



# NTC THERMISTORS: TYPE C100

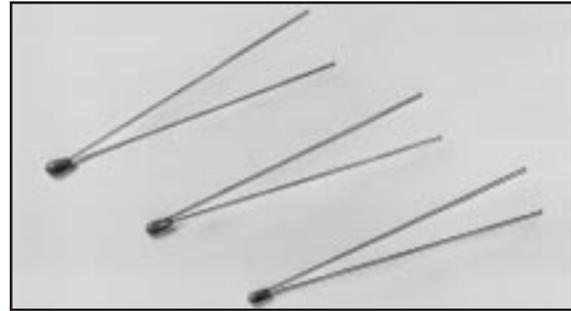
## EPOXY COATED CHIP THERMISTOR

### DESCRIPTION:

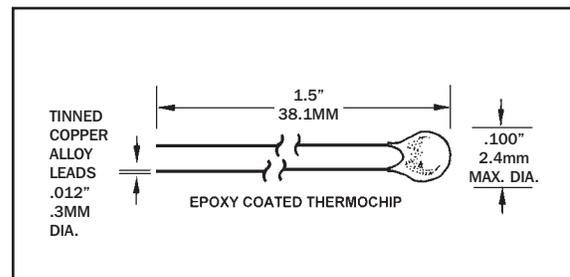
Epoxy Coated chip thermistors with bare tinned copper lead-wires.

### FEATURES:

- Low cost, solid state temperature sensor
- Point matched at 25°C to ±1%, ±2%, ±5% or ±10%
- Suitable for use over range of -80°C to +150°C
- High sensitivity greater than -4%/°C at 25°C
- Suitable for temperature measurement, control and compensation
- High reliability and stability
- Resin coated for good mechanical strength and resistance to solvents
- .012" (.3 mm) dia. bare tinned copper lead-wires



### DIMENSIONS:



Select appropriate part number below for resistance and temperature tolerance desired

| R <sub>25°C</sub> | MATERIAL SYSTEM | R <sub>25°C</sub> ± 1% | R <sub>25°C</sub> ± 2% | R <sub>25°C</sub> ± 5% | R <sub>25°C</sub> ± 10% |
|-------------------|-----------------|------------------------|------------------------|------------------------|-------------------------|
| 2000              | F               | C100F202F              | C100F202G              | C100F202J              | C100F202K               |
| 2252              | F               | C100F232F              | C100F232G              | C100F232J              | C100F232K               |
| 3000              | F               | C100F302F              | C100F302G              | C100F302J              | C100F302K               |
| 5000              | F               | C100F502F              | C100F502G              | C100F502J              | C100F502K               |
| 10000             | F               | C100F103F              | C100F103G              | C100F103J              | C100F103K               |
| 10000             | Y               | C100Y103F              | C100Y103G              | C100Y103J              | C100Y103K               |
| 15000             | F               | C100F153F              | C100F153G              | C100F153J              | C100F153K               |
| 20000             | F               | C100F203F              | C100F203G              | C100F203J              | C100F203K               |
| 30000             | H               | C100H303F              | C100H303G              | C100H303J              | C100H303K               |
| 50000             | G               | C100G503F              | C100G503G              | C100G503J              | C100G503K               |
| 100000            | Y               | C100Y104F              | C100Y104G              | C100Y104J              | C100Y104K               |
| 100000            | G               | C100G104F              | C100G104G              | C100G104J              | C100G104K               |

### OPTIONS:

Consult factory for availability of options:

- Other resistance values in the range of 100Ω - 100kΩ
- Other tolerances
- Alternative lead lengths
- Other reference temperatures
- Alternative lead wires or lengths

### DATA:

#### THERMAL AND ELECTRICAL PROPERTIES:

**Dissipation constant:**.....(still air) 1 mW/°C  
(stirred oil) 8 mW/°C

**Thermal time constant:**.....(still air) 10 sec.  
(stirred oil) 1 sec.

**Maximum power at 25°C** .....75mW  
(derated from 100% at 25°C to 0% at 100°C)

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