



# Platinum - 600°C

## Platinum Thin-Film

### Temperature Sensor 5x2mm

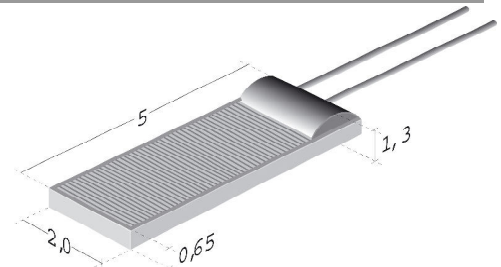
#### Product

The combination of knowledge in the field of sensor technology and perfectly matched materials are key to this precise platinum thin-film temperature sensor. It shows an excellent long-term stability and resistance to thermal shock at temperatures up to a maximum of 600°C.

The chip dimensions of 5 x 2 mm (length x width) are available on the basis value of 100, 500 and 1000 ohms at DIN EN 60751 tolerance class or better.

#### Advantages

- Wide temperature range
- Resistance to thermal shock
- Excellent long-term stability
- Easy interchangeability



#### Technical Data

|                            |                                              |    |                          |
|----------------------------|----------------------------------------------|----|--------------------------|
| Nominal resistance:        | 100Ω, 500 Ω, 1000Ω, others on request        |    |                          |
| Temperature range:         | -200°C to 600°C                              |    |                          |
| Classes:                   | 1/3 DIN class B ; DIN class A ; DIN class B  |    |                          |
| Tolerance classes:         | 1/3 DIN class B: -50°C to 150°C              |    |                          |
|                            | DIN class A: -90°C to 300°C                  |    |                          |
|                            | DIN class B: -200°C to 600°C                 |    |                          |
| Temperature coefficient:   | TCR = 3850ppm/K                              |    |                          |
| Dependence of Resistivity: | DIN EN 60751                                 |    |                          |
| Wires:                     | Pt-Ni clad wire, Ø 0.2 mm                    |    |                          |
| Long-term stability:       | max. Drift = 0.03% after 1000h at 600°C      |    |                          |
| Response time:             | Water (0.4 m/s)                              | :  | T <sub>0.63</sub> = 0.3s |
|                            | Air (1m/s)                                   | :  | T <sub>0.63</sub> = 8.5s |
| Measuring current:         | 0.5mA (100 Ω); 0.4mA (500 Ω); 0.3mA (1000 Ω) |    |                          |
| Self heating:              | Water [mW/°C]:                               | 80 |                          |
|                            | Air [mW/°C]:                                 | 7  |                          |

Other Chipsizes, Nominal resistances, tolerances, length of wire or materials on request.



INNOVATIVE SENSOR TECHNOLOGY

