



啟心實業

ALLGUY International Co., Ltd.

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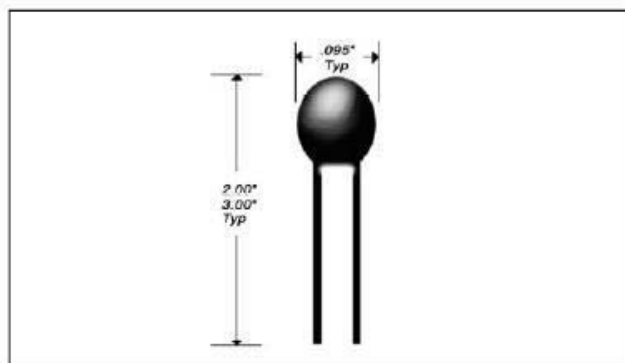
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Interchangeable NTC Thermistors

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

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 24-26.

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	A	1K	±0.2°C	0 to 70°C	Tinned copper	30	epoxy	2"
IN-A001K-D4-18-03	A	1K	±0.1°C	0 to 100°C	Tinned alloy 180	32	epoxy	3"
IN-A010K-C3-14	A	10 K	±0.2°C	0 to 70°C	Tinned copper	30	epoxy	2"
IN-A010K-D4-18-03	A	10 K	±0.1°C	0 to 100°C	Tinned alloy 180	32	epoxy	3"
IN-A010K-C2-14	A	10 K	±0.2°C	-20 to 50°C	Tinned copper	30	epoxy	2"
IN-A100K-A1-14	A	100 K	±1.0°C	20 to 45°C	Tinned copper	30	epoxy	2"
IN-A006K-C1-14	A	6K	±0.2°C	20 to 45°C	Tinned copper	30	epoxy	2"
IN-A2252-D1-14	A	2,252	±0.1°C	20 to 45°C	Tinned copper	30	epoxy	2"
IN-B030K-D3-07	B	30 K	±0.1°C	0 to 70°C	Tinned copper	32	epoxy	2"
IN-B100K-B1-14	B	100K	±0.5°C	20 to 45°C	Tinned copper	30	epoxy	2"
IN-C010K-A3-14	C	10K	±1.0°C	0 to 70°C	Tinned copper	30	epoxy	2"
IN-D100K-A3-24	D	100K	±1.0°C	0 to 70°C	Tinned copper	30	epoxy	3"
IN-G0300-B3-18-03	G	300	±0.5°C	0 to 70°C	Tinned alloy 180	32	epoxy	3"



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Interchangeable NTC Thermistors

IN Series - Order Map

IN- [] [] [] [] [] [] [] [] -XX

R/T CURVE
 A=Curve A H=Curve H
 B=Curve B J=Curve J
 C=Curve C K=Curve K
 D=Curve D P=Curve P
 E=Curve E

Resistance in ohms @25°C
 001K=1K ohms
 006K=6K ohms
 100K=100K ohms
 2252=2,252 ohms

Tolerance at 25°C
 A=±1.0°C B=±0.5°C
 C=±0.2°C D=±0.1°C
 X=new letter assigned on specials

Temperature Ranges
 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"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	Epoxy	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	Epoxy	32	28	0.0126"	Tinned Copper	Epoxy
23	30	0.010"	Tinned Copper	Epoxy	33	30	0.010"	Tinned Copper	Epoxy
24	30	0.010"	Alloy 180	Epoxy	34	30	0.010"	Alloy 180	Epoxy
25	32	0.008"	Tinned Copper	Epoxy	35	32	0.008"	Tinned Copper	Epoxy
26	32	0.008"	Alloy 180	Epoxy	36	32	0.008"	Alloy 180	Epoxy

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