

Specification of Pt Thermal Sensor

1. Electrical Characteristics of SA10260557

- 1-1 Resistance value (at0°C) :1000.0 ± 0.6 ohm
- 1-2 Maximum applied current :1mA
- 1-3 Insulation resistance :exceed 100M ohm at 500V DC (@ room temp.)
- 1-4 Thermal response time (90%) :15 sec. max.(in air, 1m/sec.)
- 1-5 Self heating :2mW/°C(in air, 1m/sec.)
- 1-6 Operation temperature range :-50°C to 500°C

2. Outline Drawings

Please see attached figure.

3. Relationship of temperature with resistance

When $t \geq 0^\circ\text{C}$

When $t < 0^\circ\text{C}$

$$R_t = R_0 (1 + At + Bt^2)$$

$$R_t = R_0 [1 + At + Bt^2 + C(t - 100)t^3]$$

$$A = 3.9083E-3$$

$$A = 3.9083E-03$$

$$B = -5.7750E-7$$

$$B = -5.7750E-07$$

$$R_0 = 1.000E+03$$

$$C = -4.1830E-12$$

$$R_0 = 1.000E+03$$

4. Specifications are subject to change without notice

UNLESS OTHERWISE SPECIFIED TOLERANCES ON :

X = ±

X.X = ±

X.XX = ±

ANGLES ± HOLE DIA.±

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1

2

3

4

D

C

B

A

1.25±0.20(TYP.)

3.0±0.15

10±2(TYP.)

2.0±0.15

THE MATERIAL OF WIRE IS Ni WIRE, Ø0.22(TYP.)

UNLESS OTHERWISE SPECIFIED TOLERANCES ON :

X = ±

X.X = ±

X.XX = ±

ANGLES ± HOLE DIA.±

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