KW Series 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.

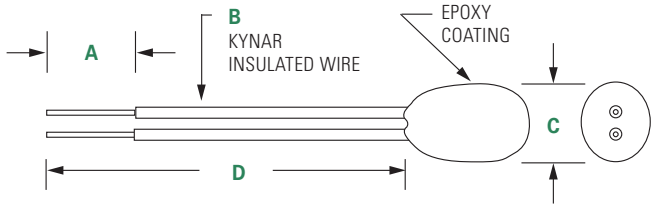
Options

- 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

KW 10 2 J 2

- **Series**
- **Resistance @ 25°C** Base Value
- Multiplier, power of 10
  Ex. 102 = 10 Ω x 10^2 = 1,000 Ω
- **R-T Curve**
- 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.

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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	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)
KW102J2	1000	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW222J2	2252	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW302J2	3000	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW502J2	5000	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW602J2	6000	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW103G2	10000	±0.5°C	G	-4.04	3575	1	10	1	-80 to +135	-80 to +120
KW103J2	10000	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW203J2	20000	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW303J2	30000	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW503J2	50000	±0.5°C	J	-4.4	3892	1	10	1	-80 to +135	-80 to +120
KW503R2	50000	±0.5°C	R	-4.68	4140	1	10	1	-80 to +135	-80 to +120
KW104R2	100000	±0.5°C	R	-4.68	4140	1	10	1	-80 to +135	-80 to +120

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