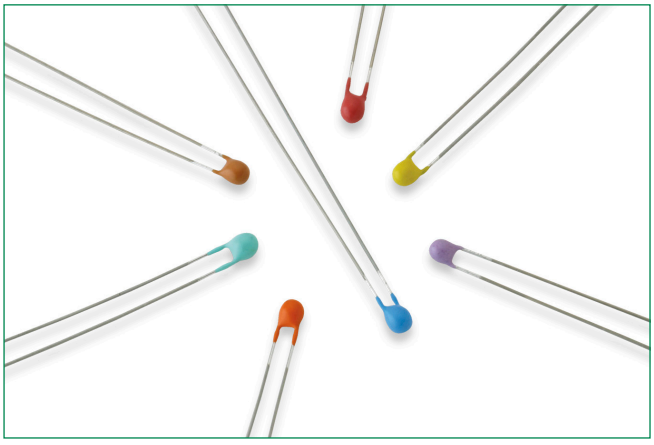
KS Series Standard Precision Interchangeable Thermistors



Description

Littelfuse 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.

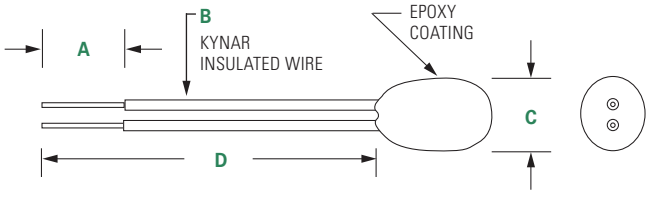
Options

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

Features

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

Dimensions



Dimensions shown in inches.

A	B	C	D
0.250″ Nom	30 AWG 0.010″	0.095″ Max	1.5″ ±0.250″

Part Numbering System

KS 10 2 J 2

- KS — **Series**
- 10 — **Resistance @ 25°C** Base Value
- 2 — Multiplier, power of 10
  Ex. 102 = 10 Ω x 10^2 = 1,000 Ω
- J — **R-T Curve**
- 2 — No Significance

Note: Not all combinations of Part Number codes are available. Contact Littelfuse for details.

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Specifications are subject to change without notice.

KS Series Standard Precision Interchangeable Thermistors

Specifications

Part Number	Resistance Ohms @25°C	Accuracy (±°C) 0-70°C	R-T Curve	Temperature Coefficient (% / °C) @ 25°C	Beta (K) 0-50°C	Max. Power Rating (mW)	Dissipation Constant, Nominal (mW/°C)	Thermal Time Constant, Max. - Still Air (seconds)	Thermal Time Constant, Max. - Well Stirred Oil (seconds)	Temperature Rating (°C)	Storage & Operation Temp for Best L/T Stability (°C)
KS102J2	1000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS222J2	2252	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS302J2	3000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS502J2	5000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS602J2	6000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS103G2	10000	±0.1°C	G	-4.04	3575	30	1	10	1	-80 to +135	-80 to +75
KS103J2	10000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS103J34	10000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS203J2	20000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS303J2	30000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS503J2	50000	±0.1°C	J	-4.4	3892	30	1	10	1	-80 to +135	-80 to +75
KS503R2	50000	±0.1°C	R	-4.68	4140	30	1	10	1	-80 to +135	-80 to +75
KS104R2	100000	±0.1°C	R	-4.68	4140	30	1	10	1	-80 to +135	-80 to +75

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