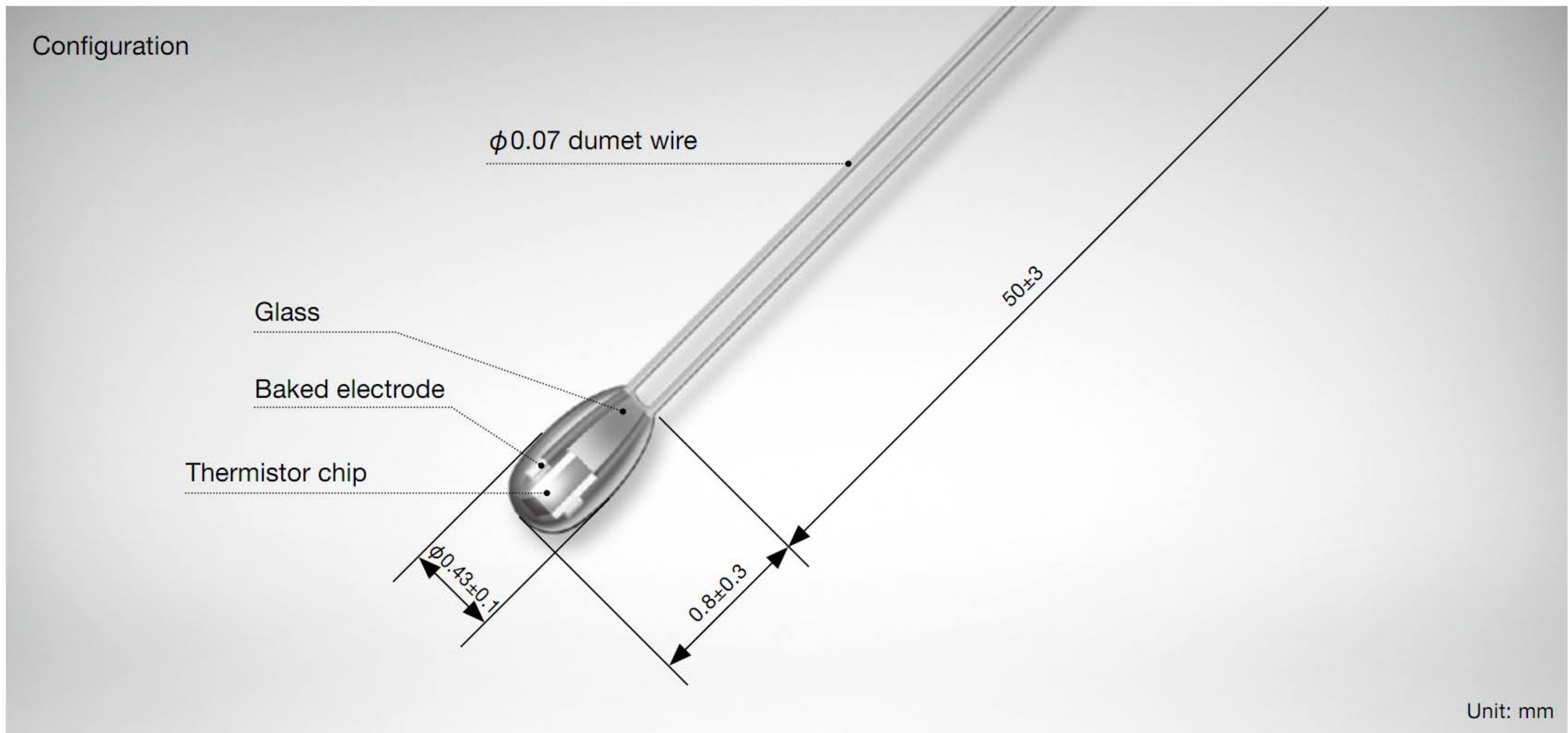


# PSB-S9 thermistor



## A micro-miniature thermistor with a super-fast response

With an external size of  $\phi 0.43\text{mm}$ , the PSB-S9 is the most compact glass-encapsulated thermistor in the world that can be mass produced. Compared to the PSB-S7, the PSB-S9 has 50% the volume and two times faster in response. It was developed for sensors requiring a very fast response, microsize and high reliability. The PSB-S9 is used for office equipment such as printers and copying machines that require a fast response. It is also used in non-contact sensors and further, such as medical equipment, where micro-miniature sensors are required.

### Features

- ◆ The most compact glass-encapsulated thermistor
- ◆ Chip with gold electrodes
- ◆ High-level heat resistance and environmental stability secured by glass encapsulation
- ◆ Long-term stability in resistance
- ◆ High-volume supply in high quality by integrated automatic production

### Applications

- Suitable for medical and other equipment requiring a super-fast response, and also for test equipment for designing thermal components
- Medical catheters
  - High response sensors for copying machine and printer fusers
  - Non-contact sensors
  - Test equipment requiring accurate measurements

### Operating temperature

-50 to +250°C

### Thermal time constant

Approx. 0.6 sec.

### Dissipation constant

Approx. 0.15mW/°C

### Insulation resistance

Min. 10M $\Omega$  at 50VDC

### V-I characteristics

