



Liebe Leserinnen und Leser,

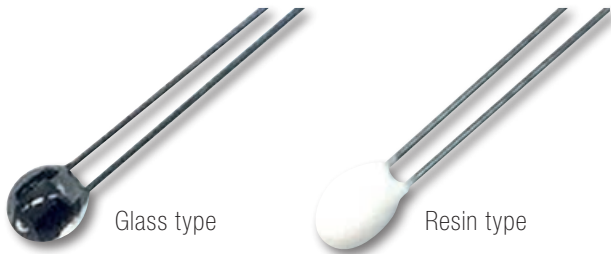
auf Grund der Internationalisierung unseres Kundenkreises haben wir uns dazu entschlossen die Endrich News zukünftig nur in Englisch zu erstellen. Viele Begriffe sind Ihnen bereits aus dem Englischen bekannt. Der Leitartikel bleibt selbstverständlich auf deutsch. Wir Danken für Ihr Verständnis!

SEMITEC®

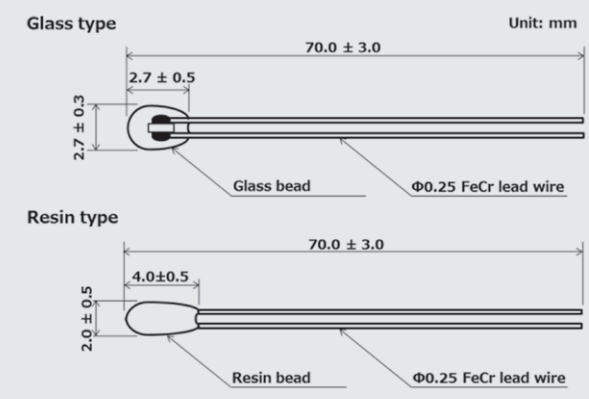


## HIGH TEMPERATURE SENSORS – NTC THERMISTOR FOR UP TO 500°C

**SEMITEC's 500°C thermistor** is a new development. The sensor uses our NTC thermistor know-how and by changing the production process and material composition of the thermistor elements we have succeeded to further improve the sensor temperature range.



### DIMENSIONS (PRELIMINARY)



### APPLICATIONS

- Automotive exhaust / EGR system
- High temperature 3D printers
- Cooking appliances / Induction hob
- Medical / beauty / healthcare appliances
- Pt RTD & thermocouple replacements
- Other high temperature applications

### HIGHLIGHTS

- Humidity and chemical reagent resistant glass type
- Cost effective resin type
- RoHS and ELV compliant
- Pb free glass type
- Very wide temperature range up to +500°C

ITEM

RATING

CONDITION

### CHARACTERISTICS (PRELIMINARY)

<b>Resistance: <math>R_{25}</math></b>	500 kΩ ± 3%	Resistance at 25 °C temperature
<b>Beta value: <math>B_{25/85}</math></b>	3800 K ± 2%	-
<b>Dissipation factor: <math>\delta</math></b>	1.0 to 1.5 mW/°C	25 °C (still air)
<b>Thermal time constant: <math>\tau</math></b>	15 sec max.	25 °C (still air)
<b>Operating temp. range</b>	- 40 °C to 500 °C	-
<b>Max operating temperature</b>	1000 h @ 450 °C, 50 h @ 500 °C	-
<b>Insulation resistance</b>	> 100 MΩ at DC 500 V	Between lead wire and thermistor coating