Pt100 class F0.3 with insulated wire



Temperature range -50 °C to +150 °C, 5.0 x 1.6 mm, 152 mm wires, ends 17 mm stripped

Thin-film platinum 100 Ohm RTD component

Product Name: P0K1.516.1K.B.152.D.S
Nominal resistance: 100 Ω at 0 °C
Operating temperature range: -50 °C to +150 °C
TCR: Pt 3850 ppm/K
Chip size/dimensions: 5.0 x 1.6 x 1.05 mm
Tolerance/class: IEC 60751 F0.3 (IST AG tolerance class B)
Connection type: Cu/Ag-wire, AWG30, Peek insulated
Wire length: 152 mm
Packaging: Ziplock bag
Product Old code: 010.00459
Product code: 100358

Product details

Platinum Sensors

Innovative Sensor Technology IST AG platinum temperature sensors provide solutions for extreme temperature applications and are designed with the highest quality materials, allowing them to operate within a wide temperature range of -200 °C to +1000 °C. Standard IEC 60751 sensors are offered in class F0.3 (0.12 %), class F0.15 (0.06 %), F0.1 (0.04 %), and higher accuracies upon request.Our sensors are available in wireless (SMD) and wired configurations, and in sizes ranging from 0.75 mm to 10 mm (L), and 0.75 mm to 5.08 mm (W). Standard sensors can be customized with a variety of lead wire material, insulations, length, and configurations.

With many years of experience, iST also offers development of customer-specific applications in terms of sensor technology development and consultation. As part of the standard development process, we give support at the point of implementation - this way we ensure the best sensor solution for specific applications.

More information on platinum temperature sensors

Directly welded insulated wires

Enameled Cu-wire (1E)

iST offers temperature sensors with extended and directly welded insulated enameled Cu-wire. The insulation is additionally removed and pre-tinned at the end of the wire, which enables easy soldering into applications. Due to the small diameter of the enameled Cu-wire (Ø 0.2 mm), the sensor is offered with extremely small dimensions; as low as 0.8 mm x 3 mm or 1.2 mm x 1.6 mm and with extended directly welded wires. Temperature sensors with enameled Cu-wires are used in applications up to +150 °C, short-term excessive temperatures up to +180 °C are definitely possible.

Straight and stranded PTFE-wire (2I / 2L)

We offer sensors with Cu/Ag straight and stranded wire with PTFE-insulation. The directly welded wires enable an outstanding robustness and are optimal for connector assemblies or for soldering, welding and crimping. The Cu/Ag straight and

stranded PTFE-wire can be extended or directly welded to the sensor chip to meet application-specific requirements.

Quality

Consistent with the well-known, high-quality standards in Switzerland, IST AG is certified according to ISO 9001:2015 (quality) and ISO 14001:2015 (environment). Appropriate processes are part of our daily work. They are regularly audited and extended parallel to the growth of our company.

> Read more

The online shop

Quantity (pieces)	Price (per piece)
10-49	CHF 14.96
50-99	CHF 11.87
100-150	CHF 10.51

Stock: **0**