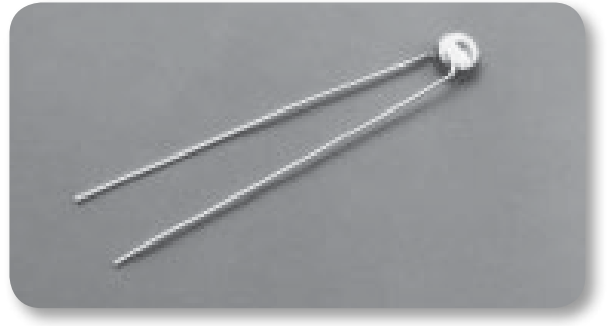


T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# NTC Thermistors Type RL20

Uncoated Disc With  
Radial Leads



## Description

Point-matched disc thermistor with bare lead-wires.

## Features

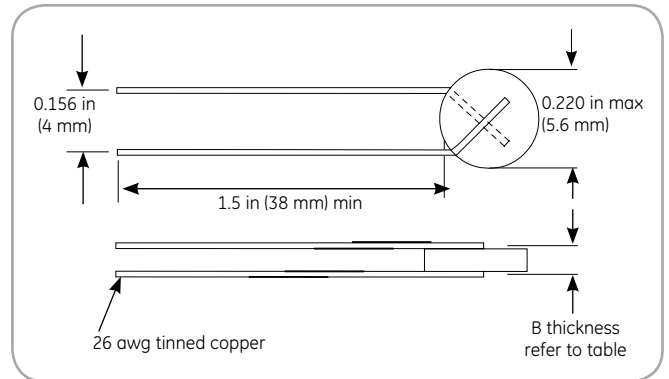
- Low cost solid state sensor
- Resistance tolerances down to  $\pm 2\%$
- High sensitivity to changes in temperature
- Suitable for temperature measurement, control and compensation
- Excellent mechanical strength
- Wide operating temperature range:  $-58^{\circ}\text{F}$  to  $302^{\circ}\text{F}$  ( $-50^{\circ}\text{C}$  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

**Amphenol**  
**Advanced Sensors**

# Type RL20 Specifications

| Type Number       | Ro@25°C<br>Ω | Material<br>Systems | Beta<br>25/85 | B<br>in mm | δ<br>(mW/K) | τ<br>(sec.) |
|-------------------|--------------|---------------------|---------------|------------|-------------|-------------|
| 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<br>in mm | δ<br>(mW/K) | τ<br>(sec.) |
|--------------------|--------------|---------------------|---------------|------------|-------------|-------------|
| 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.

**Amphenol**  
Advanced Sensors

[www.amphenol-sensors.com](http://www.amphenol-sensors.com)

© 2014 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice.  
Other company names and product names used in this document are the registered trademarks or trademarks of their respective owners.

AAS-920-413A-04/2014