

## Features

- Low cost solid state sensor
- Resistance tolerances down to  $\pm 2\%$
- High sensitivity to changes in temperature
- Suitable for temperature measurement, control and compensation
- Excellent mechanical strength
- Wide operating temperature range:  $-58^{\circ}\text{F}$  to  $302^{\circ}\text{F}$  ( $-50^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ )
- Suitable for PCB and probe mountings
- Available in a wide range of material systems
- Also available with epoxy coating
- Available on tape and reel to EIA RS-468A for automatic insertion

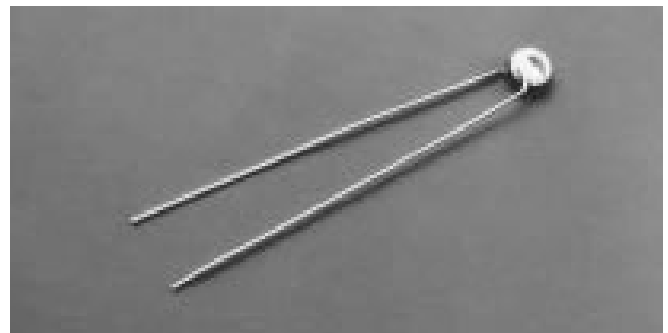
## Description

Point-matched disc thermistor with bare lead-wires.

# NTC Thermistors Type RL20

## Uncoated Disc With Radial Leads

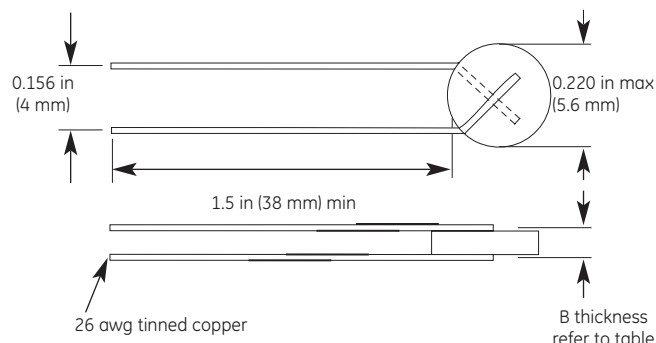
General Purpose Sensors is a Thermometrics product. Thermometrics has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



# Type RL20 Specifications

| Type Number       | Ro@25°C<br>Ω | Material<br>Systems | Beta<br>25/85 | B    |      | δ<br>(mW/K) | τ<br>(sec.) |
|-------------------|--------------|---------------------|---------------|------|------|-------------|-------------|
|                   |              |                     |               | in   | mm   |             |             |
| RL2004-16.4-59-M  | 25           | D5.9                | 3096          | .130 | 3.30 | 6.5         | 20          |
| RL2007-32.8-59-M  | 50           | D5.9                | 3096          | .160 | 4.06 | 6.5         | 30          |
| RL2003-62.4-73-K  | 100          | D7.3                | 3468          | .120 | 3.05 | 6.5         | 20          |
| RL2004-93.6-73-K  | 150          | D7.3                | 3468          | .130 | 3.30 | 6.5         | 20          |
| RL2004-89.1-85-K  | 150          | D8.5                | 3772          | .130 | 3.30 | 6.5         | 20          |
| RL2006-125-73-K   | 200          | D7.3                | 3468          | .150 | 3.81 | 6.5         | 20          |
| RL2006-119-85-K   | 200          | D8.5                | 3772          | .150 | 3.81 | 6.5         | 20          |
| RL2007-156-73-K   | 250          | D7.3                | 3468          | .160 | 4.06 | 6.5         | 30          |
| RL2008-187-73-K   | 300          | D7.3                | 3468          | .170 | 4.32 | 6.5         | 30          |
| RL2008-178-85-K   | 300          | D8.5                | 3772          | .170 | 4.32 | 6.5         | 30          |
| RL2003-289-95-K   | 500          | D9.5                | 3965          | .120 | 3.05 | 6.5         | 20          |
| RL2005-434-95-K   | 750          | D9.5                | 3965          | .140 | 3.56 | 6.5         | 20          |
| RL2006-578-95-K   | 1K           | D9.5                | 3965          | .150 | 3.81 | 6.5         | 20          |
| RL2004-582-97-K   | 1K           | D9.7A               | 3972          | .130 | 3.30 | 6.5         | 20          |
| RL2006-873-97-K   | 1.5K         | D9.7A               | 3972          | .150 | 3.81 | 6.5         | 20          |
| RL2007-1164-97-K  | 2K           | D9.7A               | 3972          | .160 | 4.06 | 6.5         | 30          |
| RL2005-1148-103-K | 2K           | D10.3               | 4073          | .140 | 3.56 | 6.5         | 20          |
| RL2006-1600-103-K | 2786         | D10.3               | 4073          | .150 | 3.81 | 6.5         | 20          |
| RL2008-2010-103-K | 3.5K         | D10.3               | 4073          | .170 | 4.32 | 6.5         | 30          |
| RL2005-2203-120-K | 4K           | D12.0               | 4356          | .140 | 3.56 | 6.5         | 20          |
| RL2006-2753-120-K | 5K           | D12.0               | 4356          | .150 | 3.81 | 6.5         | 20          |

| Type Number        | Ro@25°C<br>Ω | Material<br>Systems | Beta<br>25/85 | B    |      | δ<br>(mW/K) | τ<br>(sec.) |
|--------------------|--------------|---------------------|---------------|------|------|-------------|-------------|
|                    |              |                     |               | in   | mm   |             |             |
| RL2008-4131-120-K  | 7.5K         | D12.0               | 4356          | .170 | 4.32 | 6.5         | 30          |
| RL2004-4429-122-K  | 8K           | D12.2               | 4365          | .130 | 3.30 | 6.5         | 20          |
| RL2012-5506-120-K  | 10K          | D12.0               | 4356          | .210 | 5.33 | 7.2         | 50          |
| RL2005-5536-122-K  | 10K          | D12.2               | 4365          | .140 | 3.56 | 6.5         | 20          |
| RL2007-8304-122-K  | 15K          | D12.2               | 4365          | .160 | 4.06 | 6.5         | 30          |
| RL2010-11K-122-K   | 20K          | D12.2               | 4365          | .190 | 4.83 | 7.0         | 35          |
| RL2005-10.7K-140-K | 20K          | D14.0               | 4615          | .140 | 3.56 | 6.5         | 20          |
| RL2003-13.2K-150-K | 25K          | D15.0               | 4728          | .120 | 3.05 | 6.5         | 20          |
| RL2006-13.3K-140-K | 25K          | D14.0               | 4615          | .150 | 3.81 | 6.5         | 20          |
| RL2007-16K-140-K   | 30K          | D14.0               | 4615          | .160 | 4.06 | 6.5         | 30          |
| RL2004-18.4-150-K  | 35K          | D15.0               | 4720          | .130 | 3.30 | 6.5         | 20          |
| RL2004-21.6K-138-K | 40K          | D13.8               | 4561          | .130 | 3.30 | 6.5         | 20          |
| RL2005-27K-138-K   | 50K          | D13.8               | 4561          | .140 | 3.56 | 6.5         | 20          |
| RL2006-26.3K-150-K | 50K          | D15.0               | 4720          | .150 | 3.81 | 6.5         | 20          |
| RL2004-26K-155-K   | 50K          | D15.5               | 4783          | .130 | 3.30 | 6.5         | 20          |
| RL2008-39.6K-150-K | 70K          | D15.0               | 4220          | .170 | 4.32 | 6.5         | 30          |
| RL2007-40.6K-138-K | 75K          | D13.8               | 4561          | .160 | 4.06 | 6.5         | 30          |
| RL2007-44.5K-155-K | 85K          | D15.5               | 4783          | .160 | 4.06 | 6.5         | 30          |
| RL2010-54.1K-138-K | 100K         | D13.8               | 4561          | .190 | 4.83 | 7.0         | 35          |
| RL2008-52.3K-155-K | 100K         | D15.5               | 4783          | .170 | 4.32 | 6.5         | 30          |



## Options

- Other resistances and tolerances at other temperatures available.
- Resistances tolerance codes: G = 2%
  - J = 5%
  - K = 10%
  - L = 15%
  - M = 20%
- Alternative lead lengths, lead materials, insulations
- The - "K" suffix is the same as the "DI" suffix in earlier catalogs.



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920-413A

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