

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 Type MS

## Thermometrics Epoxy-Coated Thermistor



### Description

Epoxy-coated point-matched disc thermistors with 0.01 in (0.254 mm) nickel PTFE insulated lead-wires.

### Features

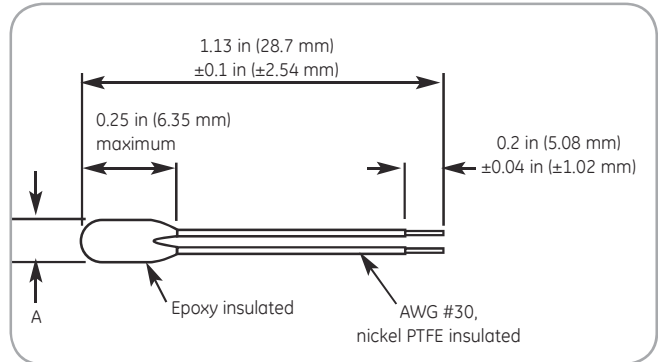
- Low cost, solid state temperature sensor
- High sensitivity to changes in temperature
- Suitable for temperature measurement, control and compensation
- Standard resistance tolerances down to  $\pm 2\%$
- Excellent mechanical strength
- Wide operating temperature range:  $-58^{\circ}\text{F}$  to  $300^{\circ}\text{F}$  ( $-50^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ )
- Suitable for PCB and probe mountings
- Available in a wide range of material systems
- Overall lengths from 0.71 in to 3.07 in (18 mm to 78 mm)

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# Type MS Specifications

Epoxy-coated thermistor

| Type Number          | Ro@ 77 °F<br>(25 °C) (Ω) | Material System | A in  | mm   |
|----------------------|--------------------------|-----------------|-------|------|
| RL0703-624-73-MS     | 1K                       | D7.3            | 0.120 | 3.05 |
| RL0503-1248-73-MS    | 2K                       | D7.3            | 0.095 | 2.41 |
| RL0703-1445-95-MS    | 2.5K                     | D9.5            | 0.120 | 3.05 |
| RL0503-2890-95-MS    | 5K                       | D9.5            | 0.095 | 2.41 |
| RL0703-2910-97-MS    | 5K                       | D9.7A           | 0.120 | 3.05 |
| RL0703-3720-84-MS    | 6K                       | D8.4            | 0.120 | 3.05 |
| RL0503-5820-97-MS    | 10K                      | D9.7A           | 0.095 | 2.41 |
| RL0703-5744-103-MS   | 10K                      | D10.3           | 0.120 | 3.05 |
| RL0503-7440-84-MS    | 12K                      | D8.4            | 0.095 | 2.41 |
| RL0703-8780-96-MS    | 15K                      | F9.61           | 0.120 | 3.05 |
| RL0503-11.49K-103-MS | 20K                      | D10.3           | 0.095 | 2.41 |
| RL0703-13.77K-120-MS | 25K                      | D12.0           | 0.120 | 3.05 |
| RL0503-17.56K-96-MS  | 30K                      | F9.61           | 0.095 | 2.41 |
| RL0503-27.53K-120-MS | 50K                      | D12.0           | 0.095 | 2.41 |
| RL0703-27.68K-122-MS | 50K                      | D12.2           | 0.120 | 3.05 |
| RL0503-55.36K-122-MS | 100K                     | D12.2           | 0.095 | 2.41 |



NTC Type MS Dimensions

## Options

- Other resistances in the range 2 kΩ to 100 kΩ
- Other tolerances, tolerances at other temperatures
- Alternative lead lengths, lead materials, insulations
- For ±5% @ 77°F (25°C), replace “MS” with “MS5”
- For ±3% @ 77°F (25°C), replace “MS” with “MS3”
- For ±2% @ 77°F (25°C), replace “MS” with “MS2”

## Data

- Temperature accuracy: ±1°C @ 77°F (25°C)
- Dissipation constant: 1.4 mW/°C
- Time constant: 15 seconds
- Operating range: -58°F to 302°F (-50°C to 150°C)

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