



## 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.

### Company Information

- [About U. S. Sensor](#)
- [Mission Statement](#)
- [Newsletter](#)
- [Employment Opportunities](#)

### Product Guide

- [NTC Thermistors](#)
- [NTC Probes & Assemblies](#)
- [RTD's](#)
- [RTD's Probes & Assemblies](#)

### Technical Data

- [What is a thermistor](#)
- [Terminology](#)
- [Manufacturing Quality](#)

### Markets and Applications

### Find a Sales Rep/ Distributor

### Contact Us

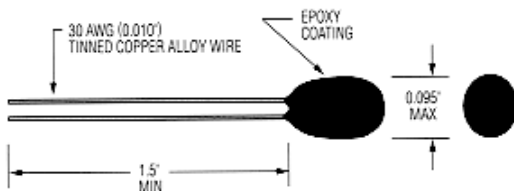
### Home

### 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



[View Photo](#)

### 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	

[« Product Guide](#)

[Top^](#)

[Next »](#)

**U.S. Sensor**  
 1832 W. Collins Ave  
 Orange, CA 92867  
 Tel: 800-777-6467  
 Tel: 714-639-1000  
 Fax: 714-639-1220  
 Email: [sales@ussensor.com](mailto:sales@ussensor.com)