



## Ultra Precision Interchangeable Thermistors 0.05°C Accuracy

U.S. Sensor's ultra precision interchangeable thermistors are highly accurate, stable devices designed specifically for temperature sensing and control applications. They are particularly suited for uses where their precision interchangeability eliminates the necessity for costly individual circuit calibration.

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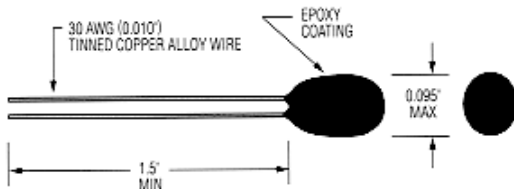
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### Features

- High accuracy
- Fast thermal response
- Long life
- R/T Curve-matched
- Epoxy encapsulated
- High stability
- Small size

### Options

- Special lead materials and lengths
- Special encapsulants or probe housings
- Non-standard resistance values and tolerances



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### Specifications

- Thermal time constant: 1 second max. in a well stirred oil bath, 10 seconds max. in still air
- Dissipation constant: 1 mW/°C
- Maximum power rating: 30 mW at 25°C derated to 1 mW at 125°C
- Interchangeability tolerance of  $\pm 0.05^\circ\text{C}$  from 0-50°C
- Operating temperature: -55°C to +80°C
- Storage and operation temperatures for best long term stability: -55° to +50°C

### ULTRA PRECISION INTERCHANGEABLE THERMISTORS (80°C)

Part Number ( $\pm 0.05^\circ\text{C}$ 0-50°C)	Resistance Ohms @25°C	R-T Curve	Beta (K) 0-50°C	View R-T Chart
PR222J2	2252	J	3890	
PR302J2	3000	J	3890	
PR502J2	5000	J	3890	
PR103J2	10000	J	3890	
PR203J2	20000	J	3890	
PR303J2	30000	J	3890	
PR503J2	50000	J	3890	

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