P1K0.232.6W.B.010.U.S

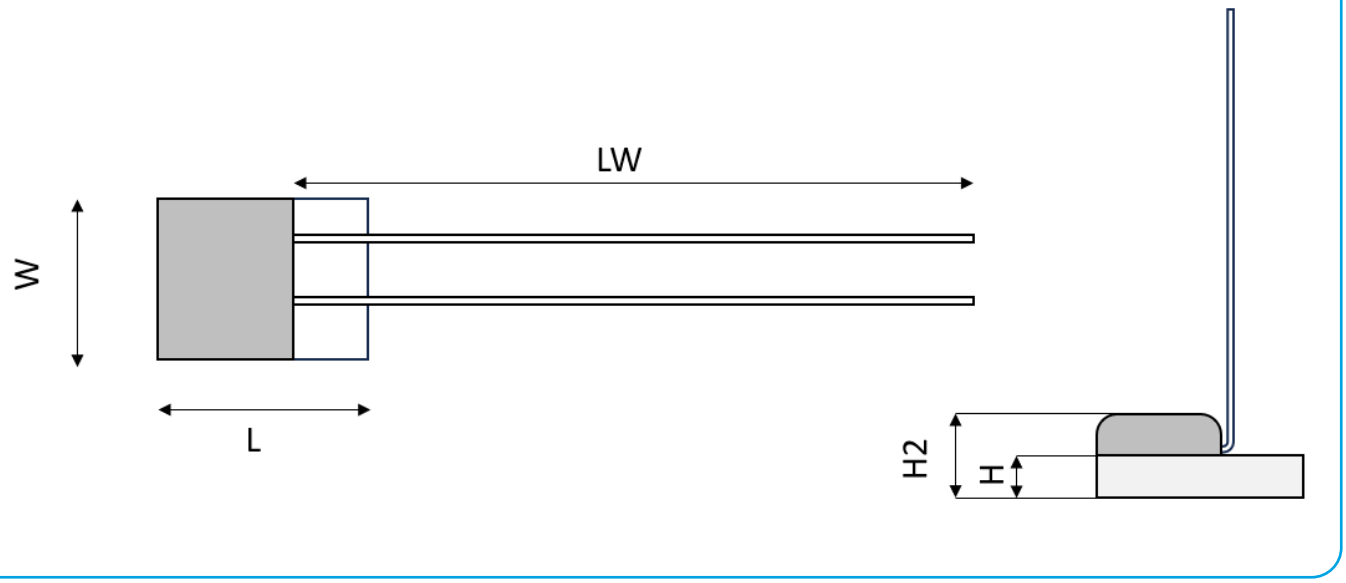
Platinum sensor with inversed, 90° bent Ni/Pt wires

For high temperatures

Benefits & characteristics

- Excellent long-term stability
- Low self-heating
- Inversed contacts, 90° bent
- Fast response time
- Metallized backside available
- Customer-specific sensor available upon request

Illustration [1)]



[1)] for actual size see dimensions in order information

H = Substrate Hight	H2 =Hight	W = Width	L = Length	LW = Wire length
Dimension tolerances:		W ±0.2 mm, L ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm, LW (up to 30 mm) ±1 mm		

Technical data

Operating temperature range:	-200 °C to +600 °C	
Nominal resistance:*	1000 Ω at 0 °C	
Characteristics curve:*	3850 ppm/K	
Long-term stability:	< 0.04 % at 1000 h at maximal operating temperature	
Tolerance class: * (dependent on temperature range)	IEC 60751 F0.3	iST reference B
Connection:*	Ni/Pt wire, Ø 0.2 mm, 10 mm long, inversed contacts, wire 90° bent	
Alternative wire construction:*	Extended wires	
Recommended applied current:	0.3 mA at 1000 Ω	

1)Self-heating must be considered

* Customer-specific alternatives available

Order Information 2I (Cu/Ag-wire, AWG34, PTFE-insulated black)

Nominal Resistance	Size	Dimensions (L x W x H / H2 in mm) L $^{\pm 0.2}$ mm, W $^{\pm 0.2}$ mm, H $^{\pm 0.1}$ mm, H2 $^{\pm 0.3}$ mm	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
1000 Ω	232	2.3 x 2.0 x 0.65 / 1.1 mm	F0.3 (class B)	155768	P1K0.232.6W.B.010.U.S	10	90° bent inverted wires

Additional Documents

Application Note	Document name: APT_E

Order Information

Platinum Sensor - Secondary reference

Material

P	=	Platinum

TCR

	=	Pt 3840 ppm/K	G	=	Pt 3911 ppm/K
U	=	Pt 3750 ppm/K	W	=	Pt 3850 ppm/K (extended operating temperature range in class A

Resistance in Ω at 0°C

Size in mm

Operating temperature range

1	=	-50 °C to + 150 °C	6	=	-200°C to + 600 °C
2	=	-50 °C to + 200 °C	7	=	-200 °C to + 750 °C
3	=	-200 °C to + 300 °C	8	=	-200 °C to + 850 °C
4	=	-200 °C to + 400 °C	10	=	-70 °C to + 1000 °C

Connections

S	=	SIL	FK	=	Flat wire customer specific
I	=	Insulated wire	SW	=	Perpendicular wire
K	=	Extended wire	L	=	Insulated stranded wire
W	=	Wire	E	=	Enameled Cu-wire
FW	=	Flat wire	SE	=	Perpendicular enameled Cu-wire

Tolerance class

A	=	IEC 60751 F0.15	K	=	Customer-specific
B	=	IEC 60751 F0.3	P	=	Pair
C	=	IEC 60751 F0.6	G	=	Group
Y	=	IEC 60751 F0.1			

Wire length in mm

Special

T	=	Substrate thickness 0.25 mm	M	=	Metallized backside
D	=	Substrate thickness 0.38 mm	U	=	Inverted welding
R	=	Round housing	S	=	Special
W	=	Sintered powder			

P		1K0.	232.	6	W.	B.	010.	U.	S

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