

# GR Series Glass Coated Chip Thermistor



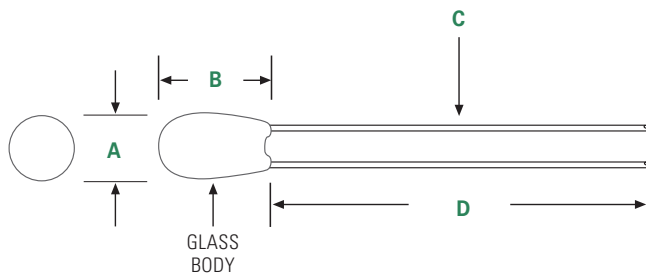
## Description

Littelfuse radial leaded glass coated chip thermistors feature excellent long-term stability and reliability as well as a fast thermal response time. They are especially suitable for temperature measurement and control where extreme temperatures, corrosive atmospheres and/or harsh environments are encountered. Their low cost and excellent reliability make them useful for applications ranging from HVAC/R to Industrial Controls to Consumer Appliances.

## Options

- Non-standard resistance values and tolerances

## Dimensions



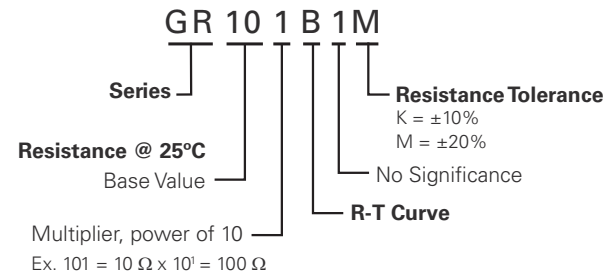
Dimensions shown in inches.

| A             | B             | C                                 | D            |
|---------------|---------------|-----------------------------------|--------------|
| 0.090"<br>Max | 0.160"<br>Max | 0.0098"<br>Nom Diam<br>Lead Wires | 1.00"<br>Min |

## Features

- High temperature capability to +300°C
- High stability
- Solderable lead wires

## Part Numbering System



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

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### Specifications

| Part Number | Resistance Ohms @25°C | *Resistance Tol. ± % @ 25°C | Temperature Coefficient (% / °C) @ 25°C | R-T Curve | Beta (K) 25-85 °C | Dissipation Constant, Nominal (mW/°C) | Thermal Time Constant, Max. - Still Air (seconds) | Temperature Range (°C) |
|-------------|-----------------------|-----------------------------|---|-----------|-------------------|---------------------------------------|---|------------------------|
| GR101B1M    | 100                   | 20                          | -3.18                                   | B7        | 2826              | —                                     | 14  | -55 to +300            |
| GR102F1K    | 1000                  | 10                          | -3.86                                   | F         | 3499              | 1.3                                   | 14  | -55 to +300            |
| GR302J1K    | 3000                  | 10                          | -4.4                                    | J         | 3977              | 1.3                                   | 14  | -55 to +300            |
| GR103E1K    | 10000                 | 10                          | -3.82                                   | E1        | 3435              | 1.3                                   | 14  | -55 to +300            |
| GR103J1K    | 10000                 | 10                          | -4.4                                    | J         | 3977              | 1.3                                   | 14  | -55 to +300            |
| GR104R1K    | 100000                | 10                          | -4.68                                   | R         | 4263              | 1.3                                   | 14  | -55 to +300            |

\*Resistance tolerances of ± 1%, 2%, and 5% are available upon request

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