

# GE SENSING/THERMOMETRICS Products



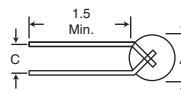
GE  
Measurement & Control Solutions

Products may be RoHS compliant. Check mouser.com for RoHS status.

## NTC THERMISTORS

NTC (Negative Temperature Coefficient) thermistors decrease in resistance as temperature increases. The maximum operating temperature is 150°C. Zero-power resistance values at 25°C range from 10Ω to 250KΩ; other values available upon request.

\*Resistance tolerance is ±10%, except where denoted by an asterisk which is ±20%



DIMENSIONS: in.

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | GE Part No.         | Ohms (Ω) | A (in.) | B (in.) | C (in.) | D (AWG) | Price Each |      |
|------------------|---------------------|----------|---------|---------|---------|---------|------------|------|
|                  |                     |          |         |         |         |         | 1          | 10   |
| * 527-1004-100   | RL1004-65.6-59-D1   | 100      | .110    | .120    | .100    | 26      | 1.40       | 1.33 |
| 527-1003-500     | RL1003-312-73-D1    | 500      | .110    | .110    | .100    | 26      | 1.37       | 1.31 |
| 527-1007-1K      | RL1007-624-73-D1    | 1K       | .110    | .150    | .100    | 26      | 1.37       | 1.31 |
| 527-1003-3K      | RL1003-1746-97-D1   | 3K       | .110    | .110    | .100    | 26      | 1.37       | 1.31 |
| 527-1004-5K      | RL1004-2910-97-D1   | 5K       | .110    | .120    | .100    | 26      | 1.37       | 1.31 |
| 527-1009-10K     | RL1009-5820-97-D1   | 10K      | .110    | .170    | .100    | 26      | 1.37       | 1.31 |
| 527-1005-10K     | RL1005-5744-103-D1  | 10K      | .110    | .130    | .100    | 26      | 1.37       | 1.31 |
| 527-1007-25K     | RL1007-13.8K-120-D1 | 25K      | .110    | .150    | .100    | 26      | 1.02       | .96  |
| 527-1003-50K     | RL1003-26.7K-140-D1 | 50K      | .110    | .110    | .100    | 26      | 1.48       | 1.41 |
| 527-1006-100K    | RL1006-53.4K-140-D1 | 100K     | .110    | .140    | .100    | 26      | 1.48       | 1.41 |
| 527-1004-200K    | RL1004-104.7K155-D1 | 200K     | .110    | .120    | .100    | 26      | 1.48       | 1.41 |

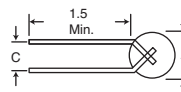
For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | GE Part No.         | Ohms (Ω) | A (in.) | B (in.) | C (in.) | D (AWG) | Price Each |      |
|------------------|---------------------|----------|---------|---------|---------|---------|------------|------|
|                  |                     |          |         |         |         |         | 1          | 10   |
| * 527-2004-25    | RL2004-16.4-59-D1   | 25       | .220    | .130    | .156    | 24      | .99        | .897 |
| * 527-2007-50    | RL2007-32.8-59-D1   | 50       | .220    | .160    | .156    | 24      | .99        | .897 |
| 527-2003-100     | RL2003-62.4-73-D1   | 100      | .220    | .120    | .156    | 24      | .94        | .866 |
| 527-2006-200     | RL2006-125-73-D1    | 200      | .220    | .150    | .156    | 24      | .94        | .866 |
| 527-2004-1K      | RL2004-582-97-D1    | 1K       | .220    | .130    | .156    | 24      | .94        | .867 |
| 527-2007-2K      | RL2007-1164-97-D1   | 2K       | .220    | .160    | .156    | 24      | 1.05       | .99  |
| 527-2006-5K      | RL2006-2753-120-D1  | 5K       | .220    | .150    | .156    | 24      | 2.41       | 2.30 |
| 527-2006-25K     | RL2006-13.3K-140-D1 | 25K      | .220    | .150    | .156    | 24      | 1.08       | .948 |
| 527-2008-100K    | RL2008-52.3K-155-D1 | 100K     | .220    | .170    | .156    | 24      | 1.08       | .948 |
| 527-3504-50      | RL3504-31.2-73-D1   | 50       | .370    | .130    | .250    | 24      | .99        | .897 |
| 527-3005-1K      | RL3005-574-103-D1   | 1K       | .320    | .140    | .250    | 24      | .99        | .897 |

## INRUSH CURRENT LIMITERS

Limiters protect against extremely high peak inrush current, especially in AC/DC switching power supplies. These NTC thermistors effectively control surge currents because the thermal time constant of the current limiter is longer than the electrical time constant (RC) of the thermistor and the capacitor.

Also available, by special order, with kinked leads.



DIMENSIONS: in.



For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | GE Part No. | Ohms (Ω) | Amps | A Max. (in.) | B Max. (in.) | C Ref. (in.) | D (AWG) | Price Each |      |      |
|------------------|-------------|----------|------|--------------|--------------|--------------|---------|------------|------|------|
|                  |             |          |      |              |              |              |         | 1          | 10   | 100  |
| 527-CL30         | CL30        | 2.5      | 8    | .77          | .22          | .328         | 18      | 1.33       | 1.27 | 1.14 |
| 527-CL40         | CL40        | 5        | 6    | .77          | .22          | .328         | 18      | 1.39       | 1.33 | 1.27 |
| 527-CL50         | CL50        | 7        | 5    | .77          | .26          | .328         | 18      | 1.41       | 1.26 | .877 |
| 527-CL60         | CL60        | 10       | 5    | .77          | .22          | .328         | 18      | 1.41       | 1.26 | .877 |
| 527-CL70         | CL70        | 16       | 4    | .77          | .22          | .328         | 18      | 1.41       | 1.26 | .877 |
| 527-CL80         | CL80        | 47       | 3    | .77          | .22          | .328         | 18      | 1.41       | 1.26 | .877 |
| 527-CL90         | CL90        | 120      | 2    | .93          | .22          | .328         | 18      | 1.75       | 1.57 | 1.08 |

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | GE Part No. | Ohms (Ω) | Amps | A Max. (in.) | B Max. (in.) | C Ref. (in.) | D (AWG) | Price Each |      |      |
|------------------|-------------|----------|------|--------------|--------------|--------------|---------|------------|------|------|
|                  |             |          |      |              |              |              |         | 1          | 10   | 100  |
| 527-CL110        | CL110       | 10       | 3.2  | .40          | .17          | .250         | 24      | 1.24       | 1.11 | .765 |
| 527-CL120        | CL120       | 10       | 1.7  | .40          | .17          | .250         | 24      | 1.24       | 1.11 | .765 |
| 527-CL130        | CL130       | 50       | 1.6  | .45          | .17          | .250         | 24      | 1.24       | 1.11 | .765 |
| 527-CL140        | CL140       | 50       | 1.1  | .45          | .17          | .250         | 24      | 1.24       | 1.11 | .765 |
| 527-CL150        | CL150       | 5        | 4.7  | .55          | .18          | .328         | 22      | 1.27       | 1.14 | .785 |
| 527-CL160        | CL160       | 5        | 2.8  | .55          | .18          | .328         | 22      | 1.90       | 1.25 | .96  |
| 527-CL180        | CL180       | 16       | 1.7  | .55          | .18          | .328         | 22      | 1.38       | 1.21 | 1.04 |
| 527-CL190        | CL190       | 25       | 2.4  | .55          | .18          | .328         | 22      | 1.27       | 1.14 | .785 |
| 527-CL200        | CL200       | 25       | 1.7  | .55          | .18          | .328         | 22      | 1.64       | 1.46 | 1.00 |
| 527-CL210        | CL210       | 30       | 1.5  | .40          | .20          | .250         | 24      | .83        | .734 | .632 |

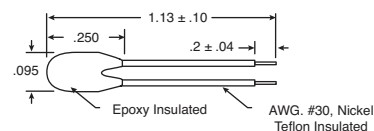
## MINIATURE SENSORS 1°C ACCURACY

### Features:

- Temperature accuracy: ±1°C @ 25°C
- Dissipation constant: 1.4mW/°C
- Time constant: 15 sec.
- Operating range: -50°C to +150°C



DIMENSIONS: in.



For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | GE Part No.          | GE Type (RL0503) | Material | Ohms (Ω) @ 25°C | Temperature Coef. %/°C @ 25°C | Price Each |      |      |      |
|------------------|----------------------|------------------|----------|-----------------|-------------------------------|------------|------|------|------|
|                  |                      |                  |          |                 |                               | 1          | 10   | 25   | 100  |
| 527-0503-2K      | RL0503-1248-73-MS    | 1248-73-MS       | MS73     | 2K              | -3.83                         | 1.55       | 1.47 | 1.40 | 1.33 |
| 527-0503-5K      | RL0503-2890-95-MS    | 2890-95-MS       | MS95     | 5K              | -4.43                         | 1.55       | 1.47 | 1.40 | 1.33 |
| 527-0503-10K     | RL0503-5820-97-MS    | 5820-97-MS       | MS97     | 10K             | -4.40                         | 1.55       | 1.47 | 1.40 | 1.33 |
| 527-0503-30K     | RL0503-17.56K-96-MS  | 17.56K-96-MS     | MS96     | 30K             | -4.32                         | 1.55       | 1.47 | 1.40 | 1.33 |
| 527-0503-50K     | RL0503-27.53K-120-MS | 27.53K-120-MS    | MS120    | 50K             | -4.84                         | 1.55       | 1.47 | 1.40 | 1.33 |
| 527-0503-100K    | RL0503-55.36K-122-MS | 55.36K-122-MS    | MS122    | 100K            | -4.78                         | 1.55       | 1.47 | 1.40 | 1.33 |

## GLASS ENCAPSULATED

### Features:

- For reel taping "R" suffix
- Nickel leads for welding
- Other resistances in the range 25Ω to 5Ω
- Other tolerances, tolerances at other temperatures
- Alternative lead lengths, lead materials
- Can be expanded to 572°F (300°C) with nickel leads
- Standard resistance tolerance: ±10% @ 77°F (25°C)
- Time constant: 7 seconds
- Operating range: -58°F to 400°F (-50°C to 204°C)

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | GE Part No.         | Material System | Beta 25/85 | Ohms (Ω) @ 25°C | Dissipation Constant | Price Each |      |      |      |
|------------------|---------------------|-----------------|------------|-----------------|----------------------|------------|------|------|------|
|                  |                     |                 |            |                 |                      | 1          | 10   | 25   | 100  |
| 527-AL3006-1M    | AL03006-535K-145-G1 | GE14.5          | 4661       | 1M              | 3.0mW/K              | 2.54       | 1.65 | 1.50 | 1.26 |
| 527-AL3006-100K  | AL03006-58.2K-97-G1 | GE9.7B          | 3952       | 100K            | 3.0mW/K              | 2.54       | 1.65 | 1.50 | 1.26 |
| 527-AL03006-5818 | AL03006-5818-97-G1  | GE9.7A          | 3992       | 10K             | 3.0mW/K              | 2.54       | 1.65 | 1.50 | 1.26 |