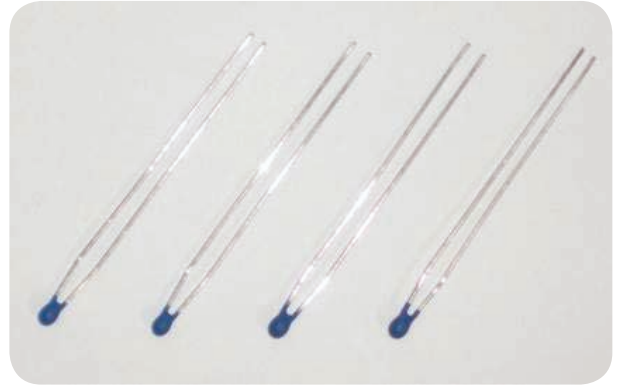


T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

NTC Type 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

Amphenol

Advanced Sensors

Type NK Specifications

Chip thermistor with solder-coated wires

Ordering Information

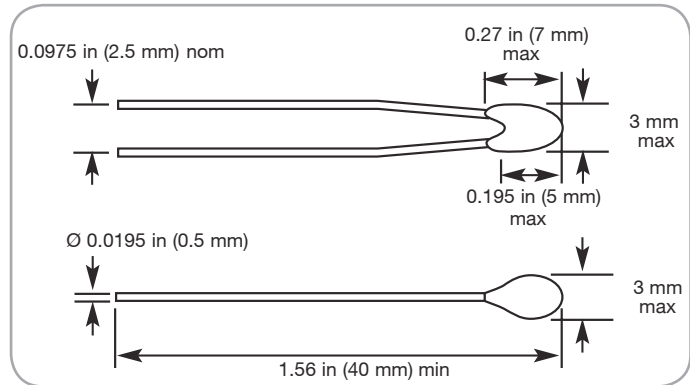
Replace * in the codes shown above as follows:

- Loose-packed: R
- Bandoliered: B

Options

Other resistance values within the ranges shown;

- e.g. code NK701C2*2 for 700 $\Omega \pm 2\%$ 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: 5,000/box (loose)
10,000/reel (bandoliered)

R25 Ω	Material System	B Value 25/85°C K	Maximum Operating Temperature °F (°C)	Code R25°C $\pm 1\%$	Code R25°C $\pm 2\%$	Code R25°C $\pm 3\%$	Code R25°C $\pm 5\%$	Code R25°C $\pm 10\%$
500	2	3540 $\pm 1\%$	257 (125)		NK501C2*2	NK501C2*3	NK501C2*5	NK501C*R10
500	2A	3627 $\pm 1\%$	257 (125)		NK501C2A*2	NK501C2A*3	NK501C2A*5	NK501C2A*10
1000	2	3540 $\pm 1\%$	257 (125)		NK102C2*2	NK102C2*3	NK102C2*5	NK102C2*10
1000	2A	3627 $\pm 1\%$	257 (125)		NK102C2A*2	NK102C2A*3	NK102C2A*5	NK102C2A*10
1800	2	3540 $\pm 1\%$	257 (125)		NK182C2*2	NK182C2*3	NK182C2*5	NK182C2*10
2000	2	3540 $\pm 1\%$	257 (125)		NK202C2*2	NK202C2*3	NK202C2*5	NK202C2*10
2000	2A	3627 $\pm 1\%$	257 (125)		NK202C2A*2	NK202C2A*3	NK202C2A*5	NK202C2A*10
2200	1	3977 $\pm 0.75\%$	311 (155)	NK222C1*1	NK222C1*2	NK222C1*3	NK222C1*5	NK222C1*10
2700	1	3977 $\pm 0.75\%$	311 (155)	NK272C1*1	NK272C1*2	NK272C1*3	NK272C1*5	NK272C1*10
3000	1	3977 $\pm 0.75\%$	311 (155)	NK302C1*1	NK302C1*2	NK302C1*3	NK302C1*5	NK302C1*10
5000	1	3977 $\pm 0.75\%$	311 (155)	NK502C1*1	NK502C1*2	NK502C1*3	NK502C1*5	NK502C1*10
5000	4A	3436 $\pm 1\%$	311 (155)	NK502C4A*1	NK502C4A*2	NK502C4A*3	NK502C4A*5	NK502C4A*10
10000	1	3977 $\pm 0.75\%$	311 (155)	NK103C1*1	NK103C1*2	NK103C1*3	NK103C1*5	NK103C1*10
10000	4A	3436 $\pm 1\%$	311 (155)	NK103C4A*1	NK103C4A*2	NK103C4A*3	NK103C4A*5	NK103C4A*10
10000	5	3740 $\pm 1\%$	311 (155)	NK103C5*1	NK103C5*2	NK103C5*3	NK103C5*5	NK103C5*10
12000	5	3740 $\pm 1\%$	311 (155)	NK123C5*1	NK123C5*2	NK123C5*3	NK123C5*5	NK123C5*10
30000	8	3977 $\pm 1\%$	311 (155)	NK303C8*1	NK303C8*2	NK303C8*3	NK303C8*5	NK303C8*10
50000	8	3977 $\pm 1\%$	311 (155)	NK503C8*1	NK503C8*2	NK503C8*3	NK503C8*5	NK503C8*10

See separate tables for resistance - temperature data.

Amphenol

Advanced Sensors

www.amphenol-sensors.com

© 2018 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice.
Other company names and product names used in this document are the registered trademarks or
trademarks of their respective owners.