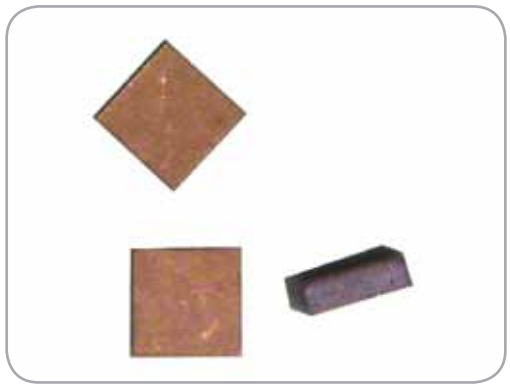
THERMOMETRICS
A COMMITMENT TO EXCELLENCE

# NTC Leadless Chips

## Thermometrics Thermistors



### Features

#### NTC Type HM

- Low cost, solid state temperature sensor
- Point matched at 77°F (25°C) to ±5% or ±10%
- Suitable for use over range of -112°F to 302°F (–80°C to 150°C)
- High sensitivity greater than –4%/°C at 77°F (25°C)
- Suitable for temperature measurement, control and compensation
- Palladium Silver contacts suitable for soldering or conductive epoxy bonding
- Sizes from 0.025 in x 0.025 in to 0.085 in x 0.085 in (0.63 mm x 0.63 mm to 2.15 mm x 2.15 mm) available
- Not suitable for immersion in fluids or high humidity

#### NTC Type NDU

- Designed for accurate temperature measurement, control and compensation
- Tight tolerances on resistance and B value
- Operation up to 311°F (155°C) with excellent stability
- Small body size
- Fast response
- Suitable for automotive, HVAC and white goods

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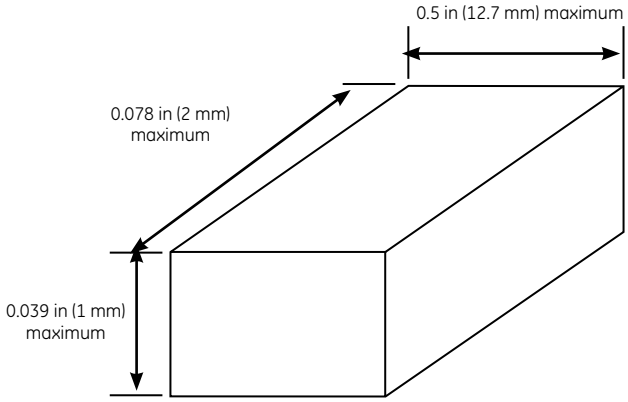
# Type NDU Specifications

Leadless chip thermistor

## Description

A range of leadless chip thermistors.




*NTC Type NDU dimensions*

## Options

Other resistance values in the range shown; e.g., code NDU152C2R1 for 1500 Ω ±1% at 77°F (25°C)

- Reference temperature in the range of 32°F (0°C) up to the maximum operating temperature
- Resistance value outside the ranges shown with modified dimensions

## Data

- Minimum operating temperature: -40°F (-40°C)
- Maximum operating temperature: See table below
- Resistance tolerance: ±3% or greater
- Electrode: Thick film silver
- Packaging/MOQ: 1000/box

| R25 Ω | Material System | B 25/85 K | Maximum temp. °F (°C) | Code R25 ± 3% | Code R25 ± 5% | Code R25 ± 10% |
|---|---|---|---|---|---|---|
| 1000 | 2 | 3540 ± 1% | 257 (125) | NDU102C2R3 | NDU102C2R5 | NDU102C2R10 |
| 2000 | 2 | 3540 ± 1% | 257 (125) | NDU202C2R3 | NDU202C2R5 | NDU202C2R10 |
| 5000 | 2 | 3540 ± 1% | 257 (125) | NDU502C2R3 | NDU502C2R5 | NDU502C2R10 |
| 1000 | 2A | 3627 ± 1% | 257 (125) | NDU102C2AR3 | NDU102C2AR5 | NDU102C2AR10 |
| 2000 | 2A | 3627 ± 1% | 257 (125) | NDU202C2AR3 | NDU202C2AR5 | NDU202C2AR10 |
| 5000 | 2A | 3627 ± 1% | 257 (125) | NDU502C2AR3 | NDU502C2AR5 | NDU502C2AR10 |
| 2700 | 1 | 3977± 0.75% | 311 (155) | NDU272C1R3 | NDU272C1R5 | NDU272C1R10 |
| 5000 | 1 | 3977± 0.75% | 311 (155) | NDU502C1R3 | NDU502C1R5 | NDU502C1R10 |
| 10000 | 1 | 3977± 0.75% | 311 (155) | NDU103C1R3 | NDU103C1R5 | NDU103C1R10 |
| 30000 | 1 | 3977± 0.75% | 311 (155) | NDU303C1R3 | NDU303C1R5 | NDU303C1R10 |
| 50000 | 1 | 3977± 0.75% | 311 (155) | NDU503C1R3 | NDU503C1R5 | NDU503C1R10 |
| 2700 | 3 | 3960± 1% | 311 (155) | NDU272C3R3 | NDU272C3R5 | NDU272C3R10 |
| 5000 | 3 | 3960± 1% | 311 (155) | NDU502C3R3 | NDU502C3R5 | NDU502C3R10 |
| 10000 | 3 | 3960± 1% | 311 (155) | NDU103C3R3 | NDU103C3R5 | NDU103C3R10 |
| 30000 | 3 | 3960± 1% | 311 (155) | NDU303C3R3 | NDU303C3R5 | NDU303C3R10 |
| 50000 | 3 | 3960± 1% | 311 (155) | NDU503C3R3 | NDU503C3R5 | NDU503C3R10 |
| 10000 | 4 | 3435 ± 1% | 230 (110) | NDU103C4R3 | NDU103C4R5 | NDU103C4R10 |
| 30000 | 4 | 3435 ± 1% | 230 (110) | NDU303C4R3 | NDU303C4R5 | NDU303C4R10 |
| 50000 | 4 | 3435 ± 1% | 230 (110) | NDU503C4R3 | NDU503C4R5 | NDU503C4R10 |

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