TEMPERATURE

HUMIDITY

FLOW

Platinum - 600℃
Platinum Thin-Film Temperature Sensor 2,3x2mm

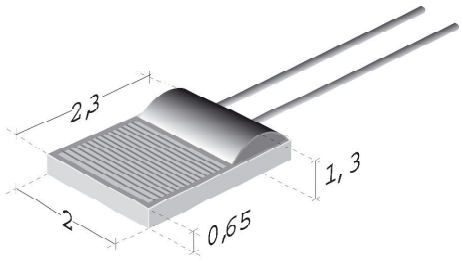
Product

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℃.

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℃ to 600℃		
Classes:	⅓ DIN class B ; DIN class A ; DIN class B		
Tolerance classes:	⅓ DIN class B: -50℃ to 150℃		
	DIN class A: -90℃ to 300℃		
	DIN class B: -200℃ to 600℃		
Temperature coefficient:	TCR = 3850ppm/K		
Dependence of Resistivity:	DIN EN 60751		
Wires:	Pt-Ni clad wire, ∅ 0.2mm		
Long-term stability:	max. Drift = 0.03% after 1000h at 600℃		
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/℃]:	40	
	Air [mW/℃]:	4	

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

INNOVATIVE SENSOR TECHNOLOGY

ISO 9001

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

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