



THERMISTOR SPECIFICATIONS

Oct, 2011

These tiny thermistors are designed to be used in Life Science applications that require fast response and small size. It's small size, interchangeable, high accuracy and fast response become a better sensor over T/C and a good alternative to the RTD sensor for TE application.

1) SCOPE:

This specification defines ratings, dimension, insulation, and mechanical characteristics for the 2.252 K Ω type thermistor.

2) PART NUMBER: LSMN-TR2252

3) RATING:

3-1) Rated zero-power resistance R₂₅ : 2.252 K Ω NOMINAL

3-2) B value. B_{25/85} : 3,977 K \pm 1 %

*The B value is calculated using the zero-power resistance values measured at 25 °C and 85°C.

3-3) Temperature coefficient @25°C : -4.4%/°C

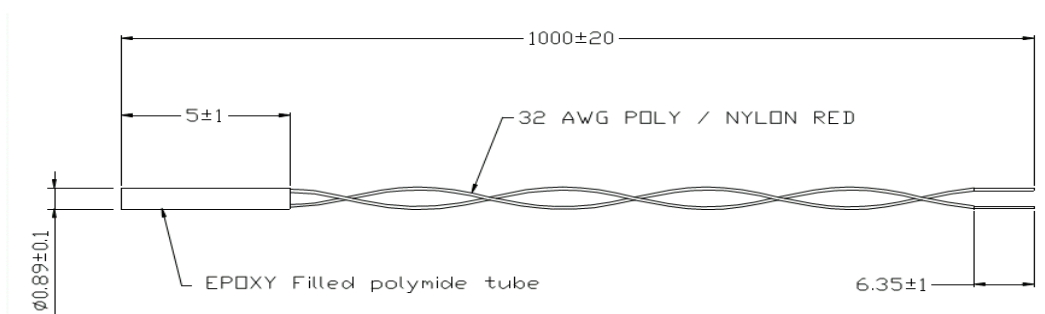
3-4) Dissipation factor. : Approx. 0.5 mW/°C (in air)

3-5) Thermal time constant. : Approx. 0.4 s (in air)

3-6) Tolerance range : 0°C to 70°C (\pm 0.1 °C)

3-7) Maximum operating temperature : 150 °C

4) DIMENSION UNIT: (mm)



5) INSULATION: (between epoxy resin and soldered terminals)

5-1 Dielectric withstanding voltage : AC 100V for one second.

5-2 Insulation resistance : Above 100 M Ω at DC 500V.