

NTC Catheter Sensor



- NTC Temperature Sensor
- Rapid time response
- Small tip diameter ($\varnothing 0.55\text{mm Max}$)
- Custom tolerances available
- Various lead lengths available
- Custom designs available

DESCRIPTION

NTC glass coated thermistor welded to 38 AWG Solid Nickel Bifilar with Polyester Type Insulation. Unit potted in polyimide tube using Epoxy Resin and supplied on small spools with calibration data at +37 °C.

FEATURES

Rapid Time Constant
(200 milliseconds in liquids)
Custom tolerances available on request
0.3 mW/°C typ. Dissipation Constant
in air at 25°C
Temperature range -40°C to +105°C

APPLICATIONS

Thermodilution catheters
Thermal Ablation
PCR Genetic Testing
Laboratory animal research
General medical applications

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +37°C	Ohms	14,004
Resistance tolerance @ 37°C	%	± 15
Alpha Value @ 25°C	%/°C	- 3.87
Beta Value 25/85	K	3499
Time response in Liquids	milliseconds	200
Dissipation Constant in still air	mW/°C	0.3
Operating Temperature	°C	-40 to +105

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MECHANICAL DETAILS

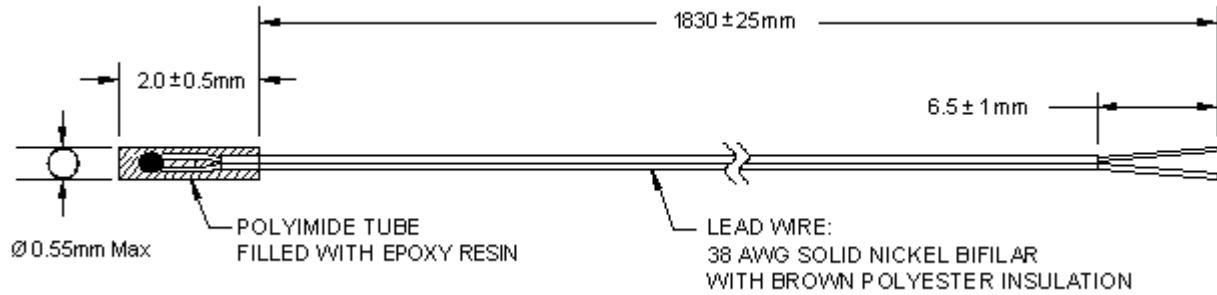


Figure 1: NTC Catheter Sensor

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
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-40.00°C	493,912.1Ω
-39.00°C	465,502.9Ω
-38.00°C	438,917.0Ω
-37.00°C	414,026.0Ω
-36.00°C	390,711.5Ω
-35.00°C	368,863.9Ω
-34.00°C	348,382.0Ω
-33.00°C	329,172.1Ω
-32.00°C	311,147.4Ω
-31.00°C	294,227.6Ω
-30.00°C	278,338.3Ω
-29.00°C	263,410.5Ω
-28.00°C	249,380.2Ω
-27.00°C	236,188.1Ω
-26.00°C	223,779.0Ω
-25.00°C	212,101.9Ω
-24.00°C	201,109.2Ω
-23.00°C	190,756.7Ω
-22.00°C	181,003.3Ω
-21.00°C	171,810.8Ω
-20.00°C	163,143.7Ω
-19.00°C	154,968.8Ω
-18.00°C	147,255.3Ω
-17.00°C	139,974.5Ω
-16.00°C	133,099.5Ω
-15.00°C	126,605.4Ω
-14.00°C	120,468.9Ω
-13.00°C	114,668.2Ω
-12.00°C	109,183.1Ω
-11.00°C	103,994.4Ω
-10.00°C	99,084.5Ω

Temp. °C	Ohms
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-9.00°C	94,436.9Ω
-8.00°C	90,035.9Ω
-7.00°C	85,867.2Ω
-6.00°C	81,917.1Ω
-5.00°C	78,172.9Ω
-4.00°C	74,622.8Ω
-3.00°C	71,255.6Ω
-2.00°C	68,060.8Ω
-1.00°C	65,028.7Ω
0.00°C	62,150.0Ω
1.00°C	59,416.1Ω
2.00°C	56,819.0Ω
3.00°C	54,351.0Ω
4.00°C	52,005.1Ω
5.00°C	49,774.4Ω
6.00°C	47,652.7Ω
7.00°C	45,634.1Ω
8.00°C	43,713.1Ω
9.00°C	41,884.2Ω
10.00°C	40,142.7Ω
11.00°C	38,483.9Ω
12.00°C	36,903.4Ω
13.00°C	35,397.1Ω
14.00°C	33,961.1Ω
15.00°C	32,591.7Ω
16.00°C	31,285.5Ω
17.00°C	30,039.3Ω
18.00°C	28,850.0Ω
19.00°C	27,714.6Ω
20.00°C	26,630.4Ω
21.00°C	25,595.0Ω

Temp. °C	Ohms
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22.00°C	24,605.7Ω
23.00°C	23,660.3Ω
24.00°C	22,756.7Ω
25.00°C	21,892.7Ω
26.00°C	21,066.5Ω
27.00°C	20,276.1Ω
28.00°C	19,519.9Ω
29.00°C	18,796.1Ω
30.00°C	18,103.3Ω
31.00°C	17,439.9Ω
32.00°C	16,804.5Ω
33.00°C	16,195.8Ω
34.00°C	15,612.6Ω
35.00°C	15,053.6Ω
36.00°C	14,517.8Ω
37.00°C	14,004.0Ω
38.00°C	13,511.2Ω
39.00°C	13,038.5Ω
40.00°C	12,585.0Ω
41.00°C	12,149.7Ω
42.00°C	11,731.8Ω
43.00°C	11,330.6Ω
44.00°C	10,945.3Ω
45.00°C	10,575.2Ω
46.00°C	10,219.7Ω
47.00°C	9,878.0Ω
48.00°C	9,549.6Ω
49.00°C	9,233.9Ω
50.00°C	8,930.3Ω
51.00°C	8,638.4Ω
52.00°C	8,357.5Ω

Temp. °C	Ohms
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53.00°C	8,087.3Ω
54.00°C	7,827.2Ω
55.00°C	7,576.9Ω
56.00°C	7,336.0Ω
57.00°C	7,104.0Ω
58.00°C	6,880.5Ω
59.00°C	6,665.2Ω
60.00°C	6,457.9Ω
61.00°C	6,258.0Ω
62.00°C	6,065.4Ω
63.00°C	5,879.7Ω
64.00°C	5,700.7Ω
65.00°C	5,528.1Ω
66.00°C	5,361.6Ω
67.00°C	5,200.9Ω
68.00°C	5,045.9Ω
69.00°C	4,896.4Ω
70.00°C	4,752.0Ω
71.00°C	4,612.6Ω
72.00°C	4,478.1Ω
73.00°C	4,348.1Ω
74.00°C	4,222.6Ω
75.00°C	4,101.3Ω
76.00°C	3,984.2Ω
77.00°C	3,871.0Ω
78.00°C	3,761.5Ω
79.00°C	3,655.7Ω
80.00°C	3,553.5Ω
81.00°C	3,454.6Ω
82.00°C	3,358.9Ω
83.00°C	3,266.4Ω

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84.00°C	3,176.9Ω	90.00°C	2,697.1Ω	96.00°C	2,301.1Ω	102.00°C	1,972.7Ω
85.00°C	3,090.3Ω	91.00°C	2,625.8Ω	97.00°C	2,242.1Ω	103.00°C	1,923.6Ω
86.00°C	3,006.4Ω	92.00°C	2,556.7Ω	98.00°C	2,184.9Ω	104.00°C	1,875.9Ω
87.00°C	2,925.3Ω	93.00°C	2,489.7Ω	99.00°C	2,129.4Ω	105.00°C	1,829.6Ω
88.00°C	2,846.8Ω	94.00°C	2,424.9Ω	100.00°C	2,075.5Ω		
89.00°C	2,770.7Ω	95.00°C	2,362.1Ω	101.00°C	2,023.3Ω		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
G22K7MCD8	Catheter Probe	22,000	1000 *

* For quantities less than Minimum Order Quantity – contact distribution.

联系方式



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