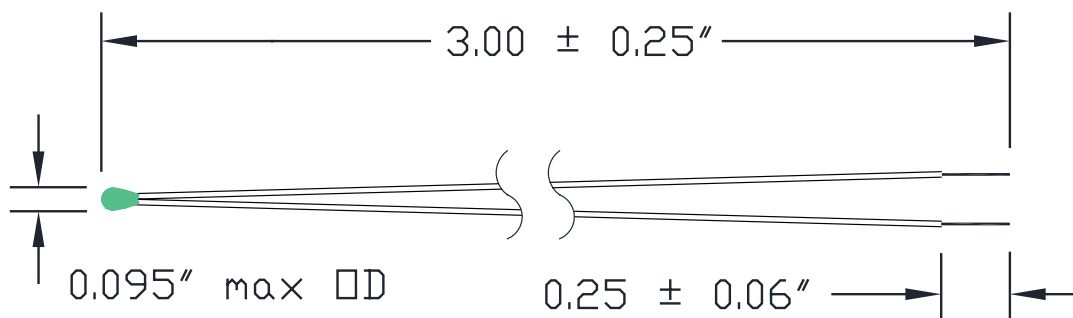




2AE NTC Thermistor

Description:

Epoxy-coated NTC thermistor with Teflon-insulated 30 AWG solid silver-plated copper leads, radial configuration, 3 in (76.2 mm) overall length.



(Drawing dimensions are typical)

Features:

- R25 values from 50Ω to $100,000 \Omega$
- Available in point-matched and interchangeable temperature tolerances
- Available in all R/T Curves

With Teflon-insulated leads, the 2AE thermistor series reduces labors cost when the sensors are potted in housings and the leads must be electrically insulated. The 2AE series facilitates the process of attaching extension leads. The 2AE series is also appropriate for applications where the thermistor is exposed directly to ambient room air. Contact us at info@northstarsensors.com for assistance with your unique application.

Applications:

- Electronic thermometers
- Industrial controls
- Food processing
- Battery technology
- HVAC
- Cold junction compensation



2AE NTC Thermistor

Typical Configurations:

Part Number	Resistance at 25 °C	Temperature Tolerance	R/T Curve	25 °C / 85 °C β
2AE103R44T1A	10 k Ω	± 0.1 °C from 0 °C to 70 °C	44	3978
2AE222R44T1M	2252 Ω	± 0.1 °C from 35 °C to 40 °C	44	3978
2AE351R38P2	350 Ω	$\pm 2\%$ Ω at 25 °C	38	3486
2AE303R43T2A	30 k Ω	± 0.2 °C from 0 °C to 70 °C	43	3943
2AE104R47T5A	100 k Ω	± 0.5 °C from 0 °C to 70 °C	47	4262

A wide variety of configurations are possible. Contact us at info@northstarsensors.com for assistance with your unique application.

Other Specifications:

Recommended Operating Temperature	-50 °C to 100 °C
Max Temperature	125 °C
Recommended Measurement Current	< 50 μ A
Time Constant	~ 1 second in stirred liquid
Dissipation Constant	~ 1 mW / °C in ambient air
RoHS and REACH	Compliant

Resistance vs Temperature Conversion Tables

°C	CURVE 38		CURVE 43		CURVE 44	
	Ω RATIO R_T / R_{25}	NTC (%/°C)	Ω RATIO R_T / R_{25}	NTC (%/°C)	Ω RATIO R_T / R_{25}	NTC (%/°C)
0	2.815	-4.46	3.1660	-4.94	3.2651	-5.11
5	2.260	-4.33	2.4815	-4.80	2.5393	-4.95
10	1.826	-4.20	1.9583	-4.67	1.9901	-4.80
15	1.485	-4.07	1.5556	-4.54	1.5712	-4.66
20	1.215	-3.95	1.2434	-4.42	1.2493	-4.52
25	1.000	-3.84	1.0000	-4.30	1.0000	-4.39
30	0.8276	-3.73	0.80892	-4.18	0.80567	-4.26
35	0.6885	-3.63	0.65804	-4.07	0.65314	-4.14
40	0.5758	-3.53	0.53820	-3.97	0.53266	-4.02
45	0.4840	-3.43	0.44249	-3.87	0.43689	-3.91
50	0.4087	-3.33	0.36563	-3.77	0.36031	-3.81
55	0.3467	-3.24	0.30357	-3.67	0.29857	-3.71
60	0.2954	-3.16	0.25323	-3.58	0.24869	-3.61
65	0.2528	-3.07	0.21219	-3.49	0.20816	-3.51
70	0.2172	-2.99	0.17858	-3.41	0.17508	-3.42

Please visit northstarsensors.com/temperature-curves for additional tables