥ 10 N

### 包装

吸塑包装

按要求提供其他包装形式

### 保质期

至少 12 个月 (原包装)

### 备注

其他公差, 电阻值和电线长度可根据要求提供.

由于随机取样测量, 可能会发生连接线弯曲 (称为 V 形). 这种弯曲是与批次相关的, 对铂测量电阻的功能没有影响.



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