



44100 SERIES

Thermistor Components

Teflon® 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) Teflon® sheath for protection from harsh chemicals. One inner lead is sleeved with Teflon® tubing for insulation. A nickel stiffening wire allows shaping of the sheath.

Interchangeability

The term interchangeability refers to how accurately thermistors track a nominal resistance curve. In the case of a $\pm 0.2^{\circ}\text{C}$, 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.

Features

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

Performance Specifications

| | Model Number | Ordering 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 |
|---|--------------|----------------------|-----------------------------------|------------------|--------------------|-----------------------------|--------------------------------------|
| ±0.2°C Interchangeability Tolerance 0 – 70°C | 44101 | 095311 | 100 | 2854 | 11.49 | 100°C | -80 + 50°C |
| | 44102 | 095312 | 300 | 3118 | 15.15 | 100°C | -80 + 50°C |
| | 44103 | 095313 | 1000 | 3271 | 17.33 | 100°C | -80 + 50°C |
| | 44104 | 095403 | 2252 | 3891 | 29.26 | 150°C | -80 + 120°C |
| | 44105 | 095404 | 3000 | 3891 | 29.26 | 150°C | -80 + 120°C |
| | 44107 | 095406 | 5000 | 3891 | 29.26 | 150°C | -80 + 120°C |
| | 44106 | 095405 | 10K | 3574 | 23.51 | 150°C | -80 + 120°C |
| | 44108 | 095407 | 30K | 3810 | 29.15 | 150°C | -80 + 120°C |
| | 44111 | 095408 | 100K | 3988 | 34.82 | 150°C | -80 + 120°C |
| | 44114 | 095409 | 300K | 4276 | 46.02 | 150°C | -80 + 120°C |
| | 44115 | 095410 | 1 meg | 4582 | 61.96 | 150°C | -80 + 120°C |

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
Tel: 800-522-6752
customercare.ando@te.com

EUROPE

Measurement Specialties (Europe), Ltd.,
a TE Connectivity Company
Tel: 800-440-5100
customercare.tlse@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Tel: 0400-820-6015
customercare.chdu@te.com

te.com/sensorsolutions

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