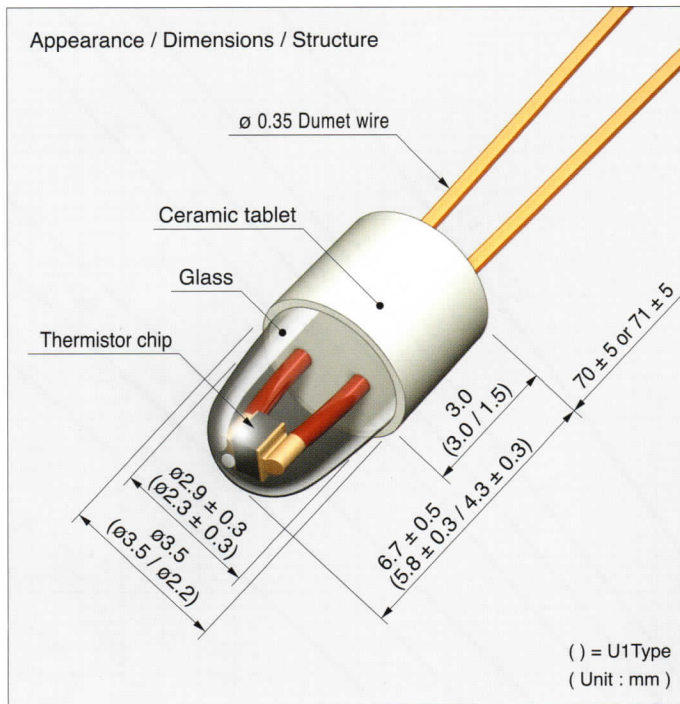


NS III THERMISTOR

Heat resistance of 500°C achieved

The NSIII is a thermistor that has been given a significantly wider operating temperature range due to a heat resistant thermistor chip that is sealed in heat resistant glass and by being combined with a ceramic tablet.



Features

- The NSIII is suitable for use under harsh conditions at high temperatures due to the adoption of a heat resistant thermistor chip and glass.
- There is superior moisture-resistance and mechanical strength in the thermistor lead wire outlet from the combination of the thermistor glass and ceramic tablet.

Applications

The NSIII is suitable for the following equipment that detects high temperatures

- Temperature sensors used in high temperature and harsh environmental conditions, such as for kerosene vaporizers in warm air heaters, automotive exhaust, convection microwave ovens, as well as gas ranges.

Rated Values

	U0	U1
Highest operating temperature :	500°C	500°C
Thermal time constant τ :	Approx. 20 sec	Approx. 18 sec
Dissipation constant δ :	Approx. 2.0mW/°C	Approx. 1.5mW/°C
Insulation resistance :	Min. 100M Ω (500V d.c.)	Min. 100M Ω (500V d.c.)

Product name	Nominal resistance value <small>note (1)</small>	B constant
U0-312 U1-312	1 k Ω (200°C)	4537k \pm 3% (100 ~ 200°C)
U0-342 U1-342	4 k Ω (200°C)	5133k \pm 3% (200 ~ 300°C)
U0-382 U1-382	8 k Ω (200°C)	5300k \pm 3% (150 ~ 250°C)

Note (1): Resistance value tolerance: \pm 2.5%, \pm 5%, \pm 10%