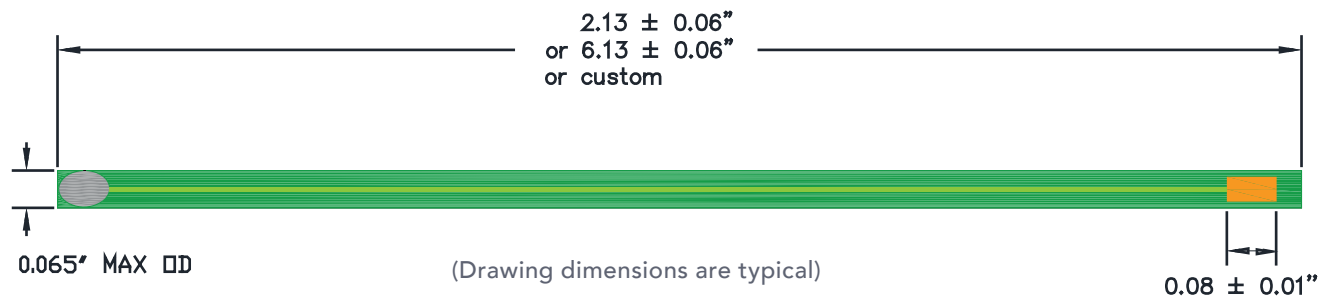
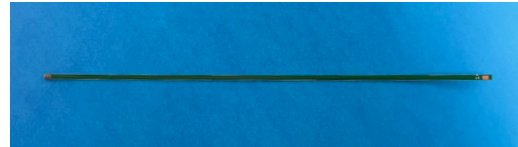




6XE Rigid Probe Thermistor

Description:

A thermistor designed to easily be inserted into a probe housing and soldered to a cable. Engineered from the ground up for mass production and maximum efficiency, it is often half the cost of other thermistor configurations.



Features:

- Engineered for fast assembly into probes
- Designed for mass production at competitive prices
- Small profile for use in fast time response probes
- Epoxy coated sensor at one end, two solder pads separated by insulator on other end

The 6XE thermistor line was designed at North Star Sensors for internal use to quickly assemble probes for monitoring our equipment. The more we used them, the more we liked how easily and reliably we could build various probes. The consistent, simple, two dimensional nature of the carrier FR4 circuit board makes mass producing these thermistors easier than traditional leaded thermistors which makes the Rigid Probe Thermistors sometimes half the cost. Contact us at info@northstarsensors.com for assistance with your unique application.

Applications:

- Fast time response probes
- Low cost, high volume probes
- Equipment monitoring
- Environmental monitoring



6XE Rigid Probe Thermistor

Typical Configurations:

Part Number	Resistance at 25 °C	Overall Length	Temperature Tolerance	R/T Curve	25 °C / 85 °C β
6BE103R3HG2A	10 k Ω	2.13"	± 0.2 °C from 20 °C to 37 °C ± 0.3 °C from 15 °C to 50 °C ± 0.5 °C from 0 °C to 70 °C	3H	3434
6DE103R3HG2A	10 k Ω	6.13"	± 0.2 °C from 20 °C to 37 °C ± 0.3 °C from 15 °C to 50 °C ± 0.5 °C from 0 °C to 70 °C	3H	3434

A wide variety of configurations are possible. Contact us at 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	< 25 μ A
Time Constant	< 1 second in stirred liquid
Dissipation Constant	~ 1.0 mW / °C in ambient air
RoHS and REACH	Compliant

°C	CURVE 3H	
	Ω RATIO R_T / R_{25}	NTC (%/°C)
-10	4.289	-4.60
-5	3.419	-4.46
0	2.744	-4.33
5	2.217	-4.21
10	1.801	-4.09
15	1.472	-3.98
20	1.210	-3.86
25	1.000	-3.76
30	0.8309	-3.65
35	0.6939	-3.55
40	0.5824	-3.45
45	0.4911	-3.36
50	0.4160	-3.28
55	0.3539	-3.19
60	0.3024	-3.10
65	0.2593	-3.03
70	0.2233	-2.96
75	0.1929	-2.89
80	0.1673	-2.81
85	0.1455	-2.76

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