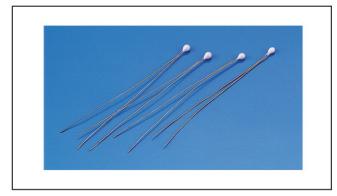


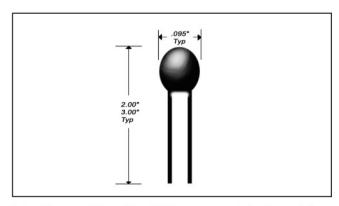
Interchangeable NTC Thermistors

IN Series



FEATURES:

- High accuracy tolerances to +/- 0.10°C
- Operating ranges from -50°C to 150°C
- Small size with ease of handling
- Proprietary processes produce top of the line quality and stability
- RoHS Compliance
- UL1434 Certification (IN-A010K Series)



Interchangeable refers to how accurately thermistors guarantee (R/T) curve over a range of temperatures. This allows every thermistor to be interchangeable with every other thermistor of the same series specifications without re-calibration of instrumentation.

SPECIFICATIONS

Temperature rating/ recommended operating

ranges

IN Series thermistors may be intermittently cycled at temperatures from -50°C to 150°C. Optimum

stability is achieved when they are operated at temperatures within the specified temperature range.

Temperature ranges -20°C to 50°C,

0°C to 50°C 20°C to 45°C, 0°C to 70°C, 0°C to 100°C

Tolerances

±0.10 °C, ±0.20 °C, ±0.50 °C, ±1.00 °C

R/T curve

IN Series thermistors are available

in all R/T curve materials.

Detailed curve material information

on pages 22-24.

Dissipation constant 2 mW/°C in still air

13 mW/°C in stirred oil

Thermal time constant Typically 0.75 second in stirred oil

Custom options Additional temperature and tolerance

ranges. Various lead materials,

diameters and lengths

ORDERING INFORMATION

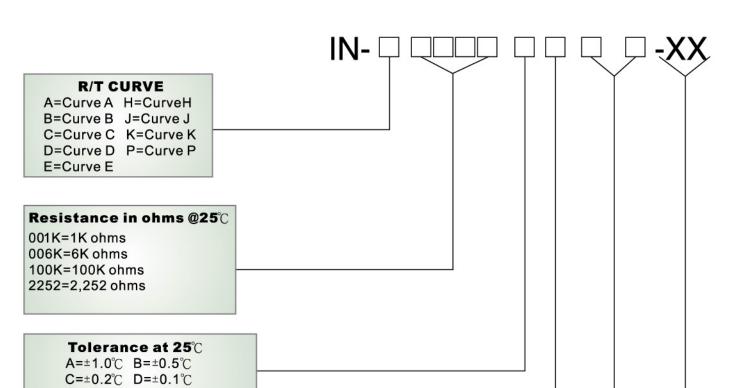
Examples of interchangeable NTC Thermistors - IN Series

Part#	R/T Curve	Res. In ohms @25°C	Tolerance	Tolerance Range	Lead Type	AWG	Coating	O.L.
IN-A001K-C3-14	Α	1K	±0.2℃	0 to 70℃	Tinned copper	30	ероху	2"
IN-A001K-D4-18-03	Α	1K	±0.1℃	0 to 100℃	Tinned alloy 180	32	epoxy	3"
IN-A010K-C3-14	Α	10 K	±0.2℃	0 to 70℃	Tinned copper	30	epoxy	2"
IN-A010K-D4-18-03	Α	10 K	±0.1°C	0 to 100℃	Tinned alloy 180	32	epoxy	3"
IN-A010K-C2-14	Α	10 K	± 0.2 ℃	-20 to 50°C	Tinned copper	30	epoxy	2"
IN-A100K-A1-14	Α	100 K	±1.0°C	20 to 45℃	Tinned copper	30	epoxy	2"
IN-A006K-C1-14	Α	6K	±0.2°C	20 to 45℃	Tinned copper	30	epoxy	2"
IN-A2252-D1- 14	Α	2,252	± 0.1° C	20 to 45℃	Tinned copper	30	epoxy	2"
IN-B030K-D3-07	В	30 K	±0.1℃	0 to 70°C	Tinned copper	32	epoxy	2"
IN-B100K-B1-14	В	100K	± 0.5 ℃	20 to 45℃	Tinned copper	30	epoxy	2"
IN-C010K-A3-14	С	10K	±1.0°C	0 to 70℃	Tinned copper	30	epoxy	2"
IN-D100K-A3-24	D	100K	± 1.0°C	0 to 70°C	Tinned copper	30	epoxy	3"



Interchangeable NTC Thermistors

IN Series - Order Map



Temperature Ranges

X=new letter assigned on specials

1=+20°C to 45°C 5=+20°C to 90°C 2=-20°C to 50°C 6=-40°C to 40°C 3= 0°C to 70°C 7=+50°C to 125°C 4= 0°C to 100°C 8= 0°C to 50°C 9=-20°C to 125°C X=new digit assigned on specials

2"Lea	Leads			3"Leads					
Code	AWG	Lead OD	Lead Type	Chip Coating	Code	AWG	Lead OD	Lead Type	Chip Coating
20	24	0.0197"	Tinned Copper	Ероху	30	24	0.0197"	Tinned Copper	Epoxy
21	26	0.0159"	Tinned Copper	Epoxy	31	26	0.0159"	Tinned Copper	Epoxy
22	28	0.0126"	Tinned Copper	Ероху	32	28	0.0126"	Tinned Copper	Epoxy
23	30	0.010"	Tinned Copper	Ероху	33	30	0.010"	Tinned Copper	Ероху
24	30	0.010"	Alloy 180	Ероху	34	30	0.010"	Alloy 180	Ероху
25	32	0.008"	Tinned Copper	Ероху	35	32	0.008"	Tinned Copper	Ероху
26	32	0.008"	Alloy 180	Ероху	36	32	0.008"	Alloy 180	Ероху

For optional lengths other than 2" or 3" substitute XX with lengths in inches