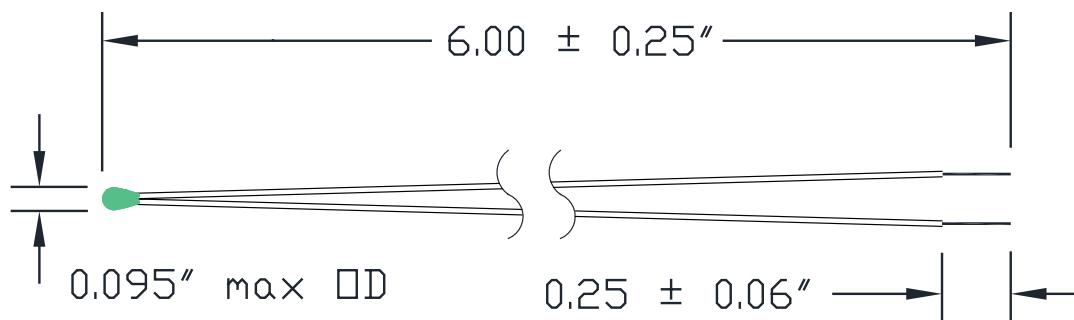
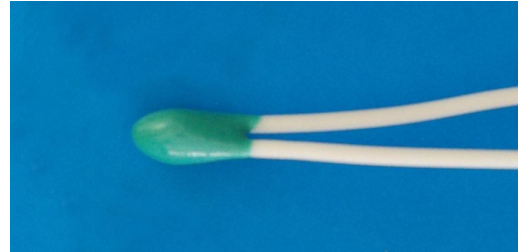




## 2HE NTC Thermistor

### Description:

Epoxy-coated NTC thermistor with Kynar-insulated 30 AWG solid silver-plated copper leads, radial configuration, 6 in (152.4 mm) overall length.



(Drawing dimensions are typical)

### Features:

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

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

### Applications:

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



## 2HE NTC Thermistor

### Typical Configurations:

Part Number	Resistance at 25 °C	Temperature Tolerance	R/T Curve	25 °C / 85 °C $\beta$
2HE103R44T1A	10 k $\Omega$	$\pm 0.1$ °C from 0 °C to 70 °C	44	3978
2HE222R44T1M	2252 $\Omega$	$\pm 0.1$ °C from 35 °C to 40 °C	44	3978
2HE351R38P2	350 $\Omega$	$\pm 2\%$ $\Omega$ at 25 °C	38	3486
2HE303R43T2A	30 k $\Omega$	$\pm 0.2$ °C from 0 °C to 70 °C	43	3943
2HE104R47T5A	100 k $\Omega$	$\pm 0.5$ °C from 0 °C to 70 °C	47	4262

A wide variety of configurations are possible. Contact us at [info@northstarsensors.com](mailto: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 $\mu$ 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	
	$\Omega$ RATIO $R_T / R_{25}$	NTC (%/°C)	$\Omega$ RATIO $R_T / R_{25}$	NTC (%/°C)	$\Omega$ 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](http://northstarsensors.com/temperature-curves) for additional tables