



Platinum - 600°C

Platinum Thin-Film

Temperature Sensor 2,3x2mm

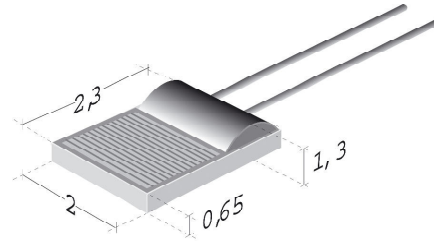
Product

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 2 x 2.3 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:	PT100Ω, PT500Ω, PT1000Ω	
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 0.2mm	
Long-term stability:	max. Drift = 0.03% after 1000h at 600°C	
Response time:	Water (0.4m/s)	: T _{0.63} = 0.2s
	Air (1m/s)	: T _{0.63} = 6s
Measuring current:	0.5mA (100Ω) ; 0.4mA (500Ω) ; 0.3mA (1000Ω)	
Self heating:	Water [mW/°C]:	40
	Air [mW/°C]:	4

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



INNOVATIVE SENSOR TECHNOLOGY



IST AG, Industriestrasse 2, CH-9630 Wattwil, Switzerland, Phone (+)41 71 987 73 73, Fax (+)41 71 987 73 77
e-mail info@ist-ag.com, www.ist-ag.com