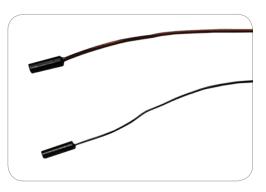


# NTC Interchangeable Thermistor Series Type SC



## **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

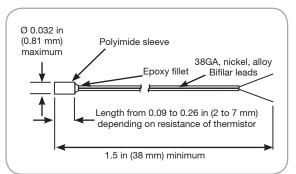
### **Thermal Time Constant**

Still air:5 secondsStirred 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 System	±0.18°F (±0.1°C) 32°F to 158°F (0°C to 70°C)	±0.36°F (±0.2°C) 32°F to 158°F (0°C to 70°C)
2252	F	SC30F232V	SC30F232W
3000	F	SC30F302V	SC30F302W
5000	F	SC30F502V	SC30F502W
10000	F	SC30F103V	SC30F103W
10000	Y	SC30Y103V	SC30Y103W
30000	Н	SC30H303V	SC30H303W
50000	G	SC30G503V	SC30G503W
100000	Y	SC30Y104V	SC30Y104W
100000	G	SC30G104V	SC30G104W

#### Notes:

- 1. 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

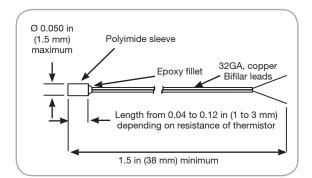
### **Thermal Time Constant**

Still air:8 secondsStirred 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 System	±0.18°F (±0.1°C) 32°F to 158°F (0°C to 70°C)	±0.36°F (±0.2°C) 32°F to 158°F (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	Н	SC50H303V	SC50H303W
50000	G	SC50G503V	SC50G503W
100000	Y	SC50Y104V	SC50Y104W
100000	G	SC50G104V	SC50G104W

#### Notes:

- 1. 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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