

Datasheet

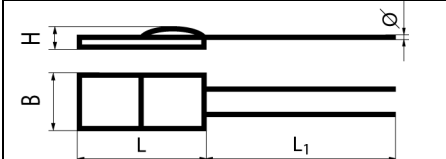
2x2,2Pt500B

121003

Summary

This platinum temperature sensor element is characterized by its excellent price-performance and is therefore used in mass markets.

Dimensions in mm

	L	W	L₁	H	Ø
	2,3 ± 0,15	2,1 ± 0,2	10 ± 1	0,9 + 0,3 – 0,2	0,2 ± 0,02

Technical specifications

Nominal resistance R ₀ at 0 °C	Specification	Tolerance	Order Number	Item Number
500 Ω	DIN EN 60751	F 0,3 (DIN B)	2x2,2Pt500B	121003

Temperature range:	-70 °C to + 500 °C in continuous operation (briefly up to 550 °C possible)		
	Validity of tolerance F 0,3: -70 °C to + 500 °C		
Temperature coefficient:	TK = 3850 ppm/K		
Connecting wires:	NiPt coated wire, suitable for crimping, welding and brazing		
Long-term stability:	max. R ₀ -drift 0.04 % after 1000 h at 500 °C		
Vibration resistance:	At least 40 g acceleration at 10 to 2000 Hz, depends on installation		
Shock resistance:	at least 100 g acceleration with 8 ms half sine wave, depends on installation		
Environmental conditions:	unprotected only in dry environments		
Insulation resistance:	> 100 MΩ at 20 °C; > 2 MΩ at 500 °C		
Self-heating:	0.4 K / mW at 0 °C		
Response:	water current (v = 0.4 m/s):	t _{0,5} = 0.05 s	t _{0,9} = 0.15 s
	Air flow (v = 2 m/s):	t _{0,5} = 3,0 s	t _{0,9} = 10.0 s
Measuring current:	0.1 to 0.7 mA (consider self-heating)		
Measuring point:	8 mm from the end of the sensor element body		
Packaging:	Taped		
Note:	Please refer to our application and installation instructions.		
RoHS compliant			

We reserve the right to make technical changes. All technical data serves as information and does not guarantee properties.

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