C 220, Platinum Temperature Sensor according to DIN EN 60751

Temperature range -196 °C to +150 °C

The C series thin-film PRTDs combine the ideal curve characteristics of ceramic wire-wound RTDs with the vibration resistance of glass wire-wound RTDs and represent an excellent alternative to wire-wound RTDs. They are characterized by high long-term stability, excellent temperature shock resistance and a wide temperature range of -196 °C to +150 °C, they show no hysteresis. These features make them best suited for applications in aerospace, chemical and power generation plants and analytical equipment.

Nominal Resistance R_0	Tolerance	Order Number	Packaging
100 Ohm at 0 °C	F 0.3 (Class B)	32 207 399	VCI-plastic bag

The measuring point for the nominal resistance is defined at 8 mm from the end of the sensor body.

Temperature and tolerance range

Tolerance class F 0.3 (B): -196 °C to +150 °C

Temperature coefficient

TCR = 3850 ppm/K

Response time

Water current (v= 0.4m/s): t0.5 = 0.06 s
t0.9 = 0.20 s

Air stream (v= 2m/s): t0.5 = 3.0 s
t0.9 = 13.0 s

Measuring current

100 Ω: 0.3 to 1.0 mA
(self-heating has to be considered)

Long-term stability

R_0-Drift 0.03 % after 1000 hours at 150 °C

Self-heating

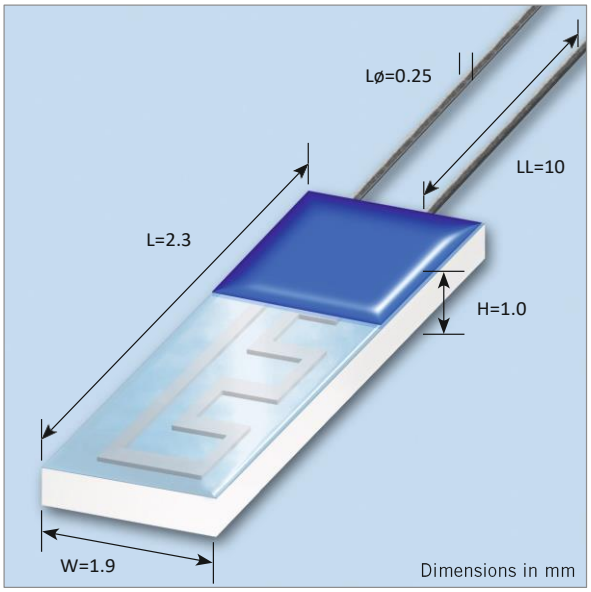
0.4 K/mW at 0 °C

Insulation resistance

> 100 MΩ at 150 °C

Vibration resistance

At least 40 g acceleration at 10 to 2000 Hz, depends on installation



RoHS konform

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C 220, Platinum Temperature Sensor according to DIN EN 60751

Temperature range -196 °C to +150 °C

Shock resistance
At least 100 g acceleration with 8 ms half sine wave, depends on installation

Leads
AgPd-wire

Lead lengths (LL)
10 mm ± 1 mm

Connection technology
Suitable for soft soldering (note, application temperature of the solder)

Tensile Strength of leads
≥ 8 N

Packaging
Alternative packaging forms on request.

Storage life
Min. 12 month (in original packaging)

Note
Other tolerances, values of resistance and wire lengths are available on request.

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