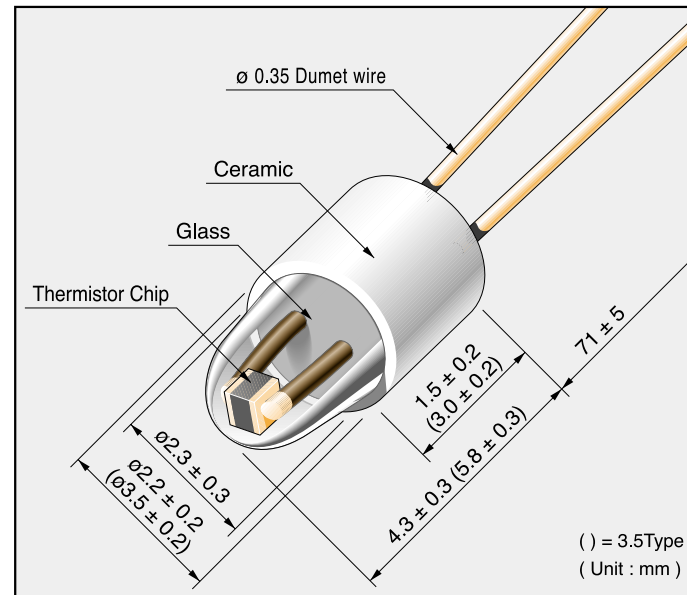


NS III THERMISTOR



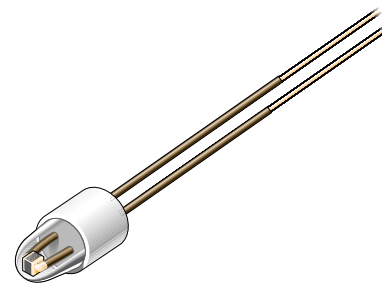
Features

- Accurate and stable thermistor chip at high temperature and heat resistant glass are combined, and it withstand up to 500°C.
- Because the creepage distance between lead wires is elongated with ceramic tablet, moisture-tightness and isolation are excellent.
- Chip type thermistor element is used. Chip-mounting, glass-sealing and all measuring processes are fully automated and which assures uniform in quality. It also enable to provide competitive price and high volume.
- Reinforced lead wires outlet with ceramic tube prevents bead glass from break or crack when forming for sensor or injecting resin.

Standard Specifications

Item	Type	Gold Electrode Type
Insulation resistance (between lead and glass)		Min. 100MΩ (500V d.c.)
Thermal time constant (in still air)		Approx. 18 sec.
Dissipation constant (in still air)		Approx. 1.5 mW/°C
Maximum operating temperature		+500°C (+932°F)

Options



Polyimide tube attachment for insulation.
(Max. temp. 250°C)

Electrical Characteristics for Standard NSIII Thermistors

Gold Electrode Type

Model	Nominal Zero-Power Resistance	B-value	R / T Curve
U1 - 312 - SD1	R 200 = 1.000 kΩ ± 1.0 %	B100 / 200 = 4537 K ± 3.0 %	F ※
U1 - 312 - SD2	R 200 = 1.000 kΩ ± 2.5 %		
U1 - 312 - SD3	R 200 = 1.000 kΩ ± 5.0 %		
U1 - 312 - SD4	R 100 = 13.06 kΩ ± 1.0 %		
U1 - 312 - SD5	R 100 = 13.06 kΩ ± 2.5 %		
U1 - 312 - SD6	R 100 = 13.06 kΩ ± 5.0 %		
U1 - 342 - SD1	R 200 = 4.000 kΩ ± 1.0 %	B200 / 300 = 5133 K ± 3.0 %	G ※
U1 - 342 - SD2	R 200 = 4.000 kΩ ± 2.5 %		
U1 - 342 - SD3	R 200 = 4.000 kΩ ± 5.0 %		
U1 - 342 - SD4	R 100 = 63.26 kΩ ± 1.0 %		
U1 - 342 - SD5	R 100 = 63.26 kΩ ± 2.5 %		
U1 - 342 - SD6	R 100 = 63.26 kΩ ± 5.0 %		
U1 - 382 - SD1	R 200 = 8.000 kΩ ± 1.0 %	B150 / 250 = 5300 K ± 3.0 %	H ※
U1 - 382 - SD2	R 200 = 8.000 kΩ ± 2.5 %		
U1 - 382 - SD3	R 200 = 8.000 kΩ ± 5.0 %		
U1 - 382 - SD4	R 250 = 2.705 kΩ ± 1.0 %		
U1 - 382 - SD5	R 250 = 2.705 kΩ ± 2.5 %		
U1 - 382 - SD6	R 250 = 2.705 kΩ ± 5.0 %		

※ Please contact Shibaura sales offices to receive information of resistance value at higher than 300°C.