



Platinum - 600°C

Platinum Thin-Film

Temperature Sensor 5x2mm

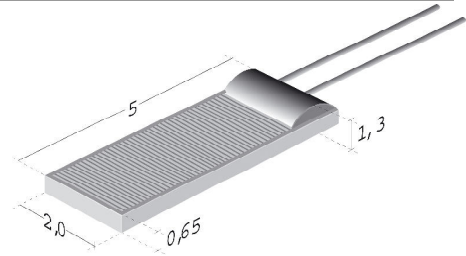
Product

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 _{0.63} = 0.3s Air (1m/s) : T _{0.63} = 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

