

Features

- Precision, solid state temperature sensor
- Interchangeability to $\pm 0.2^{\circ}\text{C}$ • High sensitivity greater than $-4\%/^{\circ}\text{C}$ at 25°C
- Suitable for temperature measurement, control and compensation
- High reliability and stability over interchangeable range
- Resin coated for good mechanical strength and resistance to solvents
- 0.008" (0.2mm) dia. Bare tinned 180 alloy lead-wires

RS PRO 5k Ω NTC Thermistor, 10s

RS Stock No.: 151-221



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Product Description

Epoxy coated interchangeable chip thermistors with bare tinned 180 alloy lead-wires. The R-T curve (Resistance-Temperature) matched thermistors are small, high quality, epoxy encapsulated, precision devices. They offer true interchangeability over wide temperature ranges, this permits the circuit designer to standardise on circuitry, eliminating the need to individually adjust circuits and allowing the thermistors to be easily replaced without the need for re-calibration.

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General Specifications

Epoxy-coated NTC interchangeable thermistor chips with bare tinned 180 alloy lead wires	
Diameter	0.008 in (0.2mm)
Dissipation Constant	Still air: 1 mW/ $^{\circ}\text{C}$ Stirred oil: 8 mW/ $^{\circ}\text{C}$
Thermal Time Constant	Still air: 10 seconds Stirred oil: 1 second
Maximum Power at 25°C	75 mW
De-rated	From 100% at 25°C to 0% at 100°C
Maximum Operating Temp.	$+150^{\circ}\text{C}$
Minimum Operating Temp.	-80°C
Resistance @ 25°C	5k Ω
Temp Coefficient Type	NTC
Thermal Time Constraint	10s
Tolerance	$\pm 0.9\%$
Applications	Suitable for temperature measurement, control and compensation

Dimensions

