



# NTC THERMISTORS: TYPE MS

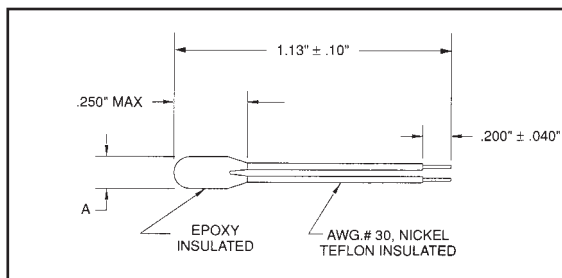
## EPOXY COATED THERMISTOR

### DESCRIPTION:

Epoxy coated point-matched disc thermistors with .010" nickel PTFE insulated lead-wires.

### FEATURES:

- Low cost solid state sensor
- Standard 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:  $-50^{\circ}\text{C}$  to  $150^{\circ}\text{C}$
- Suitable for PCB and probe mountings
- Available in a wide range of material systems
- Overall lengths from 18mm to 78mm (0.71" to 3.07")



| TYPE NUMBER          | Ro@25C<br>(Ohms) | Material<br>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  |

### OPTIONS:

- Other resistances in the range 2k $\Omega$  to 100k $\Omega$
- Other tolerances, tolerances at other temperatures
- Alternative lead lengths, lead materials, insulations
- For  $\pm 5\%$  @  $25^{\circ}\text{C}$ , replace "MS" with "MS5"
- For  $\pm 3\%$  @  $25^{\circ}\text{C}$ , replace "MS" with "MS3"
- For  $\pm 2\%$  @  $25^{\circ}\text{C}$ , replace "MS" with "MS2"

### DATA:

**Temperature Accuracy**.....  $\pm 1^{\circ}\text{C}$  @  $25^{\circ}\text{C}$   
**Dissipation Constant**..... 1.4 mW/ $^{\circ}\text{C}$   
**Time Constant**..... 15 sec.  
**Operating Range** .....  $-50^{\circ}\text{C}$  to  $150^{\circ}\text{C}$

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