

KC Series Miniature Thermistors



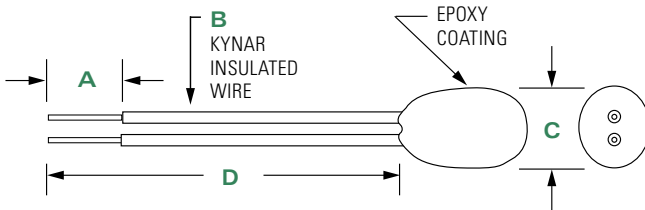
Description

Littelfuse miniature leaded epoxy coated thermistors are manufactured using the same state of the art manufacturing techniques as those used to produce Littelfuse precision interchangeable devices. This results in devices with superior long-term reliability characteristics especially suitable for temperature measurement, temperature control and temperature compensation applications.

Options

- Non-standard resistance values and tolerances
- Special lead materials and lengths
- Special encapsulants or probe housings
- Point matched at specified temperatures

Dimensions



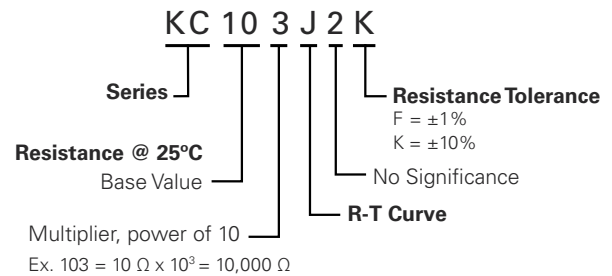
Dimensions shown in inches.

A	B	C	D
0.2500" Nom	28 AWG 0.013"	0.0095" Max	1.5" ±0.250"

Features

- Kynar insulated lead wires
- Low cost
- High reliability
- Epoxy encapsulated
- Small size
- Fast thermal response time

Part Numbering System



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

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Specifications

Part Number	Resistance Ohms @25°C	*Resistance Tol. ± % @ 25°C	R-T Curve	Temperature Coefficient (% / °C) @ 25°C	Beta (K) 0-50°C	Beta (K) 25-50°C	Dissipation Constant, Nominal (mW/°C)	Thermal Time Constant, Max. - Still Air (seconds)	Thermal Time Constant, Max. - Well Stirred Oil (seconds)	Temperature Rating (°C)
KC101B2K	100	10	B	-3.3	2941	—	1	10	1	-55 to +100
KC102F2K	1000	10	F	-3.86	3419	—	1	10	1	-55 to +135
KC222J2K	2252	10	J	-4.4	3892	—	1	10	1	-55 to +135
KC302J2K	3000	10	J	-4.4	3892	—	1	10	1	-55 to +135
KC502J2K	5000	10	J	-4.4	3892	—	1	10	1	-55 to +135
KC103G2K	10000	10	G	-4.04	3575	—	1	10	1	-55 to +135
KC103J2K	10000	10	J	-4.4	3892	—	1	10	1	-55 to +135
KC203J2K	20000	10	J	-4.4	3892	—	1	10	1	-55 to +135
KC203N3F	20000	1	N1	-4.5	—	4050	—	—	—	-55 to +125
KC303J2K	30000	10	J	-4.4	3892	—	1	10	1	-55 to +135
KC503J2K	50000	10	J	-4.4	3892	—	1	10	1	-55 to +135
KC104R2K	100000	10	R	-4.68	4140	—	1	10	1	-55 to +135

* Resistance tolerances of ± 1%, 2%, and 5% are available upon request

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: www.littelfuse.com/disclaimer-electronics