

# Platinum temperature sensor T092

Temperature range  $-50\text{ }^{\circ}\text{C}$  to  $+150\text{ }^{\circ}\text{C}$

## Applications

Automobile industry, household appliances, industrial equipment and electronics.

## Specification

DIN EN 60751

## Tolerance class

Class F 0.3  
Class F 0.6

## Nominal resistances

100  $\Omega$  and 1000  $\Omega$   
at  $0\text{ }^{\circ}\text{C}$

## Temperature coefficient

3850 ppm/K

## Soldering connection

Cu alloy with Sn/Pb coating

## Connection technology

Suitable for soft soldering

## Long-term stability

Typical  $R_0$ -drift 0.06 %  
after 1000 hrs at  $150\text{ }^{\circ}\text{C}$   
Typical  $R_0$ -drift 0.04 %  
after 1000 hrs at  $-55\text{ }^{\circ}\text{C}$

## Measuring current

at 100  $\Omega$ :  
0.3 to 1.0 mA

at 1000  $\Omega$ :  
0.1 to 0.3 mA  
(self-heating has to be considered)

## Flammability

UL 94-VO

## Resistance to soldering heat

Max. deviation 0.03 %  
after 10s at  $260\text{ }^{\circ}\text{C}$

## Specific volume resistance

$20\text{ }^{\circ}\text{C}$ :  $5 \times 10^{16}\text{ } \Omega\text{cm}$ ,  
 $150\text{ }^{\circ}\text{C}$ :  $5 \times 10^{13}\text{ } \Omega\text{cm}$

## Storage life

min. 12 months  
(in original packaging)

## Status

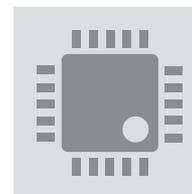
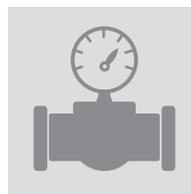
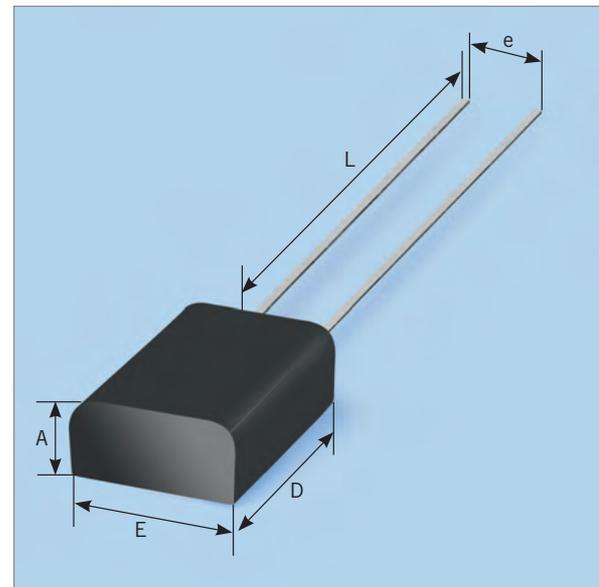
02/2016

## Supply range

The standard types listed in the catalog with their various features are the most frequently used designs. They can be obtained at short notice and at reasonable prices.

Non-standard versions are available for special applications.

Contact us!



# T092

## Tolerance Class F 0.6 over the temperature range -50°C to +150°C, R<sub>0</sub>:±0.24 %

Name			Order number	Self-heating Ice water 0°C in K/mW	Response time in seconds			
Type	Design	Nominal resistance			Water: v = 0.4 m/s		Air: v = 2 m/s	
					t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>
TO	92	Pt 100	32209216	0.4	0.7	2.0	8.0	26
TO	92	Pt 1000	32209226	0.2	0.7	2.0	8.0	26

## Tolerance Class F 0.3 over the temperature range -50°C to +150°C, R<sub>0</sub>:±0.12 %

Name			Order number	Self-heating Ice water 0°C in K/mW	Response time in seconds			
Type	Design	Nominal resistance			Water: v = 0.4 m/s		Air: v = 2 m/s	
					t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>
TO	92	Pt 100	32209210	0.4	0.7	2.0	8.0	26
TO	92	Pt 1000	32209220	0.2	0.7	2.0	8.0	26

## T092

### Dimensions in mm

Dimension	min.	max.
A	2.4	2.8
D	4.0	4.4
E	3.8	4.4
e	NOM.	2.54
L	12.0	13.0