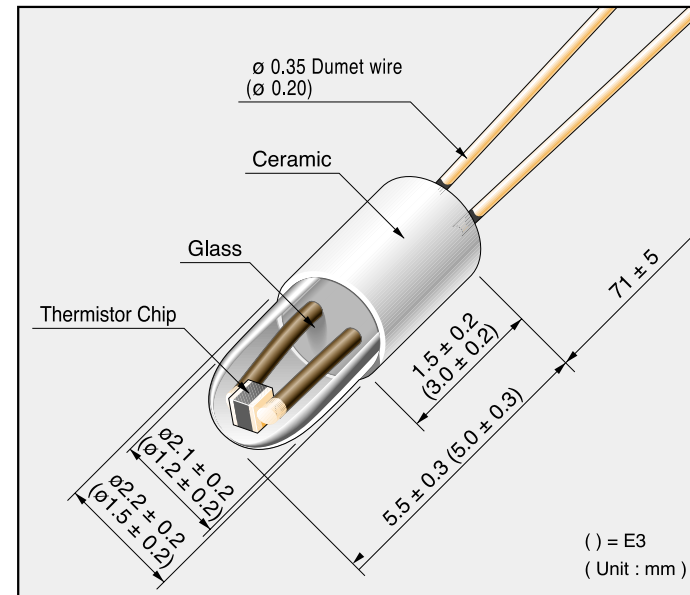


NS II THERMISTOR



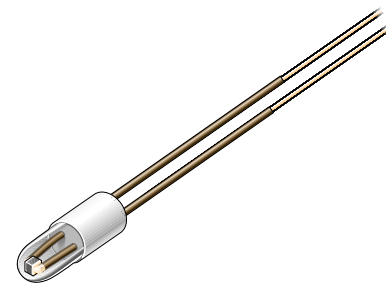
Features

- NSII can withstand for hard repetition of heat cycles, in circumstances of dust, oil vapor and various gasses. As reinforced at lead wire outlet with fine ceramic, stable quality can be maintained for long term, comparing with one reinforced by epoxy resin or silicone.
- 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	E 1	E 3
Insulation resistance (between lead and glass)		Min. 100MΩ (500V d.c.)	Min. 10MΩ (50V d.c.)
Thermal time constant (in still air)		Approx. 18 sec.	Approx. 10 sec.
Dissipation constant (in still air)		Approx. 1.5 mW/°C	Approx. 1.2 mW/°C
Maximum operating temperature		+300°C (+572°F)	+300°C (+572°F)

Options



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

Electrical Characteristics for Standard NSII Thermistors

Gold Electrode Type

Model	Nominal Zero-Power Resistance	B-value	R / T Curve
E1 - 36 - SD1	R 0 = 6.000 kΩ ± 1.0 %	B 0 / 100 = 3390 K ± 2.0 %	A
E1 - 36 - SD2	R 0 = 6.000 kΩ ± 2.5 %		
E1 - 36 - SD3	R 0 = 6.000 kΩ ± 5.0 %		
E1 - 36 - SD4	R 25 = 2.186 kΩ ± 1.0 %		
E1 - 36 - SD5	R 25 = 2.186 kΩ ± 2.5 %		
E1 - 36 - SD6	R 25 = 2.186 kΩ ± 5.0 %		
E1 - 43 - SD1	R 0 = 30.00 kΩ ± 1.0 %	B 0 / 100 = 3450 K ± 2.0 %	C
E1 - 43 - SD2	R 0 = 30.00 kΩ ± 2.5 %		
E1 - 43 - SD3	R 0 = 30.00 kΩ ± 5.0 %		
E1 - 43 - SD4	R 25 = 10.74 kΩ ± 1.0 %		
E1 - 43 - SD5	R 25 = 10.74 kΩ ± 2.5 %		
E1 - 43 - SD6	R 25 = 10.74 kΩ ± 5.0 %		
E1 - 51F - SD1	R 100 = 3.300 kΩ ± 1.0 %	B 0 / 100 = 3970 K ± 2.0 %	D
E1 - 51F - SD2	R 100 = 3.300 kΩ ± 2.5 %		
E1 - 51F - SD3	R 100 = 3.300 kΩ ± 5.0 %		
E1 - 51F - SD4	R 25 = 49.12 kΩ ± 1.0 %		
E1 - 51F - SD5	R 25 = 49.12 kΩ ± 2.5 %		
E1 - 51F - SD6	R 25 = 49.12 kΩ ± 5.0 %		