

T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# NTC Type NDP

Thermometrics  
Epoxy-Coated  
Chip Thermistor



## Description

A range of epoxy-coated chips with PFA/PTFE insulated 0.0078 in (0.25 mm) nickel lead-wires.

## Features

- 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
- Epoxy resin provides voltage insulation
- Suitable for automotive, HVAC and white goods applications
- RoHS compliant

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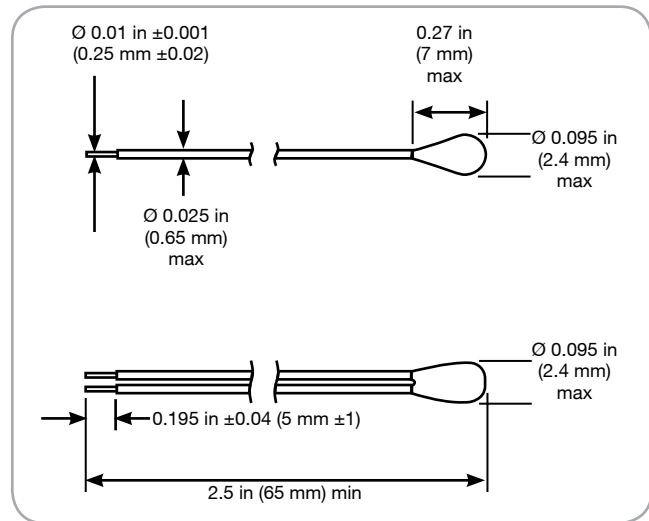
# Type NDP Specifications

## Options

- Other resistance values within the ranges shown; e.g. code NDP152C2R1 for  $1500 \pm 1\%$  at 77°F (25°C) in the range of 32°F (0°C) up to the maximum operating temperature
- Alternative reference temperatures
- Wire lengths 1.181 in to 23.62 in (30 mm to 600 mm) ( $\pm 1$  mm or  $\pm 2\%$ , whichever is the greater)
- Other wire materials
- Other wire insulation colors

## Data

- Operating temperature range: -40°F to 311°F (-40°C to 155°C)
- Thermal time constant: <10 s
- Dissipation factor: 1.5 mW/K
- Voltage insulation: 500 VDC
- Wire insulation: cadmium free red PTFE/PFA
- Packing: 500/box



NTC Type NDP Dimensions

R25 Ω	Material System	B Value 25/85°C K	Maximum Operating Temperature °F (°C)	Code R25°C ± 1%	Code R25°C ± 2%	Code R25°C ± 3%	Code R25°C ± 5%	Code R25°C ± 10%
1000	2	3540 ± 1%	257 (125)	NDP102C2R1	NDP102C2R2	NDP102C2R3	NDP102C2R5	NDP102C2R10
2000	2	3540 ± 1%	257 (125)	NDP202C2R1	NDP202C2R2	NDP202C2R3	NDP202C2R5	NDP202C2R10
5000	2	3540 ± 1%	257 (125)	NDP502C2R1	NDP502C2R2	NDP502C2R3	NDP502C2R5	NDP502C2R10
1000	2A	3627 ± 1%	257 (125)	NDP102C2AR1	NDP102C2AR2	NDP102C2AR3	NDP102C2AR5	NDP102C2AR10
2000	2A	3627 ± 1%	257 (125)	NDP202C2AR1	NDP202C2AR2	NDP202C2AR3	NDP202C2AR5	NDP202C2AR10
5000	2A	3627 ± 1%	257 (125)	NDP502C2AR1	NDP502C2AR2	NDP502C2AR3	NDP502C2AR5	NDP502C2AR10
2700	1	3977 ± 0.75%	311 (155)	NDP272C1R1	NDP272C1R2	NDP272C1R3	NDP272C1R5	NDP272C1R10
5000	1	3977 ± 0.75%	311 (155)	NDP502C1R1	NDP502C1R2	NDP502C1R3	NDP502C1R5	NDP502C1R10
10000	1	3977 ± 0.75%	311 (155)	NDP103C1R1	NDP103C1R2	NDP103C1R3	NDP103C1R5	NDP103C1R10
30000	1	3977 ± 0.75%	311 (155)	NDP303C1R1	NDP303C1R2	NDP303C1R3	NDP303C1R5	NDP303C1R10
50000	1	3977 ± 0.75%	311 (155)	NDP503C1R1	NDP503C1R2	NDP503C1R3	NDP503C1R5	NDP503C1R10
10000	4A	3436 ± 1%	311 (155)	NDP103C4AR1	NDP103C4AR2	NDP103C4AR3	NDP103C4AR5	NDP103C4AR10
12000	5	3740 ± 1%	257 (125)	NDP123C5R1	NDP123C5R2	NDP123C5R3	NDP123C5R5	NDP123C5R10

See separate tables for resistance - temperature data.

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