



T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

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 $-4\% / ^\circ\text{C}$ 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

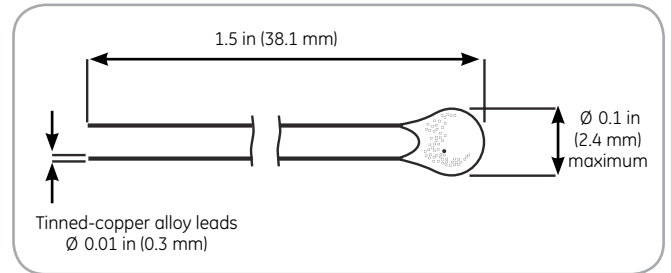
Amphenol
Advanced Sensors

Type C100 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 k Ω
- 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)

Amphenol
Advanced Sensors

www.amphenol-sensors.com

© 2014 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice. Other company names and product names used in this document are the registered trademarks or trademarks of their respective owners.

AAS-920-517A-03/2014

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

[C100H303K](#) [C100H303J](#) [C100H303G](#) [C100F232J](#) [C100F232K](#) [C100F232G](#) [C100Y104J](#) [C100Y104G](#)
[C100Y103J](#) [C100Y104K](#) [C100Y103K](#) [C100Y103G](#) [C100F203G](#) [C100F203K](#) [C100F203J](#) [C100F153J](#) [C100F153G](#)
[C100F153K](#) [C100F103J](#) [C100F103G](#) [C100F103K](#) [C100G104K](#) [C100G104J](#) [C100G104G](#) [C100F202J](#)
[C100F202K](#) [C100F202G](#) [C100F502J](#) [C100F502K](#) [C100F502G](#) [C100G503J](#) [C100G503G](#) [C100G503K](#) [C100F302K](#)
[C100F302G](#) [C100F302J](#)