

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 |
|-----------------------|-----------------------------------|------------------|--------------------|-----------------------------|--------------------------------------|
| 44101 | 100 | 2854 | 11.49 | 100°C | -80 + 50°C |
| 44102 | 300 | 3118 | 15.15 | 100°C | -80 + 50°C |
| 44103 | 1000 | 3271 | 17.33 | 100°C | -80 + 50°C |
| 44104 | 2252 | 3891 | 29.26 | 150°C | -80 + 120°C |
| 44105 | 3000 | 3891 | 29.26 | 150°C | -80 + 120°C |
| 44107 | 5000 | 3891 | 29.26 | 150°C | -80 + 120°C |
| 44106 | 10K | 3574 | 23.51 | 150°C | -80 + 120°C |
| 44108 | 30K | 3810 | 29.15 | 150°C | -80 + 120°C |
| 44111 | 100K | 3988 | 34.82 | 150°C | -80 + 120°C |
| 44114 | 300K | 4276 | 46.02 | 150°C | -80 + 120°C |
| 44115 | 1 meg | 4582 | 61.96 | 150°C | -80 + 120°C |

联系方式



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