



Precision Interchangeable Thermistors 0.5°C and 1.0°C Accuracy

U.S. Sensor's 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.

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Markets and Applications

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Features

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

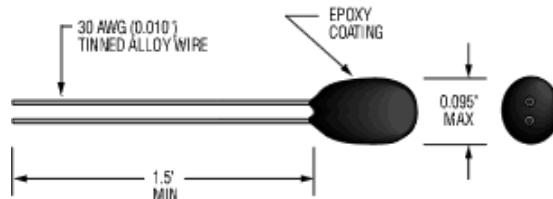
Options

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

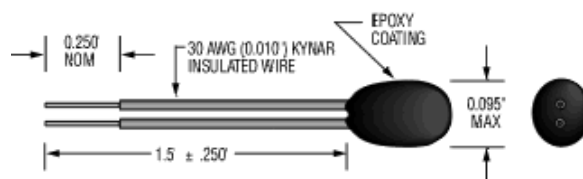
Specifications

- 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 ±0.5°C or ±1.0°C from 0-70°C
- Operating temperature: KW and KX series -80°C to +135°C, PW and PX series -80°C to +150°C
- Storage and operation temperatures for best long term stability: -80° to +120°C

"PW" & "PX" Series




"KW" & "KX" Series



[View Photo](#)













PRECISION INTERCHANGEABLE THERMISTORS (135°C) ± 0.5°C Accuracy - Insulated Leads

Part Number (±0.5°C 0-70°C)	Resistance Ohms @25°C	R-T Curve	Beta (K) 0-50°C	View R-T Chart
KW102J2*	1000	J	3890	
KW222J2	2252	J	3890	
KW302J2	3000	J	3890	
KW502J2	5000	J	3890	
KW602J2	6000	J	3890	
KW103G2	10000	G	3575	
KW103J2	10000	J	3890	
KW203J2	20000	J	3890	
KW303J2	30000	J	3890	
KW503J2	50000	J	3890	

KW503R2	50000	R	4140	
KW104R2	100000	R	4140	













* 0.125" maximum diameter over epoxy coating

**PRECISION INTERCHANGEABLE THERMISTORS (135°C)
± 1.0°C Accuracy - Insulated Leads**

Part Number (±1.0°C 0-70°C)	Resistance Ohms @25°C	R-T Curve	Beta (K) 0-50°C	View R-T Chart
KX102J2*	1000	J	3890	
KX222J2	2252	J	3890	
KX302J2	3000	J	3890	
KX502J2	5000	J	3890	
KX602J2	6000	J	3890	
KX103G2	10000	G	3575	
KX103J2	10000	J	3890	
KX203J2	20000	J	3890	
KX303J2	30000	J	3890	
KX503J2	50000	J	3890	
KX503R2	50000	R	4140	
KX104R2	100000	R	4140	













* 0.125" maximum diameter over epoxy coating

**PRECISION INTERCHANGEABLE THERMISTORS (150°C)
± 0.5°C Accuracy - Bare Leads**

Part Number (±0.5°C 0-70°C)	Resistance Ohms @25°C	R-T Curve	Beta (K) 0-50°C	View R-T Chart
PW102J2*	1000	J	3890	
PW222J2	2252	J	3890	
PW302J2	3000	J	3890	
PW502J2	5000	J	3890	
PW602J2	6000	J	3890	
PW103G2	10000	G	3575	
PW103J2	10000	J	3890	
PW203J2	20000	J	3890	
PW303J2	30000	J	3890	
PW503J2	50000	J	3890	
PW503R2	50000	R	4140	
PW104R2	100000	R	4140	

* 0.125" maximum diameter over epoxy coating

**PRECISION INTERCHANGEABLE THERMISTORS (150°C)
± 1.0°C Accuracy - Bare Leads**

Part Number (±1.0°C 0-70°C)	Resistance Ohms @25°C	R-T Curve	Beta (K) 0-50°C	View R-T Chart
PX102J2*	1000	J	3890	
PX222J2	2252	J	3890	
PX302J2	3000	J	3890	
PX502J2	5000	J	3890	
PX602J2	6000	J	3890	
PX103G2	10000	G	3575	
PX103J2	10000	J	3890	
PX203J2	20000	J	3890	
PX303J2	30000	J	3890	
PX503J2	50000	J	3890	
PX503R2	50000	R	4140	
PX104R2	100000	R	4140	

* 0.125" maximum diameter over epoxy coating

