



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 Thermistor Type RL10

Uncoated Disc With Radial Leads



Description

Point-matched disc thermistor with bare lead-wires.

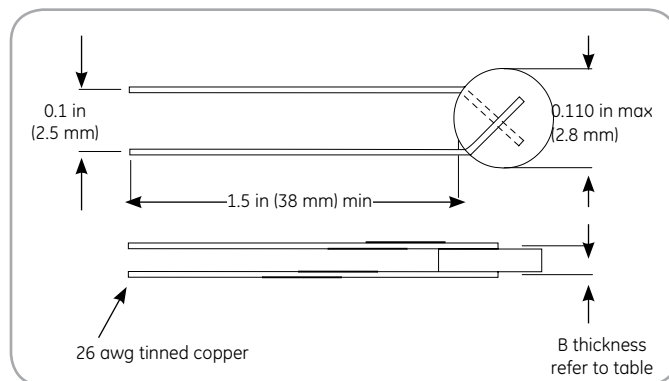
Features

- 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°F to 302°F (-50°C to 150°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 EIA RS-468A for automatic insertion

Amphenol
Advanced Sensors

Type RL10 Specifications

| Type Number | Ro@25°C Ω | Material Systems | Beta 25/85 | B in | B mm | δ (mW/K) | τ (sec.) |
|---------------------|--------------|---------------------|---------------|---------|---------|-------------|-------------|
| RL1003-49.2-59-M | 75 | D5.9 | 3096 | .110 | 2.79 | 9 | 2.5 |
| RL1004-65.6-59-M | 100 | D5.9 | 3096 | .120 | 3.05 | 2.5 | 9 |
| RL1005-82-59-M | 125 | D5.9 | 3096 | .130 | 3.30 | 2.5 | 10 |
| RL1006-98.4-59-M | 150 | D5.9 | 3096 | .140 | 3.56 | 2.7 | 10 |
| RL1003-238-85-K | 400 | D8.5 | 3772 | .110 | 2.79 | 2.5 | 9 |
| RL1003-312-73-K | 500 | D7.3 | 3468 | .110 | 2.79 | 2.5 | 9 |
| RL1004-297-85-K | 500 | D8.5 | 3772 | .120 | 3.05 | 2.5 | 9 |
| RL1005-468-73-K | 750 | D7.3 | 3468 | .130 | 3.30 | 2.5 | 10 |
| RL1006-475-85-K | 800 | D8.5 | 3772 | .140 | 3.56 | 2.7 | 10 |
| RL1007-624-73-K | 1000 | D7.3 | 3468 | .150 | 3.81 | 2.8 | 10 |
| RL1007-594-85-K | 1000 | D8.5 | 3772 | .150 | 3.81 | 2.8 | 10 |
| RL1003-1157-95-K | 2K | D9.5 | 3965 | .110 | 2.79 | 2.5 | 9 |
| RL1004-1446-95-K | 2.5K | D9.5 | 3965 | .120 | 3.05 | 2.5 | 9 |
| RL1005-1735-95-K | 3K | D9.5 | 3965 | .130 | 3.30 | 2.5 | 10 |
| RL1003-1746-97-K | 3K | D9.5 | 3965 | .110 | 2.79 | 2.5 | 9 |
| RL1007-2313-95-K | 4K | D9.5 | 3965 | .150 | 3.81 | 2.8 | 10 |
| RL1004-2910-97-K | 5K | D9.7A | 3972 | .120 | 3.05 | 2.5 | 9 |
| RL1003-2871-103-K | 5K | D10.3 | 4073 | .110 | 2.79 | 2.5 | 9 |
| RL1004-4019-103-K | 7K | D10.3 | 4073 | .120 | 3.05 | 2.5 | 9 |
| RL1007-4364-97-K | 7.5K | D9.7A | 3972 | .150 | 3.81 | 2.8 | 10 |
| RL1009-5820-97-K | 10K | D9.7A | 3972 | .170 | 4.32 | 3.0 | 10 |
| RL1005-5744-103-K | 10K | D10.3 | 4073 | .130 | 3.30 | 2.5 | 10 |
| RL1007-6890-103-K | 12K | D10.3 | 4073 | .150 | 3.81 | 2.8 | 10 |
| RL1004-8262-120-K | 15K | D12.0 | 4356 | .120 | 3.05 | 2.5 | 9 |
| RL1006-11K-120-K | 20K | D12.0 | 4356 | .140 | 3.56 | 2.7 | 10 |
| RL1007-13.8K-120-K | 25K | D12.0 | 4356 | .150 | 3.81 | 2.8 | 10 |
| RL1003-13.8K-122-K | 25K | D12.2 | 4365 | .110 | 2.79 | 2.5 | 9 |
| RL1005-22.1K-122-K | 40K | D12.2 | 4365 | .130 | 3.30 | 2.5 | 10 |
| RL1006-26.6K-122-K | 50K | D12.2 | 4365 | .140 | 3.56 | 2.7 | 10 |
| RL1003-26.7K-140-K | 50K | D14.0 | 4615 | .110 | 2.79 | 2.5 | 9 |
| RL1007-33.2K-122-K | 60K | D12.2 | 4365 | .150 | 3.81 | 2.8 | 10 |
| RL1004-34.7K-140-K | 65K | D14.0 | 4615 | .120 | 3.05 | 2.5 | 9 |
| RL1005-42.7K-140-K | 80K | D14.0 | 4615 | .130 | 3.30 | 2.5 | 10 |
| RL1006-53.4K-140-K | 100K | D14.0 | 4615 | .140 | 3.56 | 2.7 | 10 |
| RL1003-52.7K-150-K | 100K | D15.0 | 4228 | .110 | 2.79 | 2.5 | 9 |
| RL1004-81.1K-138-K | 150K | D13.8 | 4561 | .120 | 3.05 | 2.5 | 9 |
| RL1003-78.4K-155-K | 150K | D15.5 | 4793 | .110 | 2.79 | 2.5 | 9 |
| RL1005-79K-150-K | 150K | D15.0 | 4228 | .130 | 3.30 | 2.5 | 10 |
| RL1005-108.2K-138-K | 200K | D13.8 | 4561 | .130 | 3.30 | 2.5 | 10 |
| RL1006-105.3K-150-K | 200K | D15.0 | 4228 | .140 | 3.56 | 2.7 | 10 |
| RL1004-104.7K-155-K | 200K | D15.5 | 4793 | .120 | 3.05 | 2.5 | 9 |
| RL1005-130.9K-155-K | 250K | D15.5 | 4793 | .130 | 3.30 | 2.5 | 10 |
| RL1006-135.2K-138-K | 250K | D13.8 | 4561 | .140 | 3.56 | 2.7 | 10 |
| RL1007-162.3K-138-K | 300K | D13.8 | 4561 | .150 | 3.81 | 2.8 | 10 |
| RL1006-157K-155-K | 300K | D15.5 | 4793 | .140 | 3.56 | 2.7 | 10 |
| RL1007-183K-155-K | 350K | D15.5 | 4793 | .150 | 3.81 | 2.8 | 10 |



Options

- Other resistances and tolerances at other temperatures are available.
- Resistance 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.