

Datasheet

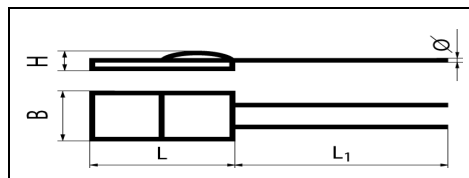
2x2Pt1000-2B-750°C

130004

Summary

This platinum temperature sensor element is characterized by its small size and its wide temperature range.

Dimensions in mm

	L	B	L₁	H	Ø
	2,3 ± 0,15	1,9 ± 0,15	8 ± 1	1 ± 0,3	0,2 ± 0,02

Technical specifications

Nominal resistance R ₀ at 0°C	Specification	Tolerance	Order Number	Item Number
1000 Ω	DIN EN 60751	Klasse 2B	2x2Pt1000-2B-750°C	130004

Temperature range:	-70 ° C to +750 ° C in continuous operation Validity of the tolerance class 2B: -70 ° C to +750 ° C		
Temperature coefficient:	TK = 3850 ppm / K		
Connecting wires:	NiCr-coated wire		
Long-term stability:	max. R ₀ -drift after 1000 hours at 750 ° C (energized) <0.24% (of developed chip in air)		
Vibration resistance:	At least 40 g acceleration at 10 to 2000 Hz, depends on installation		
Shock resistance:	At least 100 g acceleration with 8ms half sine wave, depends on installation		
Environmental conditions:	unprotected only in dry environments, above 500 ° C no reducing atmosphere, air access must be guaranteed. Shoring can influence drift behavior!		
Insulation resistance:	> 100 MΩ at 20 ° C; > 1 MΩ at 650 ° C		
Self-heating:	0.2 K / mW		
Response:	water current (v = 0.4 m / s):	t _{0,5} = 0.05 s	t _{0,9} = 0.14 s
	Air flow (v = 2 m / s):	t _{0,5} = 3.0 s	t _{0,9} = 10.0 s
Measuring current:	0.1 to 1 mA (consider self-heating)		
Measuring point:	6 mm from the end of the sensor element body		
Packaging:	loose in bag / vacuum packed		
Hinweis:	Bitte beachten Sie unsere Einsatz- und Einbauhinweise.		
RoHS konform			

Technische Änderungen behalten wir uns vor. Alle technischen Angaben sind Beschaffenheitsangaben und sichern keine Eigenschaften zu.

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