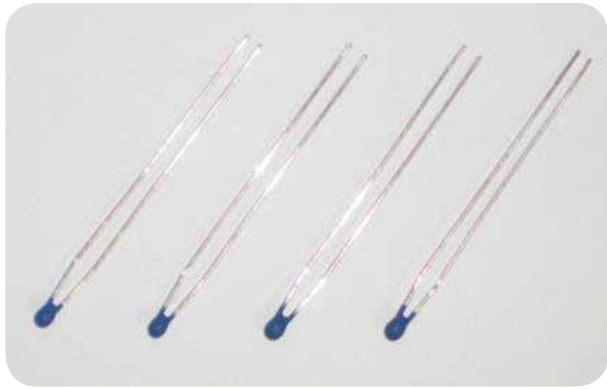
THERMOMETRICS
A COMMITMENT TO EXCELLENCE

NTC Type NK

Thermometrics Epoxy-Coated Chip Thermistor



Description

A range of NTC chip thermistors with tin coated steel wires and epoxy resin coating.

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 diameter
- Fast response
- Suitable for automotive, HVAC and white goods applications
- Available on bandolier to IEC 286-2
- RoHS compliant

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Type NK Specifications

Chip thermistor with solder-coated wires

Ordering Information

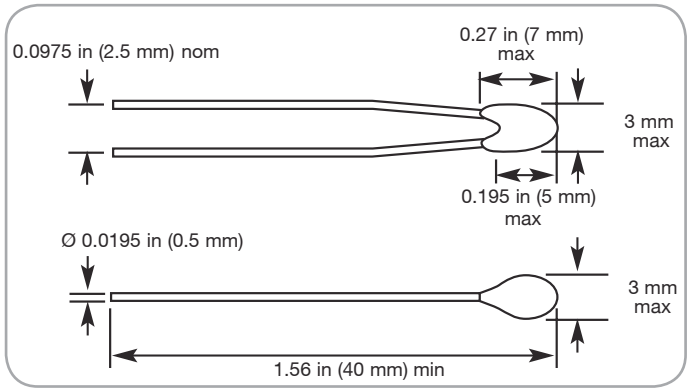
Replace * in the codes shown above as follows:

- Loose-packed: R
- Bandoliered: B

Options

Other resistance values within the ranges shown;

- e.g. code NK701C2*2 for 700 Ω ± 2% at 77°F (25°C)
- Reference temperatures other than 77°F (25°C)
- Wire lengths 0.47 in to 1.57 in (12 mm to 40 mm) (±1 mm)



NTC Type NK Dimensions

Data

- Minimum operating temperature: -40°F (-40°C)
- Maximum operating temperature: See table
- Thermal time constant: 15s (cooling), 2.45 (ambient change)
- Dissipation factor: 2.2 mW/K
- Mass: 0.00040 lbs (0.18 g)
- Packing/MOQ: 1000/box (loose)
  2000/reel (bandoliered)

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%
500	2	3540 ± 1%	257 (125)		NK501C2*2	NK501C2*3	NK501C2*5	NK501C*R10
500	2A	3627 ± 1%	257 (125)		NK501C2A*2	NK501C2A*3	NK501C2A*5	NK501C2A*10
1000	2	3540 ± 1%	257 (125)		NK102C2*2	NK102C2*3	NK102C2*5	NK102C2*10
1000	2A	3627 ± 1%	257 (125)		NK102C2A*2	NK102C2A*3	NK102C2A*5	NK102C2A*10
2000	2	3540 ± 1%	257 (125)		NK202C2*2	NK202C2*3	NK202C2*5	NK202C2*10
2000	2A	3627 ± 1%	257 (125)		NK202C2A*2	NK202C2A*3	NK202C2A*5	NK202C2A*10
2200	1	3977 ± 0.75%	311 (155)	NK222C1*1	NK222C1*2	NK222C1*3	NK222C1*5	NK222C1*10
2700	1	3977 ± 0.75%	311 (155)	NK272C1*1	NK272C1*2	NK272C1*3	NK272C1*5	NK272C1*10
5000	1	3977 ± 0.75%	311 (155)	NK502C1*1	NK502C1*2	NK502C1*3	NK502C1*5	NK502C1*10
5000	4A	3436 ± 1%	311 (155)	NK502C4A*1	NK502C4A*2	NK502C4A*3	NK502C4A*5	NK502C4A*10
10000	1	3977 ± 0.75%	311 (155)	NK103C1*1	NK103C1*2	NK103C1*3	NK103C1*5	NK103C1*10
10000	4A	3436 ± 1%	311 (155)	NK103C4A*1	NK103C4A*2	NK103C4A*3	NK103C4A*5	NK103C4A*10
10000	5	3740 ± 1%	311 (155)	NK103C5*1	NK103C5*2	NK103C5*3	NK103C5*5	NK103C5*10
12000	5	3740 ± 1%	311 (155)	NK123C5*1	NK123C5*2	NK123C5*3	NK123C5*5	NK123C5*10
30000	8	3977 ± 1%	311 (155)	NK303C8*1	NK303C8*2	NK303C8*3	NK303C8*5	NK303C8*10
50000	8	3977 ± 1%	311 (155)	NK503C8*1	NK503C8*2	NK503C8*3	NK503C8*5	NK503C8*10

See separate tables for resistance - temperature data.

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