THIN-FILM RESISTANCE ELEMENTS
TYPES PRE/C

DESCRIPTION:

A ceramic substrate supports a structured platinum layer covered with glass. The connection lead contacts are shear force resistant.

FEATURES:

- Connection leads made of gold plated brass, allow problem-free soft solder.
- Small dimensions available
- High electrical insulation is guaranteed by non-conductive edges and sides
- Short response times

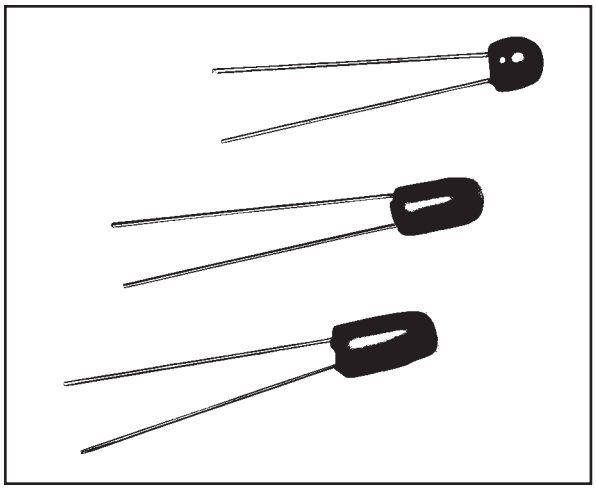
APPLICATIONS:

- Suited for surface measurement
- Installation on printed circuit boards
- Application in the auto industry
- Resistance elements selected in tolerance groups for calorimetry

OPTIONS:

Special versions on request. (Please take into account longer delivery time and minimum order quantity).
Examples of possible variations are:

- Narrower (than IEC) tolerances (indicate measurement point or range)
- Longer or shorter connection wires
- Connection wires in opposite direction: U shape
- Extension of the connection wires with all types of cables.
- Rigid connection clamps which enable automatic processing i.e., assembly of printed circuit boards. (Temperature range -30°C to 180°C)



DATA:

Nominal resistance value:

100 Ohms, 500 Ohms, 1000 Ohms at 0°C

Tolerance Grade:

A and B according to IEC 751 and narrower tolerances in restricted temperature ranges. Selection in tolerance groups is also possible.

Temperature range:

-70°C to +250°C

Connection material:

Gold plated brass wire

Temperature stability:

Slight hysteresis possible after temperature shocks.

Vibration Resistance:

High resistance to vibration and shocks.

Mechanical Stability:

Care must be taken when housing the elements; excessive stress may affect nominal resistance.

Environmental Conditions:

Unhoused, for dry environment only.

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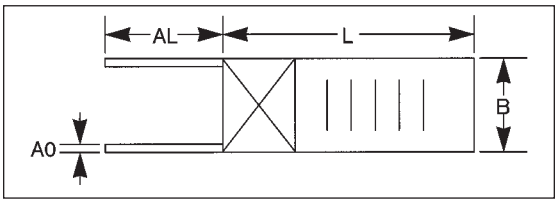

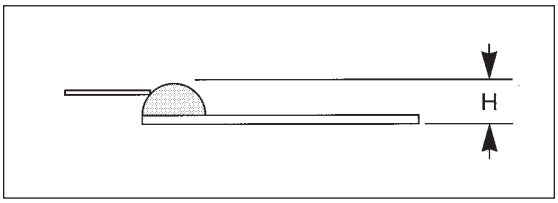

Part Number	Nominal Resistance Ω @ 0°C	L	B	H	AL	A0 (Dimensions in mm)	Self-Heating k/mW air stream v=1 m/s	response time in seconds: water current v=0.4 m/s t 0.5	water current v=0.4 m/s t 0.9	air stream v=1 m/s t 0.5	air stream v=1 m/s t 0.9

CLASS B

PT101C1002B1	100	9.5	1.9	1.1	10	0.2	0.20	0.2	0.4	4.2	12.7
PT501C1002B1	500	9.5	1.9	1.1	10	0.2	0.20	0.2	0.4	4.2	12.7
PT102C1002B1	1000	9.5	1.9	1.1	10	0.2	0.20	0.2	0.4	4.2	12.7
PT101C0403B1	100	3.9	2.9	1.1	10	0.2	0.35	0.2	0.5	4.1	13.6

CLASS A

PT101C1002D1	100	9.5	1.9	1.1	10	0.25	0.20	0.2	0.4	4.2	12.7
PT501C1002D1	500	9.5	1.9	1.1	10	0.25	0.20	0.2	0.4	4.2	12.7
PT102C1002D1	1000	9.5	1.9	1.1	10	0.25	0.20	0.2	0.4	4.2	12.7
PT101C0403D1	100	3.9	2.9	1.1	10	0.25	0.35	0.2	0.5	4.1	13.6

CLASS 1/3 DIN B

PT101C1002B3	100	9.5	1.9	1.1	10	0.25	0.20	0.2	0.4	4.2	12.7
PT501C1002B3	500	9.5	1.9	1.1	10	0.25	0.20	0.2	0.4	4.2	12.7
PT102C1002B31	1000	9.5	1.9	1.1	10	0.25	0.20	0.2	0.4	4.2	12.7
PT101C0403B3	100	3.9	2.9	1.1	10	0.25	0.35	0.2	0.5	4.1	13.6

Dimensional tolerances: L (length of body) and B (width) = ±0.15mm, H (height, includes 0.4mm substrate thickness) = maximum ±0.1mm, AL (connection wire length) = ±1.0mm. A0 (connection wire diameter) = ±0.02mm.

The measuring point for the basic value is situated at 2 mm from the end of the sensor body.