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NTC Thermistor Applications Engineering Module

Learn about the unique characteristics of thermistors and key design considerations for using thermistors for temperature measurement and control.

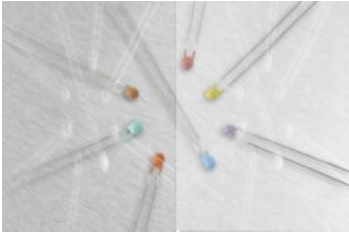


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STANDARD PRECISION INTERCHANGEABLE THERMISTORS 0.1°C AND 0.2°C ACCURACY



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U.S. Sensor's standard precision interchangeable thermistors are low cost, 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.

Features

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

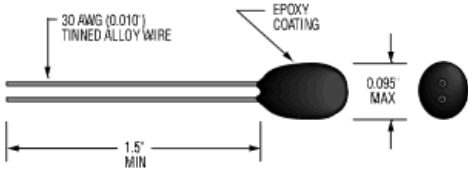
Options

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

Specifications

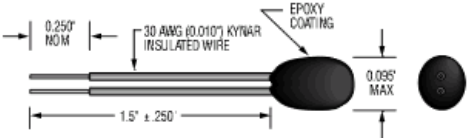
- Thermal time constant: 1 second max in a well stirred oil bath, 10 seconds max in still air
- Dissipation constant: 1 mW/°C
- Maximum power rating: 30 mW at 25°C derated to 1 mW at 125°C
- Interchangeability tolerance of ±0.1°C or ±0.2°C from 0-70°C
- Operating temperature: PS and PT series -80°C to +150°C, KS and KT series -80°C to +135°C
- Storage and operation temperatures for best long term stability: KT and PT series = -80° to +120°C, KS and PS series = -80° to +75°C

"PS" & "PT" Series



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"KS" & "KT" Series



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STANDARD PRECISION INTERCHANGEABLE THERMISTORS (150°C) ± 0.1°C ACCURACY - BARE LEADS					
Part Number (±0.1°C 0-70°C)	Resistance Ohms@ 25°C	R-T Curve	Beta (K) 0-50°C	Download/view	
PS102J2*	1,000	J	3,890	Drawing	R-T Data
PS222J2	2,252	J	3,890	Drawing	R-T Data
PS302J2	3,000	J	3,890	Drawing	R-T Data
PS502J2	5,000	J	3,890	Drawing	R-T Data
PS602J2	6,000	J	3,890	Drawing	R-T Data
PS103G2	10,000	G	3,575	Drawing	R-T Data
PS103J2	10,000	J	3,890	Drawing	R-T Data
PS203J2	20,000	J	3,890	Drawing	R-T Data
PS303J2	30,000	J	3,890	Drawing	R-T Data
PS503J2	50,000	J	3,890	Drawing	R-T Data
PS503R2	50,000	R	4,140	Drawing	R-T Data
PS104J2	100,000	J	3,892	Drawing	R-T Data
PS104R2	100,000	R	4,140	Drawing	R-T Data

* 0.125" maximum diameter over epoxy coating

STANDARD PRECISION INTERCHANGEABLE THERMISTORS (150°C) ± 0.2°C ACCURACY- BARE LEADS					
Part Number (±0.2°C 0-70°C)	Resistance Ohms@ 25°C	R-T Curve	Beta (K) 0-50°C	Download/view	
PT102J2*	1,000	J	3,890	Drawing	R-T Data
PT222J2	2,252	J	3,890	Drawing	R-T Data
PT302J2	3,000	J	3,890	Drawing	R-T Data
PT502J2	5,000	J	3,890	Drawing	R-T Data
PT602J2	6,000	J	3,890	Drawing	R-T Data
PT103G2	10,000	G	3,575	Drawing	R-T Data
PT103J2	10,000	J	3,890	Drawing	R-T Data
PT203J2	20,000	J	3,890	Drawing	R-T Data

PT303J2	30,000	J	3,890	Drawing	R-T Data
PT503J2	50,000	J	3,890	Drawing	R-T Data
PT503R2	50,000	R	4,140	Drawing	R-T Data
PT104J2	100,000	J	3,892	Drawing	R-T Data
PT104R2	100,000	R	4,140	Drawing	R-T Data

* 0.125" maximum diameter over epoxy coating

STANDARD PRECISION INTERCHANGEABLE THERMISTORS (135°C) ± 0.1°C ACCURACY-INSULATED LEADS					
Part Number (±0.1°C 0-70°C)	Resistance Ohms @ 25°C	R-T Curve	Beta (K) 0-50°C	Download/view	
KS102J2*	1,000	J	3,890	Drawing	R-T Data
KS222J2	2,252	J	3,890	Drawing	R-T Data
KS302J2	3,000	J	3,890	Drawing	R-T Data
KS502J2	5,000	J	3,890	Drawing	R-T Data
KS602J2	6,000	J	3,890	Drawing	R-T Data
KS103G2	10,000	G	3,575	Drawing	R-T Data
KS103J2	10,000	J	3,890	Drawing	R-T Data
KS203J2	20,000	J	3,890	Drawing	R-T Data
KS303J2	30,000	J	3,890	Drawing	R-T Data
KS503J2	50,000	J	3,890	Drawing	R-T Data
KS503R2	50,000	R	4,140	Drawing	R-T Data
KS104R2	100,000	R	4,140	Drawing	R-T Data

* 0.125" maximum diameter over epoxy coating

STANDARD PRECISION INTERCHANGEABLE THERMISTORS (135°C) ± 0.2°C ACCURACY-INSULATED LEADS					
Part Number (±0.2°C 0-70°C)	Resistance Ohms @ 25°C	R-T Curve	Beta (K) 0-50°C	Download/view	
KT102J2*	1,000	J	3,890	Drawing	R-T Data
KT222J2	2,252	J	3,890	Drawing	R-T Data
KT302J2	3,000	J	3,890	Drawing	R-T Data
KT502J2	5,000	J	3,890	Drawing	R-T Data
KT602J2	6,000	J	3,890	Drawing	R-T Data
KT103G2	10,000	G	3,575	Drawing	R-T Data
KT103J2	10,000	J	3,890	Drawing	R-T Data
KT203J2	20,000	J	3,890	Drawing	R-T Data
KT303J2	30,000	J	3,890	Drawing	R-T Data
KT503J2	50,000	J	3,890	Drawing	R-T Data
KT503R2	50,000	R	4,140	Drawing	R-T Data
KT104R2	100,000	R	4,140	Drawing	R-T Data

* 0.125" maximum diameter over epoxy coating

The information contained herein is believed to be accurate. The user, however, should verify the suitability of a particular product for a specific application. U.S. Sensor Corp. does not warrant the accuracy of this information, and disclaims any liability with respect to its use.



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