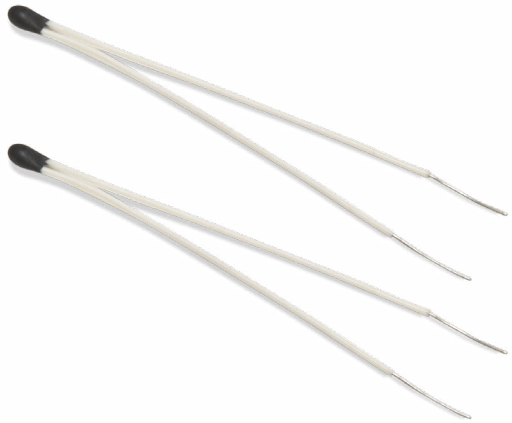
Leaded Thermistors
NXK Series

Epoxy-Coated, Kynar-Insulated NTC Thermistor

REACH RoHS



Description

The NXK series miniature, leaded, epoxy-coated thermistors are versatile sensors suitable for applications where low cost is a primary consideration. The NXK series is manufactured using the same state-of-the-art manufacturing techniques as those used to produce the Littelfuse precision interchangeable devices. The result is a product with superior, long-term reliability characteristics suitable for temperature measurement, temperature control, and temperature compensation applications. These thermistors feature Kynar-insulated lead wires and are epoxy-encapsulated for optimum performance. Options include non-standard resistance values and tolerances, special lead materials and lengths, and point matching at specified temperatures.

Features

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

Benefits

- Precision accuracy
- Superior reliability
- Cost-effective
- High reliability
- Versatility

Applications

- Automotive
- Medical devices
- Wind turbines
- Personal computers
- Aerospace devices
- Fire alarms
- Temperature measurement, control, and compensation applications

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Specifications

PART NUMBER	RESISTANCE IN OHMS AT 25 °C (Ω)	RESISTANCE TOLERANCE ± % @ 25 °C	BETA K 0–50 °C	OPERATING TEMPERATURE MAX °C	TEMPERATURE COEFFICIENT @ 25 °C	RESISTANCE-TEMPERATURE CURVE
NXKE103K3T1NEE001	10000	10	3892	125	-4.4% / °C	J
NXKF104K4C1NEH001	100000	10	4140	125	-4.68% / °C	R

Certification & Compliance

REACH	Reach Regulation (EC) No. 1907/2006
RoHS	RoHS 2 Directive 2011/65/EU; Directive (EU) 2015/863

Part Numbering System

NXK F 104 K 4C1 N E H 0 01

- **Product Series**: Epoxy Coated, Kynar Insulated Lead Wires
- **Lead Gauge**: 28 AWG
- **Resistance**: 100,000 Ω
- **Resistance Tolerance**: ±10%
- **Beta Value/ß Temperature Range**: ß4140 °K, 0 °C to +50 °C
- **Beta Tolerance**: Nominal
- **Temperature Range**: -55 °C to +125 °C
- **Lead Length**: 78 inches ±2.0 inches
- **No Special Rating**
- **Internal Suffix**

Ordering Information

CATALOG NUMBER	PACKAGING
NXKE103K3T1NEE001	Bulk
NXKF104K4C1NEH001	Bulk

Electrical Specifications

RESISTANCE (25 °C) Ω	RESISTANCE TOLERANCE, ±%	ACCURACY (± °C)	TEMP, COEFFICIENT (%/°C)	BETA (K)	TEMP RATING (°C)	LEAD WIRE
100 to 100000	1 to 10	0.1 ~ 1	3.31 to 4.4	2000 ~ 5000	-80 ~ +135	Solid Conductor Kynar Insulated

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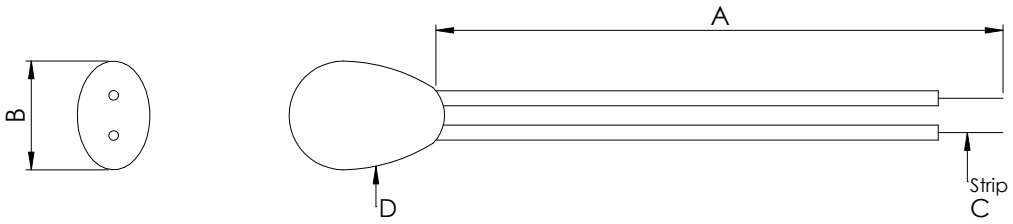
Dimensions Inches (mm)



A	B	C	D
0.50" ± 0.15" to 80.00" ± 2.00" (12.70mm ± 3.81mm to 2032 mm ± 50.80mm)	0.060" to 0.095" (1.524 to 2.413 mm)	0.250" ± 0.007" (6.35 ± 0.1778 mm) Strip length	Epoxy Coating

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