

Lead Diameter: 0.15mm
 Lead Length: 60 ± 3mm

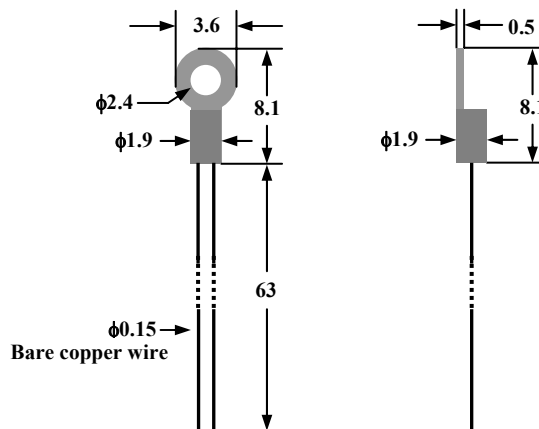


Figure 1 The Front and Side Views of ATH10KL2

MAIN FEATURES

- Glass Encapsulated for Long Term Stability & Reliability
- High Stability: $<0.1^{\circ}\text{C}/\text{Y}$
- High Resistance Accuracy: 1%
- Wide Temp. Range: -55°C to 250°C
- Packaged in Extra Small Ring Lug

APPLICATIONS

Temperature sensing for laser diodes, optical components, etc.

DESCRIPTION

The ATH10KL2 is a thermistor assembly with a glass encapsulated thermistor packaged in an extra compact ring lug. Comparing with conventional assemblies containing epoxy encapsulated thermistors, ATH10KL2 presents higher long term stability, higher reliability and wider temperature range. In addition, it has a small size and short response time.

The ATH10KL2 can be used to measure the temperatures of laser diodes, optical components, etc., with high accuracy and long term stability.

SPECIFICATIONS

- Nominal Resistance @ 25°C : $10\text{K} \pm 1\%$
- B Value @ $25^{\circ}\text{C}/85^{\circ}\text{C}$: $3480\text{K} \pm 1\%$
- B Value @ $0^{\circ}\text{C}/100^{\circ}\text{C}$: $3450\text{K} \pm 1\%$
- B Value @ $25^{\circ}\text{C}/100^{\circ}\text{C}$: $3497\text{K} \pm 1\%$
- Ring Lug Length: $8.1\text{mm} \pm 0.1\text{mm}$
- Ring Lug Width: $3.6 \pm 0.1\text{mm}$
- Ring Hole Diameter: $2.4 \pm 0.1\text{mm}$

APPLICATION

Use #2 imperial or M2.5 metric screw to mount the thermistor assembly onto a smooth metal surface of the object for which the temperature needs to be measured.

The thermistor lead wires are made of plain copper, make sure that they do not touch each other, nor any other electrically conductive objects.

For high precision applications, use a cover which is made of thermal isolation material to cover the thermistor area, see Figure 2. In this way, the air flow will not affect the temperature sensing accuracy.

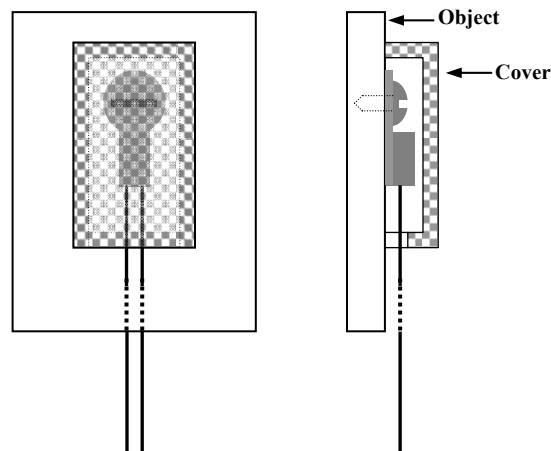


Figure 2 Using an Insulation Cover to Improve Accuracy

ORDERING INFORMATION

Part number: ATH10KL2

Quantity	1 - 9	10 - 49	50 - 249	≥ 250
Price	\$9.6	\$8.2	\$6.4	\$4.8



Resistance Temperature Characteristics

Table with 5 columns: T [°C], R_nom [Ω], R_min [Ω], R_max [Ω], ΔR/R_N [±%]. Rows range from -55 to 120 degrees Celsius.

Table with 5 columns: T [°C], R_nom [Ω], R_min [Ω], R_max [Ω], ΔR/R_N [±%]. Rows range from 125 to 250 degrees Celsius.

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