

# Leaded Thermistors

## NXU Series

Epoxy-Coated, Uninsulated NTC Thermistor

REACH RoHS



### Description

The NXU series leaded, epoxy-coated NTC thermistors are manufactured using state-of-the-art manufacturing techniques that result in a product with superior, long-term reliability characteristics suitable for temperature measurement, temperature control, and temperature compensation applications. These thermistors are epoxy-encapsulated for optimum performance and deliver precision accuracy with a fast thermal response time. Options include non-standard resistance values and tolerances, special lead materials and lengths, and point matching at specified temperatures.

### Features

- Low cost
- Epoxy-encapsulated
- Small size
- Fast thermal response time
- High stability

### Benefits

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

### 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 |
|-------------------|---------------------------------|----------------------------------|----------------|------------------------------|---------------------------------|------------------------------|
| NXUE502C3T1NFC001 | 5000                            | Nom                              | 3892           | 150                          | -4.4% / °C                      | J                            |
| NXUF103J3T1NFC001 | 10000                           | 5                                | 3892           | 150                          | -4.4% / °C                      | J                            |
| NXUJ103F3T1NFB001 | 10000                           | 1                                | 3892           | 150                          | -4.4% / °C                      | J                            |

### Certification & Compliance

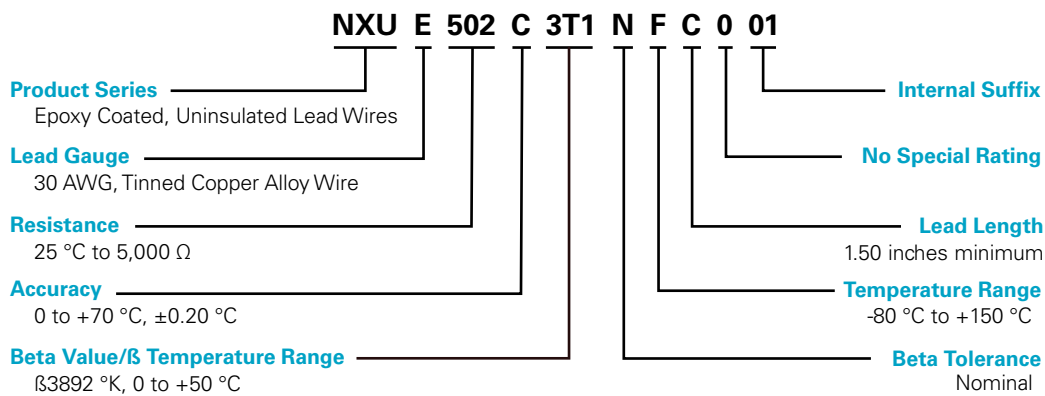
#### REACH

Reach Regulation (EC) No. 1907/2006

#### RoHS

RoHS 2 Directive 2011/65/EU; Directive (EU) 2015/863

### Part Numbering System



### Ordering Information

| CATALOG NUMBER    | PACKAGING |
|-------------------|-----------|
| NXUE502C3T1NFC001 | Bulk      |
| NXUF103J3T1NFC001 | Bulk      |
| NXUJ103F3T1NFB001 | Bulk      |

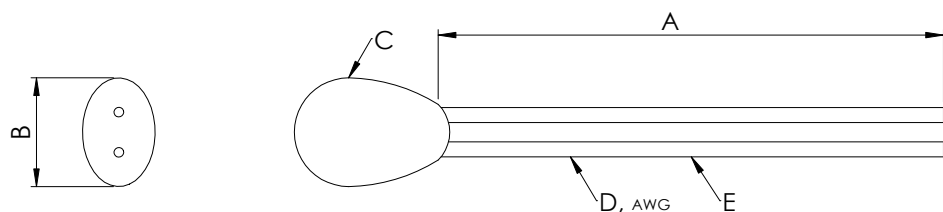
### Electrical Specifications

| RESISTANCE (25 °C) Ω | RESISTANCE TOLERANCE, ±% | ACCURACY (± °C) | TEMP. COEFFICIENT (%/°C) | BETA (K)    | TEMP RATING (°C) | DISSIPATION CONSTANT (MW/ °C) | THERMAL TIME CONSTANT(SEC) |
|----------------------|--------------------------|-----------------|--------------------------|-------------|------------------|-------------------------------|----------------------------|
| 100 to 100000        | 1 to 10                  | 0.1 ~ 1         | 3.31 to 4.4              | 2000 ~ 5000 | -55 ~ +150       | 2 ~ 4                         | 1 ~ 15                     |

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### Dimensions Inches (mm)



| A                                   | B                                     | C             | D           | E                      |
|-------------------------------------|---------------------------------------|---------------|-------------|------------------------|
| 0.500" ~ 1.500"<br>(12.7 ± 38.1 mm) | 0.080" ~ 0.150"<br>(2.032 to 3.81 mm) | Epoxy Coating | 20 ~ 34 AWG | Tinned Solderable Wire |

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