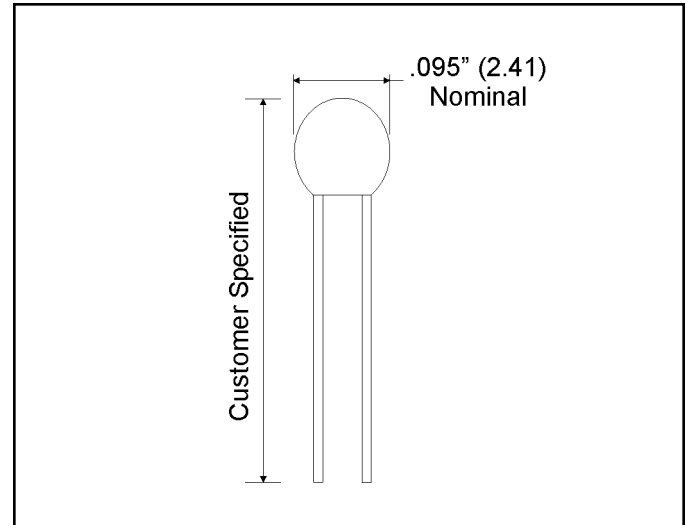
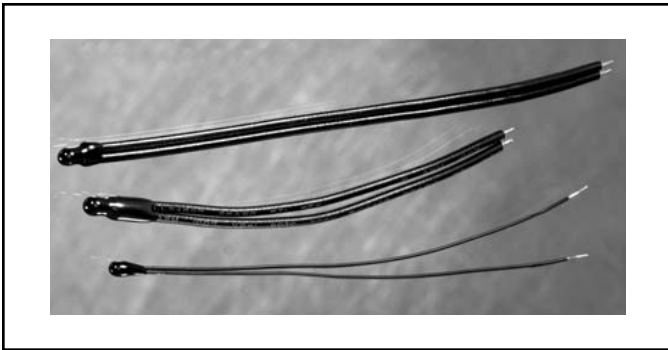


Custom NTC Thermistors

CS Series



FEATURES

- Customer specified
- Various material options
- Modified stock or new custom design
- Available in Point Matched or Interchangeable tolerances

CS Series thermistors are designed to meet your specific application requirements. For “turn-key” solutions, their value-added features can significantly reduce your labor costs. Contact our applications engineering personnel for assistance in designing a standard thermistor into a custom thermistor to match your needs.

SPECIFICATIONS

Temperature rating/ recommended operating ranges	CS Series thermistors may be intermittently cycled at temperatures from -50°C to 150°C. Optimum stability is achieved when they are stored at temperatures less than 50°C and will operate continuously in temperatures less than 100°C. For CS Interchangeable Series thermistors, optimum stability is achieved when they are operated at temperatures within the specified temperature range.	Dissipation constant	1m W/°C in still air 8m W/°C in stirred oil
R/T curves	CS Series thermistors are available in all R/T curve materials. Detailed curve material information on pages 26-27.	Thermal time constant	Time constant varies depending on the configuration of each custom thermistor. Typically 1 second in stirred oil.
Tolerances	±0.10°C ±0.20°C ±0.25°C ±0.50°C ±1.00°C ±1% ±2% ±3% ±5% ±10%	Maximum power rating	30 mW at 25°C to 1mW at 100°C (used in 'self-heat' applications such as liquid level control and air flow sensing).
		Custom options	Various lead diameters, material and insulation materials, and lengths.

Custom NTC Thermistors

CS Series - Ordering Map

ORDERING MAP

CS - - XXXX

R/T Curve

A = Curve A	F = Curve F
B = Curve B	G = Curve G
C = Curve C	H = Curve H
D = Curve D	K = Curve K
E = Curve E	P = Curve P

Resistance in Ohms at 25°C

001K = 1K ohms
 005K = 5K ohms
 006K = 6K ohms
 010K = 10K ohms
 100K = 100K ohms
 2252 = 2,252 ohms
 1MEG = 1 million ohms

IN Type Only Tolerance at 25°C

A = ±1.0°C	C = ±0.2°C
B = ±0.5°C	D = ±0.1°C

X = new letter assigned for specials

PM Type Only Tolerance at 25°C

1 = 1%	0 = 10%
2 = 2%	A = 0.25°C
3 = 3%	B = 0.50°C
5 = 5%	X = letter or digit to be assigned for specials

IN Type Only 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°C
5 = +20°C to 90°C	X = new digit assigned for specials

PM Type Only Temperature Ranges

A = -20°C	D = 37°C
B = 0°C	E = 70°C
C = 25°C	F = 100°C

X = digit to be assigned for specials

XXXX = System file number assigned

TO ORDER SPECIFY ALL ITEMS BELOW

- Lead wire length
- Wire gauge size
- Solid or stranded wire
- Connections if required (Molex, Amp or other)
- Blunt or stripped end and length of stripped wire
- Insulation material (Isomid, Kynar, Nylon, PVC, Teflon, etc.)

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