



## 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 @  $25^{\circ}\text{C}$
- Interchangeability  $\pm 0.2^{\circ}\text{C}$ ,  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$
- 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
<b>±0.2°C Interchangeability Tolerance 0 – 70°C</b>	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

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