

## SOT223, 符合 DIN EN IEC 60751 标准的封装型铂金温度传感器

温度范围 -50 °C 至 +150 °C

- 具有SOT223标准封装的铂电阻温度传感器
- 卓越的长期稳定性
- 高精度
- 高抗振性和高抗冲击性
- 适用于焊接的引脚

SOT223是一种封装在标准SOT外壳内的铂电阻温度传感器，具有优异的电阻和温度线性响应（符合DIN EN IEC 60751），互换性，长期稳定性和高精度的特点，为易于安装在电子组件上和实现PCB上的完美的温度补偿。SOT223传感器配有一个散热片，以加强与PCB的热接触。

标称阻值 $R_0$ [ $\Omega$ ]	公差等级	产品料号	包装方式
Pt1000	F 0.6 (2B)	32209116	吸塑卷盘

### 公差等级及温度范围

公差等级 F 0.6 (2B)                      -50 °C 至 +150 °C  
规定的公差等级是指在连续工作的工况下

### 电阻温度系数

TCR = 3850 ppm/K

### 响应时间

水流 ( $v = 0.4$  m/s):                       $t_{0.5} = 0.45$  s  
    $t_{0.9} = 1.2$  s  
气流 ( $v = 2$  m/s):                          $t_{0.5} = 8$  s  
    $t_{0.9} = 26$  s

### 工作电流

Pt1000  $\Omega$ : 0.1 to 0.3 mA  
(必须考虑自加热)

### 长期稳定性

在规定的温度上限下使用 1000 小时后 0 °C 下的阻值漂移不超过 DIN EN IEC 60751 的公差等级公差。  
在 150 °C 下 1000 小时后, R (0 °C) 的阻值漂移为 0.06 %.

### 自热系数

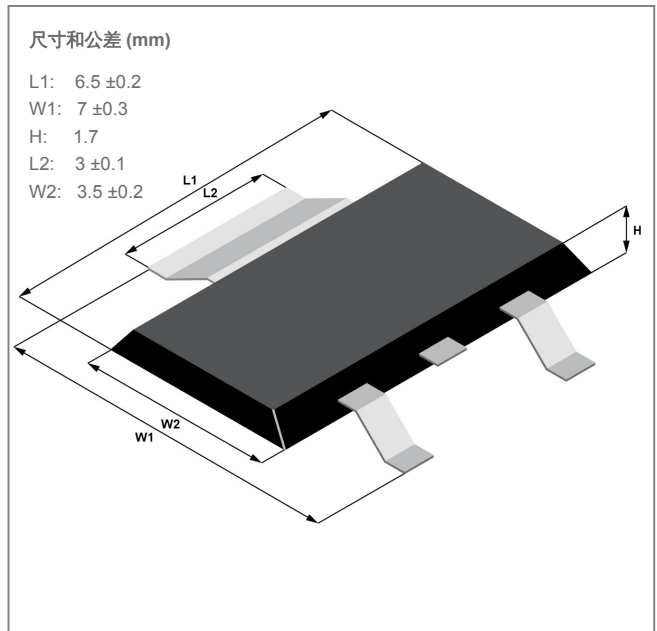
在 0 °C 时 0.049 K/mW; 安装在 PCB  
在 0 °C 时 0.2 K/mW; 只有包装

### 特定的体电阻

100 °C =  $14 \times 10^{14}$   $\Omega$ cm  
150 °C =  $0.3 \times 10^{12}$   $\Omega$ cm

### 封装的物理特征参数

材料: 刚性塑胶  
热膨胀系数:  $12 \times 10^{-6}$  1/K (T<sub>g</sub>以下)  
导热系数: 1.04 W/mK  
吸湿性: 沸水(48小时) < 1.0 %



图片仅供参考  
宽接线片用于导热

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### 阻燃等级

UL94-V0

### 可焊接引脚

铜镀锡

### 连接技术

锡焊

### 包装

吸塑卷盘

按要求提供其他包装形式

### 保质期

9个月(原包装).

推荐氮气

### 备注

其他公差, 电阻值和电线长度可根据要求提供.

RoHS  
compliant

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