



NTC THERMISTORS: TYPE SC50

INSULATED LEAD INTERCHANGEABLE CHIP THERMISTOR

DESCRIPTION:

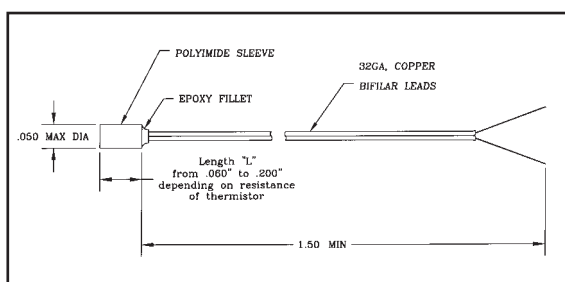
Sleeved interchangeable chip thermistors with heavy isomid insulated Copper lead-wires.

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°C to $+105^{\circ}\text{C}$
- High sensitivity greater than $-4\%/^{\circ}\text{C}$ at 25°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 _{25°C}	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 100Ω - $100k\Omega$
- 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°C to 0% at 100°C)

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