



# NTC THERMISTORS: TYPE SC50

## INSULATED LEAD INTERCHANGEABLE CHIP THERMISTOR

### DESCRIPTION:

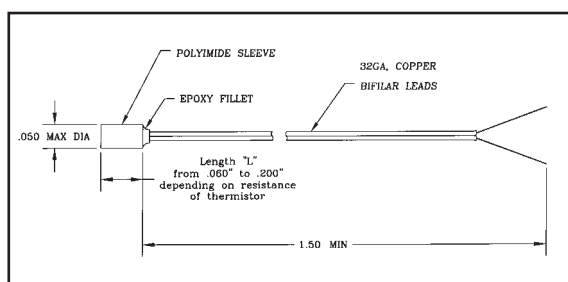
Sleeved interchangeable chip thermistors with heavy isomid insulated Copper lead-wires.

### FEATURES:

- Precision, solid state temperature sensor
- Epoxy filled sleeve for controlled diameter
- Interchangeability down to  $\pm 0.1^{\circ}\text{C}$
- Suitable for use over the range of  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- High sensitivity greater than  $-4\%/^{\circ}\text{C}$  at  $25^{\circ}\text{C}$
- Suitable for temperature measurement, control and compensation
- High reliability and stability over interchangeable range
- Ideal for Medical applications
- Most popular R-vs-T curves are available
- Fully insulated
- Sleeved for good mechanical strength and resistance to solvents
- .008" (.2 mm) dia. heavy isomid insulated Bifilar Copper lead-wires



### DIMENSIONS:



Select appropriate part number below for resistance and temperature tolerance desired

R <sub>25°C</sub>	MATERIAL SYSTEM	$\pm .1^{\circ}\text{C}$ 0°C to 70°C	$\pm .2^{\circ}\text{C}$ 0°C to 70°C
2252	F	SC50F232V	SC50F232W
3000	F	SC50F302V	SC50F302W
5000	F	SC50F502V	SC50F502W
10000	F	SC50F103V	SC50F103W
10000	Y	SC50Y103V	SC50Y103W
30000	H	SC50H303V	SC50H303W
50000	G	SC50G503V	SC50Y503W
100000	Y	SC50Y104V	SC50Y104W
100000	G	SC50G104V	SC50G104W

### OPTIONS:

Consult factory for availability of options:

- Other resistance values in the range of  $100\Omega$  -  $100\text{k}\Omega$
- Other tolerances or ranges
- Alternative lead wires or lengths
- Non standard R-vs-T curves
- Controlled dimensions

### DATA:

#### THERMAL AND ELECTRICAL PROPERTIES:

**Dissipation constant:**.....(still air) .5 mW/ $^{\circ}\text{C}$   
(stirred oil) 4 mW/ $^{\circ}\text{C}$

**Thermal time constant:**.....(still air) 8 sec.  
(stirred oil) .5 sec.

**Maximum power at 25°C** ..... mW  
(derated from 100% at  $25^{\circ}\text{C}$  to 0% at  $100^{\circ}\text{C}$ )

**BOWTHORPE THERMOMETRICS**  
Crown Industrial Estate, Priorswood Road  
Taunton, Somerset TA2 8QY UK  
Tel +44 (0) 1823 335200  
Fax +44 (0) 1823 332637

**THERMOMETRICS, INC.**  
808 US Highway 1  
Edison, New Jersey 08817-4695 USA  
Tel +1 (732) 287 2870  
Fax +1 (732) 287 8847

**KEYSTONE THERMOMETRICS CORPORATION**  
967 Windfall Road  
St. Marys, Pennsylvania 15857-3397 USA  
Tel +1 (814) 834 9140  
Fax +1 (814) 781 7969