THERMOMETRICS
A COMMITMENT TO EXCELLENCE

NTC Type NDK

Thermometrics Epoxy-Coated Chip Thermistor



Description

A range of epoxy-coated chips with bare 0.007 in (0.2 mm) tinned monel 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
- Limited heat conduction along monel (copper nickel) lead-wires
- RoHS compliant

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Type NDK Specifications

Epoxy-coated chip thermistor

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)	NDK102C2R1	NDK102C2R2	NDK102C2R3	NDK102C2R5	NDK102C2R10
2000	2	3540 ± 1%	257 (125)	NDK202CR1	NDK202C2R2	NDK202C2R3	NDK202C2R5	NDK202C2R10
5000	2	3540 ± 1%	257 (125)	NDK502CR1	NDK502C2R2	NDK502C2R3	NDK502C2R5	NDK502C2R10
1000	2A	3627 ± 1%	257 (125)	NDK102C2AR1	NDK102C2AR2	NDK102C2AR3	NDK102C2AR5	NDK102C2AR10
2000	2A	3627 ± 1%	257 (125)	NDK202C2AR1	NDK202C2AR2	NDK202C2AR3	NDK202C2AR5	NDK202C2AR10
5000	2A	3627 ± 1%	257 (125)	NDK502C2AR1	NDK502C2AR2	NDK502C2AR3	NDK502C2AR5	NDK502C2AR10
2700	1	3977 ± 0.75%	311 (155)	NDK272C1R1	NDK272C1R2	NDK272C1R3	NDK272C1R5	NDK272C1R10
5000	1	3977 ± 0.75%	311 (155)	NDK502C1R1	NDK502C1R2	NDK502C1R3	NDK502C1R5	NDK502C1R10
10000	1	3977 ± 0.75%	311 (155)	NDK103C1R1	NDK103C1R2	NDK103C1R3	NDK103C1R5	NDK103C1R10
30000	1	3977 ± 0.75%	311 (155)	NDK303C1R1	NDK303C1R2	NDK303C1R3	NDK303C1R5	NDK303C1R10
50000	1	3977 ± 0.75%	311 (155)	NDK503C1R1	NDK503C1R2	NDK503C1R3	NDK503C1R5	NDK503C1R10
10000	4A	3436 ± 1%	311 (155)	NDK103C4AR1	NDK103C4AR2	NDK103C4AR3	NDK103C4AR5	NDK103C4AR10
12000	5	3740 ± 1%	257 (125)	NDK123C5R1	NDK123C5R2	NDK123C5R3	NDK123C5R5	NDK123C5R10

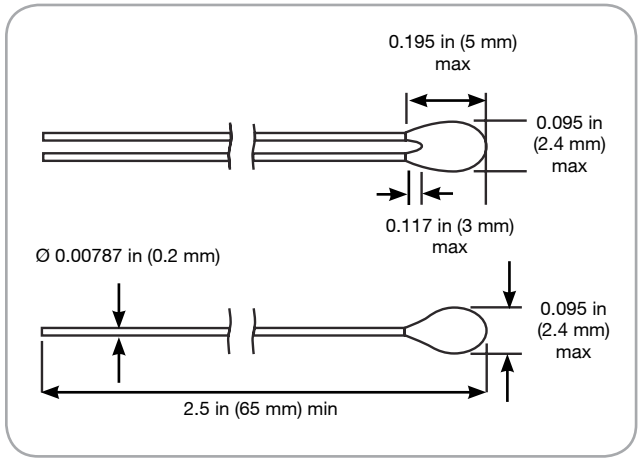
See separate tables for resistance - temperature data.

Options

- Other resistance values within the ranges shown; e.g., code NDK152C2R1 for 1500 Ω ±1% at 77°F (25°C) in the range of 32°F (0°C) up to the maximum operating temperature
- Reference temperatures
- Wire lengths 1.181 in to 23.62 in (30 mm to 600 mm) (±1 mm or ±2%, whichever is the greater)
- Other wire materials

Data

- Minimum operating temperature range: -40°F to 311°F (-40°C to 155°C)
- Thermal time constant: <10s
- Dissipation factor: 1.5 mW/K
- Voltage insulation: 500 VDC
- Packing/MOQ: 500/box



NTC Type NDK Dimensions

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