



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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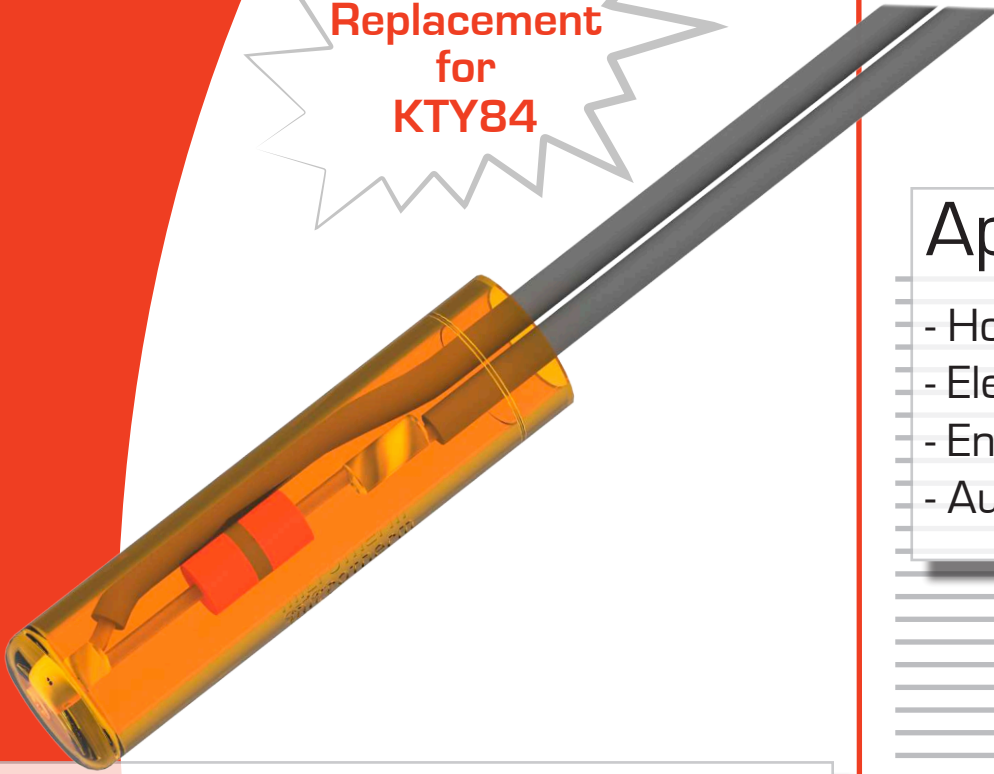
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Temperature sensor

# STS

Replacement  
for  
KTY84



## Applications

- Household appliances
- Electronics
- Engineering
- Automotive

## Benefits

- Temperatures from  $-40^{\circ}\text{C}$  up to  $+170^{\circ}\text{C}$
- Excellent long-term temperature stability
- High precision and reliability
- No polarity reversal (+/-) possible



CANTHERM™

## Technical data

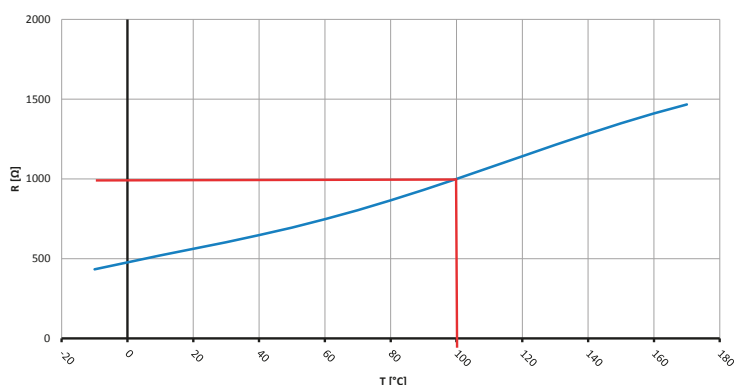
| ratings                              | type | STS1                   |
|--------------------------------------|------|------------------------|
| typ. resistance at 100°C (+-3%)      |      | 1000 Ω                 |
| operating temperature range          |      | -40°C ... +170 (190)°C |
| min. insulation resistance (100 Vdc) |      | 100 MΩ                 |
| operating current                    |      | 1 mA                   |
| max. rated power                     |      | 10 mW                  |

## Standard types

| type execution | illustration | drawing dimensions (mm) | technical description                            |
|----------------|--------------|-------------------------|--|
| STS1 G918      |              |                         | housing PPS<br>leads ETFE, AWG24, white          |
| STS1 U129      |              |                         | shrink sleeve Kynar®<br>leads ETFE, AWG24, white |
| STS1 CHIP      |              |                         | chip only no insulation,<br>no leads             |

## Temperature vs. resistance

| T°C  | -10 | 0   | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| min. | 411 | 454 | 495 | 536 | 578 | 620 | 668 | 720 | 776 | 836 | 902 | 970  | 1036 | 1105 | 1171 | 1234 | 1296 | 1354 | 1406 |
| typ. | 433 | 477 | 520 | 561 | 603 | 647 | 695 | 747 | 804 | 866 | 931 | 1000 | 1071 | 1142 | 1213 | 1282 | 1348 | 1410 | 1467 |
| max. | 455 | 500 | 544 | 586 | 628 | 674 | 722 | 774 | 832 | 895 | 961 | 1030 | 1105 | 1180 | 1255 | 1330 | 1400 | 1466 | 1529 |



**Remark:** Values of electric resistance correspond almost exactly to KTY84.  
Above 170°C the sensor may lose its linearity.

### Ordering example

STS1 1000 3 L360 500 G918

- Type of sensor
- R at 100°C
- Tolerance (%)
- Leads white, AWG24, ETFE
- Length of leads (+/- 10 mm)
- Housing number



**CANTHERM™**

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