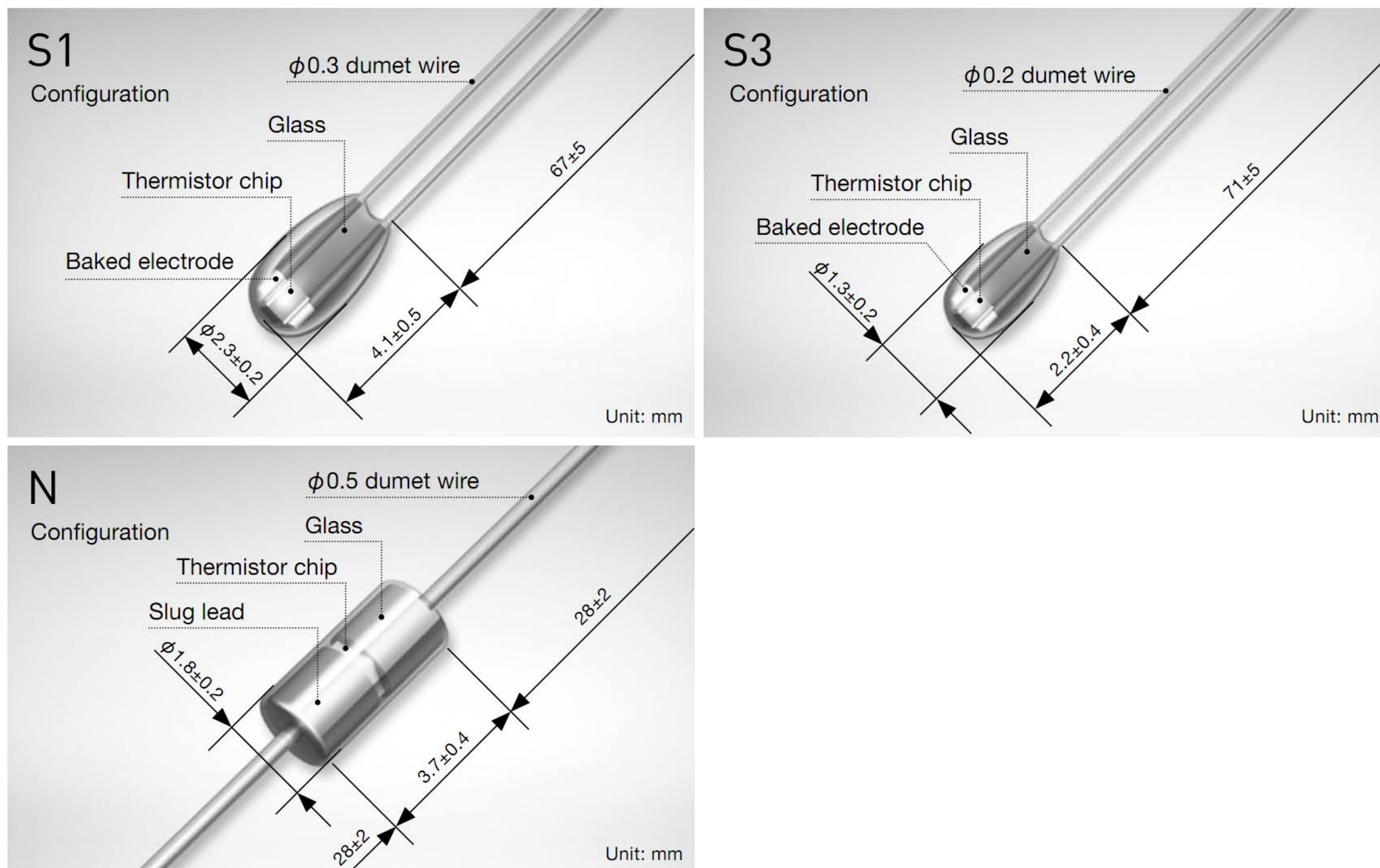


RB1 thermistors



High precision of $\pm 1\%$ tolerance in both resistance and B constant value

High precision both in resistance and B constant value has been achieved by reviewing the materials and manufacturing methods. While the maximum operating temperature is set lower than the standard PSB thermistors, the RB1 keeps the basic structure of glass thermistors. Thus, it is more advantageous than general resin thermistors in resistance to soldering and thermal history through processes.

Features

- ◆ Chip with silver-palladium electrodes
- ◆ Saving cost by setting the upper temperature limit to 120°C
- ◆ Resistance and B constant specially designed within the tolerance of $\pm 1\%$
- ◆ High-level heat resistance and environmental stability secured by glass encapsulation
- ◆ High-volume supply in high quality by integrated automatic production

Applications

For a variety of uses NOT under high temperatures

Operating temperature

-50 to $+120^\circ\text{C}$

Thermal time constant

S1: Approx. 12 sec.
S3: Approx. 5 sec.
N: Approx. 12 sec.

Dissipation constant

S1: Approx. $1.3\text{mW}/^\circ\text{C}$
S3: Approx. $0.75\text{mW}/^\circ\text{C}$
N: Approx. $2.3\text{mW}/^\circ\text{C}$

Insulation resistance

S1: Min. $50\text{M}\Omega$ at 500VDC
S3: Min. $10\text{M}\Omega$ at 50VDC
N: Min. $100\text{M}\Omega$ at 500VDC

Reliability data

