Standard Precision Interchangeable NTC Thermistors 0.1°C and 0.2°C Accuracy

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U.S. Sensor's standard precision interchangeable NTC thermistors are low cost, highly accurate, stable devices designed specifically for temperature sensing and control applications. This NTC thermistor is epoxy coated and is offered with both insulated and uninsulated lead wires. These NTC Thermistors are particularly suited for uses where their precision interchangeability eliminates the necessity for costly individual circuit calibration. The NTC thermistors are also suitable for use in various temperature probe configurations. U.S. Sensor application engineers are available to assist with special thermistor requirements. Please contact engineering@ussensor.com for more information about our NTC thermistors.

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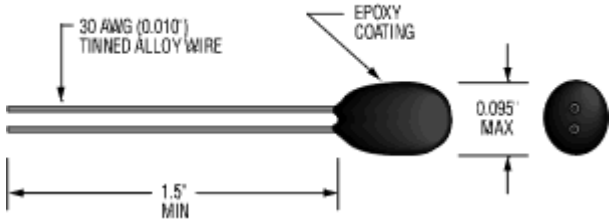
Features for Standard Precision Interchangeable NTC Thermistors

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

Options for Standard Precision Interchangeable NTC Thermistors

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

"PS" & "PT" Series



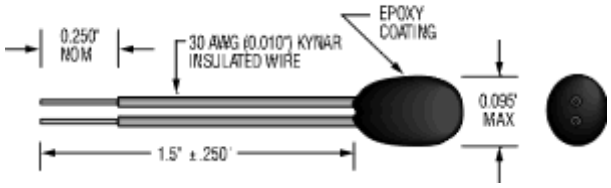
"KS" & "KT" Series

Specifications for Standard Precision Interchangeable NTC Thermistors

- 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



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- 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

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**	**View R-T Chart**
PS102J2*	1000	J	3890	
PS222J2	2252	J	3890	
PS302J2	3000	J	3890	
PS502J2	5000	J	3890	
PS602J2	6000	J	3890	
PS103G2	10000	G	3575	
PS103J2	10000	J	3890	
PS203J2	20000	J	3890	
PS303J2	30000	J	3890	
PS503J2	50000	J	3890	
PS503R2	50000	R	4140	
PS104R2	100000	R	4140	

*** 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**	**View R-T Chart**
PT102J2*	1000	J	3890	
PT222J2	2252	J	3890	
PT302J2	3000	J	3890	
PT502J2	5000	J	3890	
PT602J2	6000	J	3890	
PT103G2	10000	G	3575	
PT103J2	10000	J	3890	

PT203J2	20000	J	3890	
PT303J2	30000	J	3890	
PT503J2	50000	J	3890	
PT503R2	50000	R	4140	
PT104R2	100000	R	4140	

*** 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**	**View R-T Chart**
KS102J2*	1000	J	3890	
KS222J2	2252	J	3890	
KS302J2	3000	J	3890	
KS502J2	5000	J	3890	
KS602J2	6000	J	3890	
KS103G2	10000	G	3575	
KS103J2	10000	J	3890	
KS203J2	20000	J	3890	
KS303J2	30000	J	3890	
KS503J2	50000	J	3890	
KS503R2	50000	R	4140	
KS104R2	100000	R	4140	

*** 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**	**View R-T Chart**
KT102J2*	1000	J	3890	
KT222J2	2252	J	3890	
KT302J2	3000	J	3890	
KT502J2	5000	J	3890	
KT602J2	6000	J	3890	
KT103G2	10000	G	3575	
KT103J2	10000	J	3890	
KT203J2	20000	J	3890	
KT303J2	30000	J	3890	
KT503J2	50000	J	3890	
KT503R2	50000	R	4140	

KT104R2	100000	R	4140	

*** 0.125" maximum diameter over epoxy coating**

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