THERMOMETRICS
A COMMITMENT TO EXCELLENCE

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 ±2%
- Excellent mechanical strength
- Wide operating temperature range: -58°F to 300°F (-50°C to 150°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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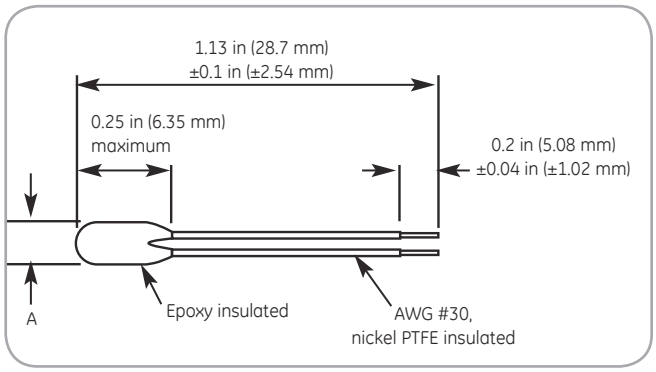
Type MS Specifications

Epoxy-coated thermistor

Type Number	Ro@ 77 °F (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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