PT TEMPERATURE SENSOR – PTF FAMILY

SPECIFICATIONS

- **Conformal to standard platinum temperature sensors according DIN EN 60751**
- **R0: 100 and 1000 Ω**
- **Class F 0.1 (T = AA), F 0.15 (A), F 0.3 (B) and F 0.6 (C) accuracy**
- **Wide temperature range**
- **Different outline dimensions**
- **Global interchangeability**

The PTF-sensor family combines a group of resistance temperature detectors (RTD) using a Platinum resistor in thin film technology as sensing element. It consists of a structured platinum film on a ceramics substrate, passivated by glass coating. The connection wires are protected with glass on the welding area.
The characteristic curve of this Platinum RTD complies with DIN EN 60751. The usage of Platinum as resistive material guarantees high long term stability.
Due to small outline and low mass this RTD has a low time constant; therefore it is a suitable solution for fast and precise feedback control systems.

FEATURES

- Conformal to DIN EN 60751
- Wide temperature range: -50 … +600 °C (Ni/Au wire and Class F 0.3, Ag-Wire versions are limited to 300 °C)
- Standard nominal resistances values:
  R_0: 100 and 1000 Ω (other on request)
- Class F 0.1 (T = AA), F 0.15 (A), F 0.3 (B) and F 0.6 (C) accuracy
- Low drift over lifetime
- Fast response time because of low thermal mass
- Different outline dimensions available to fit a wide range of space requirements
- Global interchangeability

APPLICATIONS

- Temperature feedback control
- White goods
- Industrial applications
- Automotive
- Medical
- Sensing element for plug-in probes