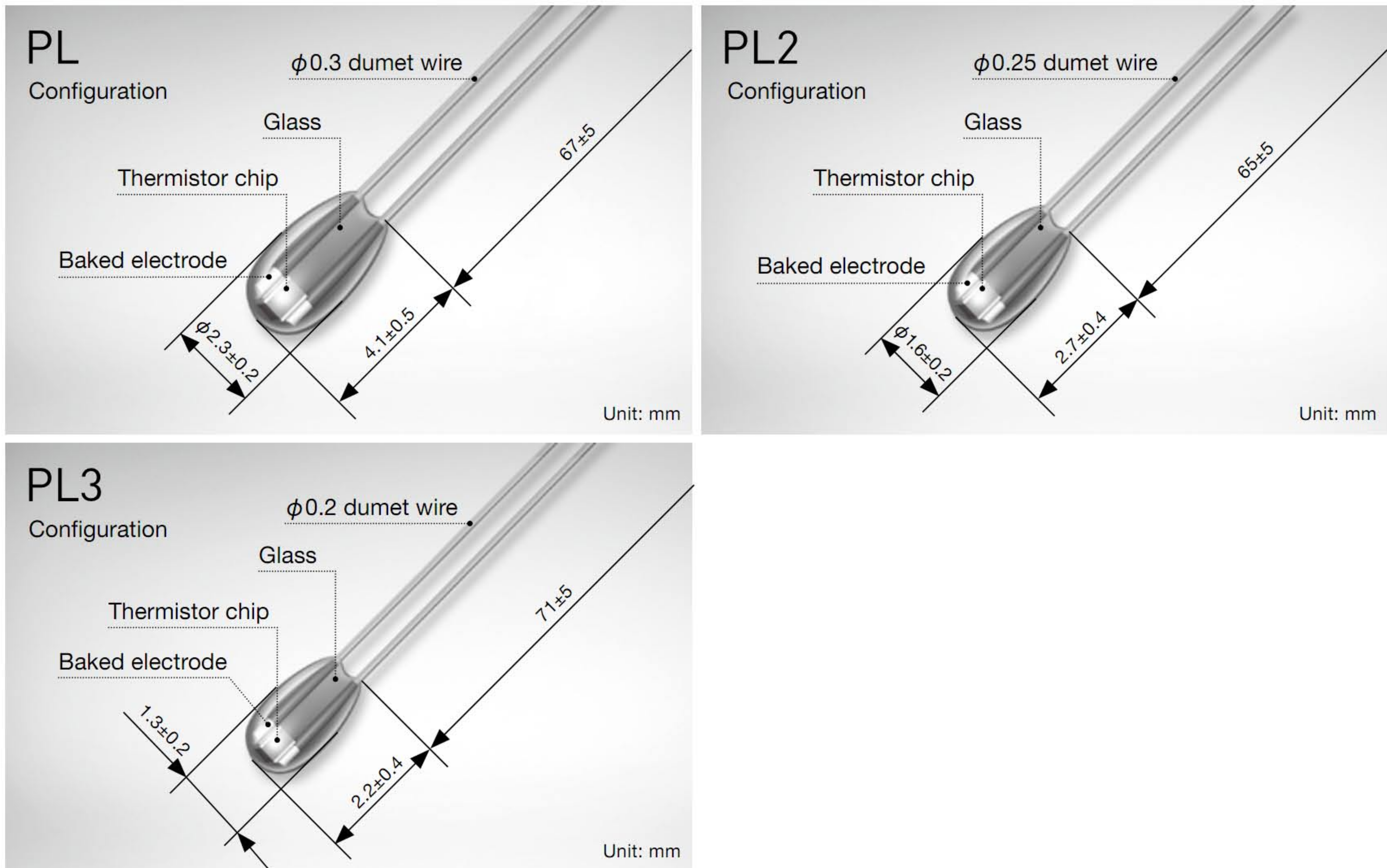


PL Series



High precision in a wide temperature range

A thermistor chip with low B constant is sealed in glass while keeping the features of PSB-S thermistors.

A PL thermistor can cover a wider temperature control range from -50 to $+300^{\circ}\text{C}$ which requires switching more than one conventional thermistor.

PL thermistors are available in three different sizes, PSB-S1, -S2 and -S3.

Features

- ◆ Low B constant ($B_{25/50} = 2240\text{K}$)
- ◆ Resistance spec. applicable in a wide temperature range
- ◆ Covers a wide temperature control range
- ◆ Solution to circuit cost reduction
- ◆ 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

- (Equipment requiring control from very low to high temperature ranges)
- Alternative solution for platinum resistance thermometers and thermocouples

Operating temperature

-50 to $+300^{\circ}\text{C}$

Thermal time constant

PL: Approx. 12 sec. PL2: Approx. 8 sec. PL3 : Approx. 5 sec.

Dissipation constant

PL: Approx. $1.3\text{mW}/^{\circ}\text{C}$ PL2: Approx. $0.9\text{mW}/^{\circ}\text{C}$ PL3: Approx. $0.75\text{mW}/^{\circ}\text{C}$

Insulation resistance

PL: Min. $50\text{M}\Omega$ at 500VDC PL2: Min. $10\text{M}\Omega$ at 50VDC PL3: Min. $10\text{M}\Omega$ at 50VDC