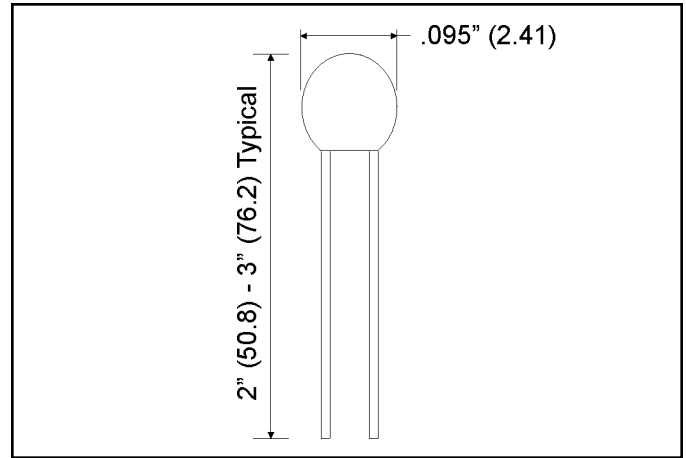
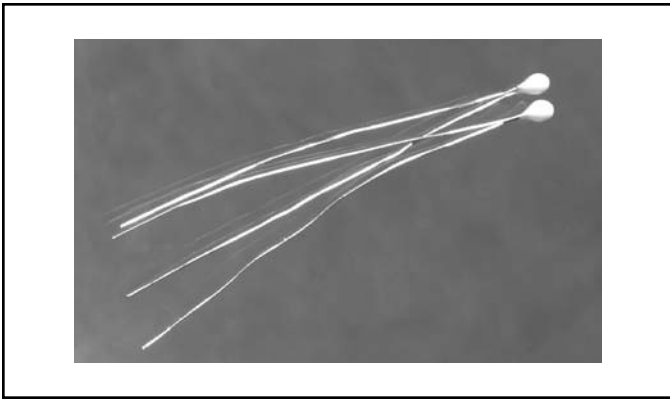


Interchangeable Thermistors

IN Series



FEATURES

- RoHS Compliant
- Small size with ease of handling
- High accuracy tolerance to $\pm 0.10^\circ\text{C}$
- Operating ranges from -50°C to 150°C
- Proprietary processes produce top of the line quality and stability

Interchangeable refers to how accurately thermistors follow the R/T curve over a range of temperatures. This allows every thermistor of the same series specifications to be exchangeable.

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.	R/T curves	IN Series thermistors are available in all R/T curve materials. Detailed curve material information on pages 26-27.
Temperature ranges	<ul style="list-style-type: none"> -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 	Dissipation constant	<ul style="list-style-type: none"> 2m W/°C in still air 13m W/°C in stirred oil
Tolerances	<ul style="list-style-type: none"> $\pm 0.10^\circ\text{C}$ $\pm 0.20^\circ\text{C}$ $\pm 0.50^\circ\text{C}$ $\pm 1.00^\circ\text{C}$ 	Thermal time constant	Typically 0.75 seconds in stirred oil
		Maximum power rating	30 mW at 25°C to 1mW at 100°C

Interchangeable Thermistors

IN Series - Order Map

ORDERING MAP

IN- - XX

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

Resistance in Ohms at 25°C
001K = 1K Ohms
003K = 3K Ohms
006K = 6K Ohms
010K = 10K Ohms
020K = 20K Ohms
030K = 30K 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	Y = ±0.25°C
assigned for specials	

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

2" Leads				
Code	AWG	Lead O.D.	Lead Type	Chip Coating
04	30	0.010"	Tinned Alloy	Uncoated
05	26	0.0169"	Tinned Copper	Epoxy
06	28	0.0126"	Tinned Copper	Epoxy
07	32	0.008"	Tinned Copper	Epoxy
08	30	0.010"	Nickel	Epoxy
09	26	0.0159"	Tinned Alloy 180	Epoxy
10	26	0.0159"	Tinned Copper	Epoxy
11	32	0.008"	Nickel	Epoxy
12	32	0.008"	Tinned Copper	Epoxy
13	30	0.010"	Tinned Alloy 180	Epoxy
14	30	0.010"	Tinned Copper	Epoxy
16	28	0.0126"	Tinned Copper	Epoxy
18	32	0.008"	Tinned Alloy 180	Epoxy
20	28	0.0126"	Nickel	Epoxy

3" Leads				
Code	AWG	Lead O.D.	Lead Type	Chip Coating
21	32	0.008"	Nickel	Epoxy
22	32	0.008"	Tinned Copper	Epoxy
24	30	0.010"	Tinned Copper	Epoxy
26	28	0.0126"	Tinned Copper	Epoxy
28	32	0.008"	Tinned Alloy 180	Epoxy
31	30	0.010"	Teflon	Epoxy
41*	30	0.010"	Ag/Cu Twisted Kynar	Epoxy

* 6K to 30K only

For optional lengths other than 2" or 3" substitute XX with lengths in inches
Example: 04 = 4.0"

Custom designs are available, please fax or e-mail us your requirements

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