



HEL-775-B-U-1



HEL-775 Series temperature sensor, platinum RTD, ceramic case, SIP

Actual product appearance may vary.

Features

- Linear resistance vs temperature
- Accurate and interchangeable
- Excellent stability
- Small for fast response
- Wide temperature range

Potential Applications

- HVAC: room, duct and refrigerant temperature
- Electronic assemblies: thermal management, temperature compensation
- Process control: temperature regulation

Description

HEL-775 platinum RTDs are designed to measure temperatures from -55 °C to 150 °C [-67 °F to 302 °F] in printed circuit boards, temperature probes, or other lower temperature applications. Solderable leads in 0.050" or 0.100 in" spacing provide strong connections for wires or printed circuits.

The 1000 Ohm, 375 alpha version, provides 10X greater sensitivity and signal-to-noise. The 0.050 in lead space models are ideal for probes.

Product Specifications	
Termination	SIP
Termination Material	Phosphor bronze with bright tin lead 60/40 plating
Availability	Global
Sensor Type	1000 Ohm platinum RTD
Temperature Coefficient	0.00375 Ohm/Ohm/°C
Packaging Type	Ceramic case
Temperature Sensing Range	-55 °C to 150 °C [-176 °F to 302 °F]
Base Resistance and Interchangeability	1000 Ohm ±1 Ohm at 0 °C
Linearity % of Full Scale	±0.15% typ. -55 °C to 150 °C [58 °F to 302 °F]

Time Constant in air at 3,5 m/s [10 ft/s]	<10 s
Stability	0,05 °C per five years in occupied environment
Supply Voltage	Not applicable
Supply Current (Recommended)	1 mA typ., 2 mA max.
Self Heating	<6,8 mW/ °C typ.
Insulation Resistance	50 MOhm at 50 Vdc, 25 °C [77 °F]
Series Name	HEL-775
Construction	Alumina substrate, epoxy protection
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers