



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



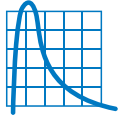
## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

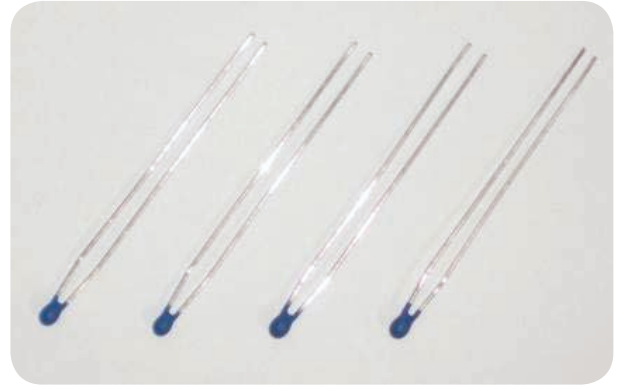




T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# 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

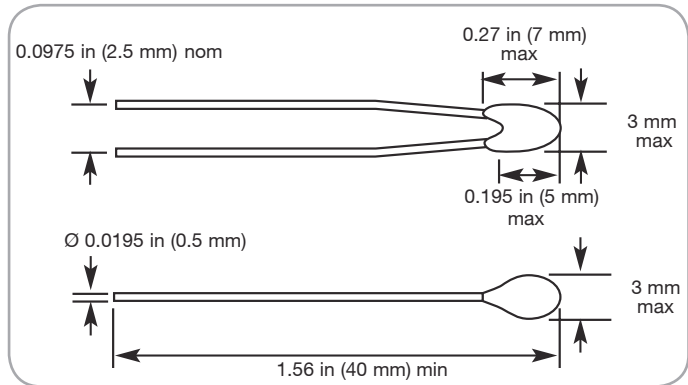
Replace \* in the codes shown above as follows:

- Loose-packed: R
- Bandoliered: B

## Options

Other resistance values within the ranges shown;

- e.g. code NK701C2\*2 for 700 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: 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 ± 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	
1800	2	3540 +/- 1%	257 (125)	NK182C2*2	NK182C2*3	NK182C2*5	NK182C2*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
3000	1	3977 +/- 0.75%	311 (155)	NK302C1*1	NK302C1*2	NK302C1*3	NK302C1*5	NK302C1*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.

**Amphenol**  
Advanced Sensors

[www.amphenol-sensors.com](http://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.