

TC Series Miniature Thermistors



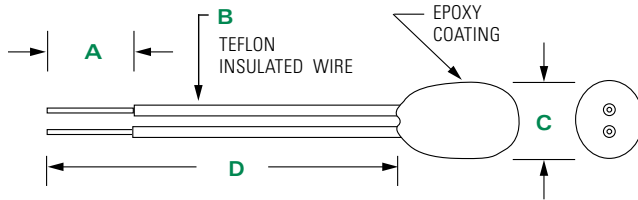
Description

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



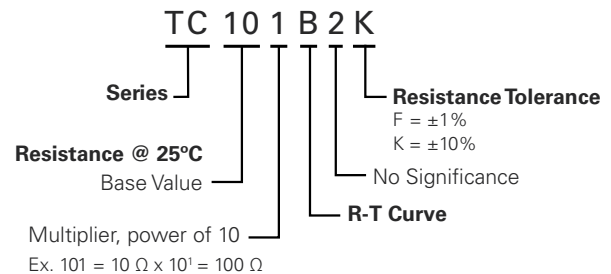
Dimensions shown in inches.

A	B	C	D
0.250" Nom	28 AWG 0.013"	0.095" Max	1.5" ±0.250"

Features

- Low cost
- High stability
- 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	Dissipation Constant, Nominal (mW/°C)	Thermal Time Constant, Max. - Still Air (seconds)	Thermal Time Constant, Max. - Well Stirred Oil (seconds)	Temperature Rating (°C)
TC101B2K	100	10	B	-3.3	2941	1	10	1	-55 to +100
TC102F2K	1000	10	F	-3.86	3419	1	10	1	-55 to +150
TC222J2K	2252	10	J	-4.4	3892	1	10	1	-55 to +150
TC302J2K	3000	10	J	-4.4	3892	1	10	1	-55 to +150
TC502J2K	5000	10	J	-4.4	3892	1	10	1	-55 to +150
TC103G2K	10000	10	G	-4.04	3575	1	10	1	-55 to +150
TC103J2K	10000	10	J	-4.4	3892	1	10	1	-55 to +150
TC203J2K	20000	10	J	-4.4	3892	1	10	1	-55 to +150
TC303J2K	30000	10	J	-4.4	3892	1	10	1	-55 to +150
TC503J2K	50000	10	J	-4.4	3892	1	10	1	-55 to +150
TC104R2K	100000	10	R	-4.68	4140	1	10	1	-55 to +150

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

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