THERMOMETRICS
A COMMITMENT TO EXCELLENCE

NTC Type C100

Thermometrics Epoxy-Coated Chip Thermistor

Description

Epoxy-coated chip thermistors with 0.012 in (0.3 mm) bare tinned-copper lead-wires.

Features

- Low cost, solid state temperature sensor
- Suitable for use over range of -112°F to 302°F (–80°C to 150°C)
- High sensitivity greater than –4% /°C at 77°F (25°C)
- Suitable for temperature measurement, control and compensation
- High reliability and stability
- Resin coated for good mechanical strength and resistance to solvents

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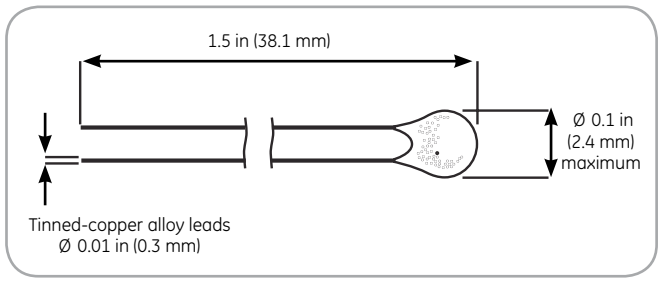
Specifications

Epoxy-coated chip thermistor

Select appropriate part number below for resistance and temperature tolerance desired.

R25°C	Material System	R25°C ± 1%	R25°C ± 2%	R25°C ± 5%	R25°C ± 10%
2000	F	C100F202F	C100F202G	C100F202J	C100F202K
2252	F	C100F232F	C100F232G	C100F232J	C100F232K
3000	F	C100F302F	C100F302G	C100F302J	C100F302K
5000	F	C100F502F	C100F502G	C100F502J	C100F502K
10000	F	C100F103F	C100F103G	C100F103J	C100F103K
10000	Y	C100Y103F	C100Y103G	C100Y103J	C100Y103K
15000	F	C100F153F	C100F153G	C100F153J	C100F153K
20000	F	C100F203F	C100F203G	C100F203J	C100F203K
30000	H	C100H303F	C100H303G	C100H303J	C100H303K
50000	G	C100G503F	C100G503G	C100G503J	C100G503K
100000	Y	C100Y104F	C100Y104G	C100Y104J	C100Y104K
100000	G	C100G104F	C100G104G	C100G104J	C100G104K



NTC Type C100 Dimensions

Options

Consult Thermometrics for availability of options:

- Other resistance values in the range of 100 Ω to 100 kΩ
- Other tolerances
- Alternative lead lengths
- Other reference temperatures
- Alternative lead wires or lengths

Data

Thermal And Electrical Properties:

- Dissipation constant: (still air) 1 mW/°C (stirred oil) 8 mW/°C
- Thermal time constant: (still air) 10 seconds (stirred oil) 1 second
- Maximum power at 77°F (25°C) 75 mW; derated from 100% at 77°F (25°C) to 0% at 212°F (100°C)

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