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# Life Sciences & Micro Temperature Probes

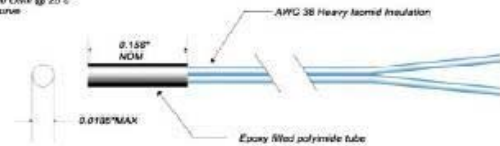
## LSMC Micro Series



### LSMC 10K

10,000 Ohms at 25°C "A" Curve

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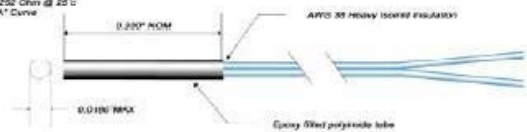


### LSMC 400 Series

2252 Ohms at 25°C "A" Curve

400 Series

2252 Ohm @ 25°C "A" Curve



### FEATURES:

- Interchangeable or Point Matched tolerances
- Fast response accuracy to  $\pm 0.1^{\circ}\text{C}$
- Custom designs at a low cost
- Potted with epoxy in a polyimide tube
- Operable with YSI 400 and 700 temperature monitor instruments.

These tiny thermistors can be used in Life Science applications that require fast response and small size. Since they are available in many custom options they can be used in unlimited temperature sensing applications in any industry.

## SPECIFICATIONS

### Temperature rating/ recommended operating ranges

LSMC Series thermistors may be intermittently cycled at temperatures from  $-50^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ . Optimum stability is achieved when they are stored at temperatures less than  $50^{\circ}\text{C}$  and operated continuously in temperatures less than  $100^{\circ}\text{C}$ . For Interchangeable LSMC Series thermistors optimum stability is achieved when they are operated at temperatures within the specified temperature range.

### R/T curves

LSMC Series is manufactured with "A" R/T curve material. Detailed curve material information on pages 24-26.

### Dissipation constant

0.3mW/ $^{\circ}\text{C}$  in still air  
2.5mW/ $^{\circ}\text{C}$  in stirred oil

### Thermal time constant

Typically 0.25 second in stirred oil

### Tolerances

$\pm 0.10^{\circ}\text{C}$   
 $\pm 0.20^{\circ}\text{C}$   
 $\pm 0.25^{\circ}\text{C}$   
 $\pm 0.50^{\circ}\text{C}$   
 $\pm 1.00^{\circ}\text{C}$   
 $\pm 1\%$   
 $\pm 2\%$   
 $\pm 5\%$   
 $\pm 10\%$

### Custom options

Lead materials:  
AWG 38 nickel alloy or copper conductors with heavy isomid insulation, parallel bonded configuration. Parylene coating is available which provides a thin coating resistant to corrosion and humidity.

### To order specify:

- Series LSMC
- Tolerance
- Lead material and length