

Platinum thin-film sensor Type C (Cryo)

Temperature range -196 °C to +150 °C

Applications

Cryo (aerospace, chemical and power generation plants and analytical equipment)

Specification

DIN EN 60751

Tolerance class

Class B

Nominal resistances

100 Ω and 1000 Ω at 0 °C

Temperature coefficient

3850 ppm/K

Soldering connection

AuPd leads, AgPd leads

Long-term stability

Typical R₀-drift 0.03 % after 1000 h at 150 °C

Vibration resistance

At least 40 g acceleration at 10 to 2000 Hz, depending on mounting method

Shock resistance

At least 100 g acceleration with 8 ms half sine wave, depending on mounting method

Measuring current

at 100 Ω: 0.3 to 1.0 mA
at 1000 Ω: 0.1 to 0.3 mA

Environmental conditions

Use unprotected only in dry environments

Insulation resistance

> 10 MΩ at 20 °C;
> 1 MΩ at 500 °C

Packaging

Shipment < 500 pcs. in plastic box
> 500 pcs. loose in a bag

Status

04/2008

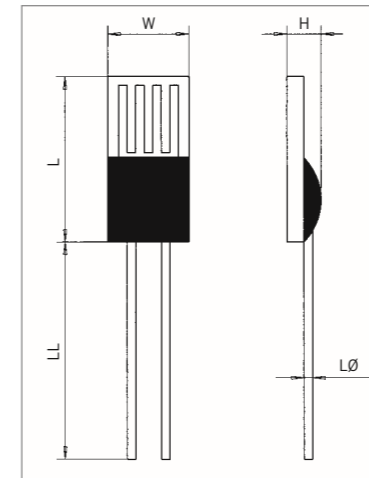
Supply range

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

For special applications, non-standard versions are available. The following alternatives are possible:

- Different dimensions
- Different nominal resistances
- Different temperature coefficients
- Different lengths of leads
- Different tolerances
- Different packaging

Please contact us.



Tolerance class B from -196 °C to +150 °C

Name		Order number		Dimensions in mm					Self-heating	Response time in seconds				
Type	Design	Nominal resistance	Plastic box/ Plastic bag	Leads	L	W	H	LL	LØ	Ice water 0 °C in K/mW	Water: v = 0,4m/s		Air: v = 2m/s	
											t _{0,5}	t _{0,9}	t _{0,5}	t _{0,9}
C	420	Pt 1000	32207502	AgPd	3.9	1.9	1.0	15	0.25	0.3	0.08	0.25	3.50	15
C	220	Pt 100	32207399	AgPd	2.3	1.9	1.0	10	0.25	0.4	0.06	0.20	3.00	13

Tolerances:

L: ± 0.15 • W: ± 0.2 • H: + 0.3/-0.2 • LL: ± 1.0 • LØ: ± 0.02

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