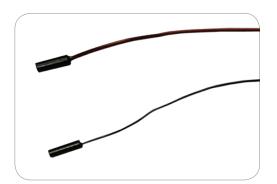
## NTC Interchangeable Thermistor Series Type SC



### **Features**

- · Precision, solid state temperature sensor
- Epoxy filled sleeve for controlled diameter
- Interchangeability down to ±0.18°F (±0.10°C)
- Suitable for use over the range of: -40°F to 221°F (-40°C to 105°C)
- High sensitivity greater than:
   -4%/°C at 77°F (25°C)
- Most popular Resistance (R) vs Temperature (T) curves are available
- Suitable for temperature measurement, control and compensation

- Ideal for medical applications
- Fully insulated
- Polyimide sleeved for good mechanical strength and resistance to solvents
- 0.008 in (0.2 mm) diameter heavy isomid insulated bifilar copper lead wires for SC50
- 0.004 in (0.1 mm) diameter heavy isomid insulated bifilar nickel lead wires for SC30

**Amphenol**Advanced Sensors

## Type SC30 Specifications

## **NTC Interchangeable Type SC30**

Polyimide sleeved, interchangeable chip thermistors with heavy isomid insulated nickel lead-wires.

## **Options**

### **Consult Factory for Availability of Options**

- Other resistance values in the range of 1000  $\Omega$  to 100  $k\Omega$
- Other tolerances or ranges
- · Alternative lead wires or lengths
- Non standard R vs T curves
- · Controlled dimensions

### **Thermal and Electrical Properties**

### **Dissipation Constant**

Still air: 0.4 mW/°C Stirred oil: 3 mW/°C

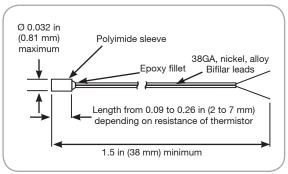
#### **Thermal Time Constant**

Still air: 5 seconds
Stirred oil: 0.3 seconds

### Maximum Power at 77°F (25°C)

~30 mW

De-rated from 100% at 77°F (25°C) to 0% at 212°F (100°C)



NTC Interchangeable Type SC30 dimensions

## **Ordering Information**

Select appropriate part number below for resistance and temperature tolerance desired.

| R <sub>25°C</sub> | Material<br>System | ±0.18°F (±0.1°C)<br>32°F to 158°F<br>(0°C to 70°C) | ±0.36°F (±0.2°C)<br>32°F to 158°F<br>(0°C to 70°C) |
|-------------------|--------------------|--|--|
| 2252              | F                  | SC30F232V  | SC30F232W  |
| 3000              | F                  | SC30F302V  | SC30F302W  |
| 5000              | F                  | SC30F502V  | SC30F502W  |
| 10000             | F                  | SC30F103V  | SC30F103W  |
| 10000             | Υ                  | SC30Y103V  | SC30Y103W  |
| 30000             | Н                  | SC30H303V  | SC30H303W  |
| 50000             | G                  | SC30G503V  | SC30G503W  |
| 100000            | Υ                  | SC30Y104V  | SC30Y104W  |
| 100000            | G                  | SC30G104V  | SC30G104W  |

### Notes:

- For RoHS compliant product, please add the suffix "N" to the part label. Example: SC30F103VN
- For RoHS compliant product with applications below 0°C, please add the suffix "H" to the part label. Example: SC30F103VH

# Type SC50 Specifications

## **NTC Interchangeable Type SC50**

Polyimide sleeved, interchangeable chip thermistors with heavy isomid insulated copper lead wires.

## **Options**

### **Consult Factory for Availability of Options.**

- Other resistance values in the range of 1000  $\Omega$  to 100  $k\Omega$
- Other tolerances or ranges
- · Alternative lead wires or lengths
- Non standard R vs T curves
- · Controlled dimensions

## **Thermal and Electrical Properties**

### **Dissipation Constant**

Still air: 0.5 mW/°C Stirred oil: 0.4 mW/°C

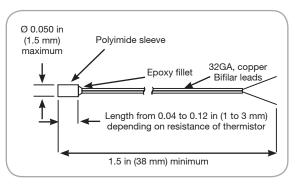
#### **Thermal Time Constant**

Still air: 8 seconds Stirred oil: 0.5 seconds

### Maximum Power at 77°F (25°C)

~50 mW

De-rated from 100% at 77°F (25°C) to 0% at 212°F (100°C)



NTC Interchangeable Type SC50 dimensions

## **Ordering Information**

Select appropriate part number below for resistance and temperature tolerance desired.

| R <sub>25°C</sub> | Material<br>System | ±0.18°F (±0.1°C)<br>32°F to 158°F<br>(0°C to 70°C) | ±0.36°F (±0.2°C)<br>32°F to 158°F<br>(0°C to 70°C) |
|-------------------|--------------------|--|--|
| 2252              | F                  | SC50F232V  | SC50F232W  |
| 3000              | F                  | SC50F302V  | SC50F302W  |
| 5000              | F                  | SC50F502V  | SC50F502W  |
| 10000             | F                  | SC50F103V  | SC50F103W  |
| 10000             | Υ                  | SC50Y103V  | SC50Y103W  |
| 30000             | Н                  | SC50H303V  | SC50H303W  |
| 50000             | G                  | SC50G503V  | SC50G503W  |
| 100000            | Υ                  | SC50Y104V  | SC50Y104W  |
| 100000            | G                  | SC50G104V  | SC50G104W  |

### Notes:

- For RoHS compliant product, please add the suffix "N" to the part label. Example: SC50F103VN
- For RoHS compliant product with applications below 0°C, please add the suffix "H" to the part label. Example: SC50F103VH



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