

FEP Sheath for Hostile Environments  
100 Ohm to 1 MEG Ohm Resistance @ 25°C  
Interchangeable  $\pm 0.2^\circ\text{C}$ , 0°C to 70°C  
Good Long Term Stability  
High Sensitivity  
Pressed Disk Ceramic Characteristics  
RoHS Compliant



## 44100 SERIES THERMISTORS

FEP sheathed epoxy encapsulated precision interchangeable NTC thermistor utilizing high stability pressed-disk ceramic sensor for use in harsh chemical environments. Sensor is protected by a 2" (51mm) FEP sheath for protection from harsh chemicals. One inner lead is sleeved with PTFE tubing for insulation. A nickel stiffening wire allows shaping of the sheath.

## FEATURES

- FEP Sheath
- 100 Ohm to 1 MEG Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

## APPLICATIONS

- Harsh Chemical Environments
- Moderate Temperature Applications
- Tight Tolerance Applications
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments

## Interchangeability

The term interchangeability refers to how accurately thermistors track a nominal resistance curve. In the case of a  $\pm 0.2^\circ\text{C}$  part, through all portions of the interchangeable range, the part is within  $\pm 0.2^\circ\text{C}$  of the nominal value for that part. This term is sometimes confused with accuracy. Keep in mind the  $\pm 0.2^\circ\text{C}$  figure only refers to nominal curve; absolute accuracy for thermistor at a measured temperature is significantly better. Contact us directly if you require more information.

# 44100 Series Thermistor Components

## Product Definition

**±0.2°C  
Interchange-  
ability  
Tolerance  
0 – 70°C**

| Part Number           | Zero Power Resistance ohm at 25°C | Beta 0- 50°C (K) | Ratio ohm 25/125°C | Maximum working temperature | Best storage and working temperature |
|-----------------------|-----------------------------------|------------------|--------------------|-----------------------------|--------------------------------------|
| <a href="#">44101</a> | 100                               | 2854             | 11.49              | 100°C                       | -80 + 50°C                           |
| <a href="#">44102</a> | 300                               | 3118             | 15.15              | 100°C                       | -80 + 50°C                           |
| <a href="#">44103</a> | 1000                              | 3271             | 17.33              | 100°C                       | -80 + 50°C                           |
| <a href="#">44104</a> | 2252                              | 3891             | 29.26              | 150°C                       | -80 + 120°C                          |
| <a href="#">44105</a> | 3000                              | 3891             | 29.26              | 150°C                       | -80 + 120°C                          |
| <a href="#">44107</a> | 5000                              | 3891             | 29.26              | 150°C                       | -80 + 120°C                          |
| <a href="#">44106</a> | 10K                               | 3574             | 23.51              | 150°C                       | -80 + 120°C                          |
| <a href="#">44108</a> | 30K                               | 3810             | 29.15              | 150°C                       | -80 + 120°C                          |
| <a href="#">44111</a> | 100K                              | 3988             | 34.82              | 150°C                       | -80 + 120°C                          |
| <a href="#">44114</a> | 300K                              | 4276             | 46.02              | 150°C                       | -80 + 120°C                          |
| <a href="#">44115</a> | 1 meg                             | 4582             | 61.96              | 150°C                       | -80 + 120°C                          |

## Ordering Information

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