

# NTC Accurate Thermistors



## NJ 28 – NI 24 – NK 20

High precision resistance and an outstanding ability to reproduce the sensibility index B, make these ranges of products the types of thermistors ideal for temperature measurement applications.

Leaded or unleaded, these small size and rapid response time thermistors are able to meet the most accurate requirements.

Types	NJ 28	NP 30	NI 24	NK 20
Finish	Coated chip with phenolic resin + varnish + tinned copper wires	Coated chip with epoxy	Coated chip with epoxy AWG30 insulated leads + Silver plated nickel wires	Chip
<b>DIMENSIONS:</b> millimeters (inches)				
Marking	On packaging only			
Operating temperature	-55°C to +150°C			
Tolerance on R <sub>n</sub> (25°C)	±1%, ±2%, ±3%			
Maximum dissipation at 25°C	0.16 W			
Thermal dissipation factor*	3 mW/°C		3 mW/°C	2 mW/°C
Thermal time constant	8 s		8 s	6 s
Response time	< 2 s			

## TABLE OF VALUES

Types	R <sub>n</sub> at 25°C (Ω)	Material Code	B (K)	α at 25°C (%/°C)
N_ _ _ KA 0202	2,000	KA	3625 ± 1%	- 4.1
N_ _ _ MA 0302	3,000	MA	3960 ± 0.5%	- 4.5
N_ _ _ MA 0502	5,000	MA	3960 ± 0.5%	- 4.5
N_ _ _ MA 0103	10,000	MA	3960 ± 0.5%	- 4.5
N_ _ _ NA 0103	10,000	NA	4100 ± 1%	- 4.6
N_ _ _ PA 0203	20,000	PA	4235 ± 1%	- 4.8
N_ _ _ QA 0503	50,000	QA	4250 ± 1%	- 4.8
N_ _ _ RA 0104	100,000	RA	4380 ± 1%	- 4.9

\* -- = Add type as outlined above (Example NJ 28).

Resistance - Temperature characteristics: pages 36 to 40.

## HOW TO ORDER

**NJ28**



Type

**MA**



Material Code  
MA  
(See table above)

**0502**



Resistance  
5 kΩ

**F--**



Tolerance  
F (±1%)



# NTC Thermistors Manufacturing Process

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