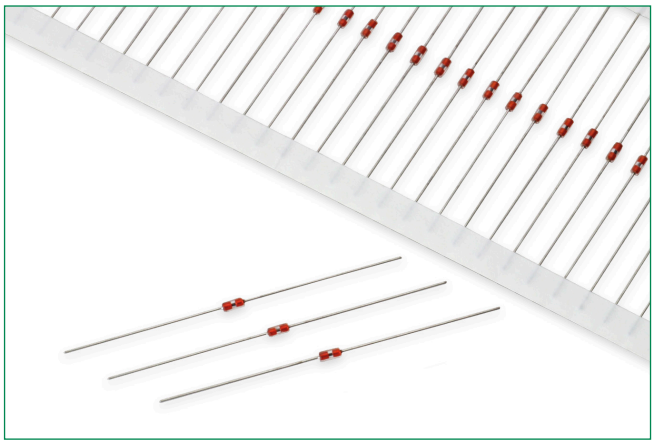
# JL Series DO-35 Interchangeable Glass Encapsulated Thermistors



## Description

Littelfuse low cost interchangeable glass encapsulated thermistors are manufactured using super stable, precision NTC chips which are hermetically sealed in a glass (DO-35 diode style) package. The result is a device which exhibits excellent long term reliability and stability even when subjected to severe environmental or thermal conditions. They are well suited for uses where their interchangeability eliminates the necessity for costly individual circuit calibration. Their uniform dimensions and axial lead configuration make them especially suitable for use with automatic insertion equipment.

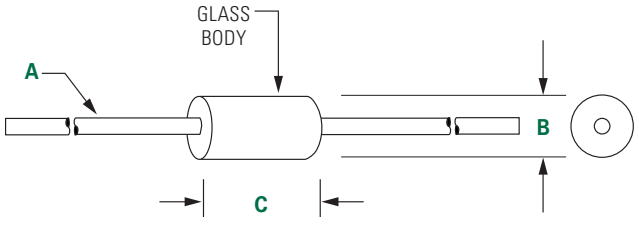
## Options

- Special Lead Forms
- Non-standard resistance values and tolerances
- Point matched at specified temperatures
- Tape and Reel Packaging

## Features

- High temperature capability to +300°C
- Hermetically sealed glass package
- Low cost
- Excellent long-term stability
- High Voltage Insulation
- Tinned CSS Lead Wires are Solderable or Weldable

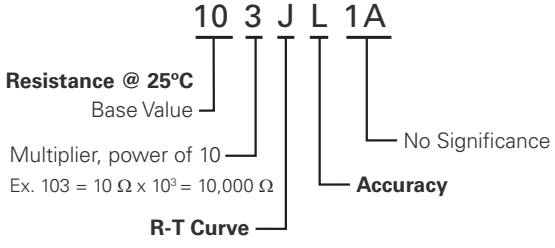
## Dimensions




Dimensions shown in inches.

| A | B | C |
|---|---|---|
| 0.020″±0.002″<br>24 AWG Tinned CCS<br>1.0″ Long Min | 0.075″<br>Max | 0.160″<br>Max |

## Part Numbering System




**Note:** Not all combinations of Part Number codes are available. Contact Littelfuse for details.

## Specifications

| Part Number | Resistance Ohms @25°C | Accuracy (0°C to +100°C) | R-T Curve | Temperature Coefficient (%/°C) @ 25°C | Beta (K) 0-50°C | Dissipation Constant, Nominal (mW/°C) | Thermal Time Constant, Max. - Still Air (seconds) | Thermal Time Constant, Max. - Well Stirred Oil (seconds) | Temperature Rating (°C) |
|---|---|---|---|---|---|---|---|---|---|
| 103JL1A | 10000 | ± 0.5 °C | J | -4.4 | 3892 | 2 | 5 | 0.5 | -55 to +300 |
| 203JL1A | 20000 | ± 0.5 °C | J | -4.4 | 3892 | 2 | 5 | 0.5 | -55 to +300 |
| 253JL1A | 25000 | ± 0.5 °C | J | -4.4 | 3892 | 2 | 5 | 0.5 | -55 to +300 |
| 503JL1A | 50000 | ± 0.5 °C | J | -4.4 | 3892 | 2 | 5 | 0.5 | -55 to +300 |
| 104JL1A | 100000 | ± 0.5 °C | J | -4.4 | 3892 | 2 | 5 | 0.5 | -55 to +300 |

## Packaging

| Packaging Option | Packaging Code | Standard Quantity | Standard |
|---|---|---|---|
| Tape and Reel | -TR | 5000 | EIA-296 |