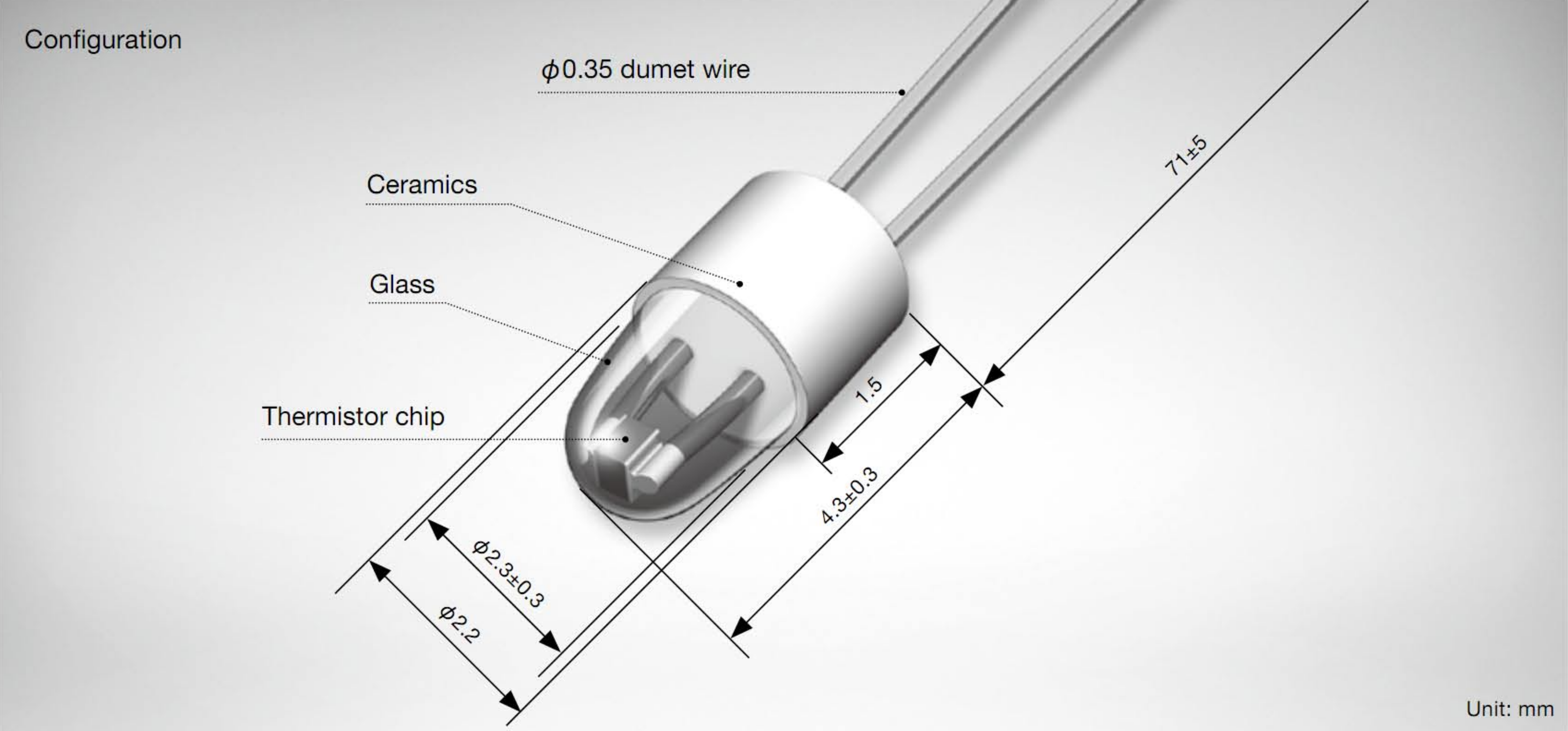


NS III-U1 thermistor



Heat resistance of 500°C achieved

The world’s first thermistor operating at 500°C has been achieved by full review of thermistor chip manufacturing methods and all material compositions. The NS III-U1 has proven results for over 20 years in measuring engine exhaust gases and for heaters.

- Features
- Composed of special materials for use under high temperatures
 - Heat resistance of 500°C
 - Reinforced glass end with high strength ceramics
 - Reduced damage to the glass during stress-giving processing
 - Improved reliability against oxide scale secured with enough creepage distance between the lead wires
 - Long-term stability in resistance
 - High-volume supply in high quality by integrated automatic production

- Applications
- Suitable for equipment for high temperature detection
- Exhaust gases from automobiles (EGR systems)
 - Microwave ovens
 - Fan heaters (kerosene vaporizers)
 - Sensors for use under harsh conditions at high temperatures

- Max. operating temperature
- 500°C
- Thermal time constant
- Approx. 18 sec.
- Dissipation constant
- Approx. 1.5mW/°C
- Insulation resistance
- Min. 100MΩ at 500VDC

