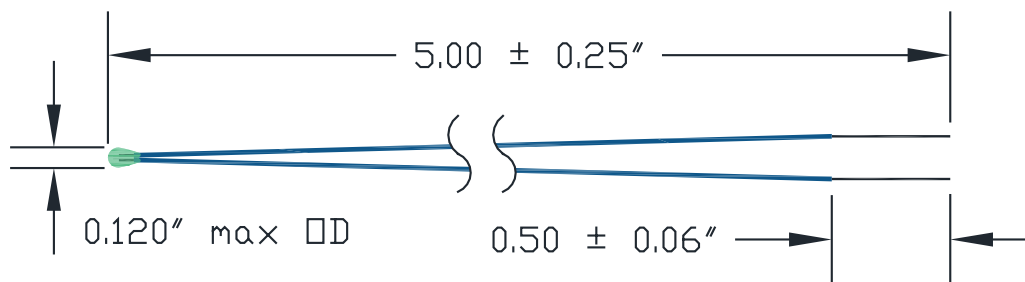
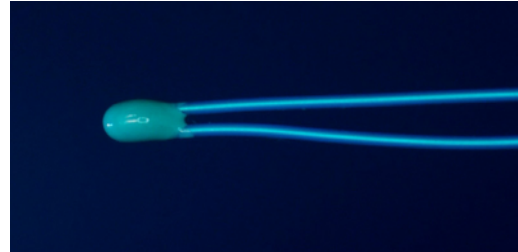




## 2HE1003 NTC Thermistor with Insulated Leads

### Description:

The 2HE1003 NTC thermistor with kynar insulated leads has a nominal resistance of 30 k $\Omega$  at 25 °C and is accurate to  $\pm 0.3$  °C from 0 °C to 70 °C. The resistance vs temperature curve is curve 43.



(Drawing dimensions are typical)

### Features:

- Affordable compared to similar parts
- Precise over a wide temperature band
- Excellent long term stability

The 2HE1003 NTC thermistor with blue kynar insulated leads is an excellent choice for balancing performance and affordability. It is similar to the standard part 2HE303R43T2A, except that it is 5" rather than 6", has an epoxy bead max diameter of 0.120" rather than 0.095", and is accurate to  $\pm 0.3$  °C from 0 °C to 70 °C rather than  $\pm 0.2$  °C. Contact us at [info@northstarsensors.com](mailto:info@northstarsensors.com) for assistance with your unique application.

### Applications:

- General temperature measurement
- Temperature monitoring
- Temperature compensation
- Peltier temperature tracking



## 2HE1003 NTC Thermistor with Insulated Leads

### Typical Configurations:

Part Number	Resistance at 25 °C	Overall Length	Temperature Tolerance	R/T Curve	25 °C / 85 °C $\beta$	Expoxy Bead Max OD
2HE1003	30 K $\Omega$	5.00 $\pm$ 0.25"	$\pm$ 0.3 °C from 0 °C to 70 °C	43	3943	0.120"
2HE303R43T2A	30 K $\Omega$	6.00 $\pm$ 0.25"	$\pm$ 0.2 °C from 0 °C to 70 °C	43	3943	0.095"

A wide variety of configurations are possible. Contact us at [info@northstarsensors.com](mailto:info@northstarsensors.com) for assistance with your unique application.

### Resistance vs Temperature Conversion Table

#### Other Specifications:

Normal Operating Temperature	0 °C to 100 °C
Max Temperature	125 °C
Recommended Measurement Current	< 50 $\mu$ A
RoHS and REACH	Compliant

°C	CURVE 43	
	$\Omega$ RATIO $R_T / R_{25}$	NTC (%/°C)
-10	5.2658	-5.24
-5	4.0680	-5.09
0	3.1660	-4.94
5	2.4815	-4.80
10	1.9583	-4.67
15	1.5556	-4.54
20	1.2434	-4.42
25	1.0000	-4.30
30	0.80892	-4.18
35	0.65804	-4.07
40	0.53820	-3.97
45	0.44249	-3.87
50	0.36563	-3.77
55	0.30357	-3.67
60	0.25323	-3.58
65	0.21219	-3.49
70	0.17858	-3.41
75	0.15093	-3.32
80	0.12808	-3.24
85	0.10912	-3.17

Please visit [northstarsensors.com/temperature-curves](http://northstarsensors.com/temperature-curves) for additional tables