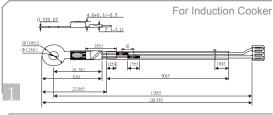


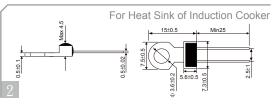
Screw-On

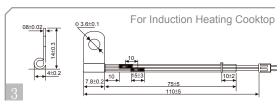
Feature: Screw-on design is for easy installation

Application: The sensor is installed on metallic surface for temperature detection, and the sensor is mostly installed in induction cooker, induction heating cooktop, and

heat sink of kitchen appliances.







Component | Sensing top (terminal+NTC chip+epoxy)+lead wire +tie+tube+terminal+housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -20~+150°C Insulation Test | DC 500V 100MΩ (Min)

R Value | R100 $^{\circ}$ C=3.3K Ω ±3% **B Value** | B0/100=3970K±2%

Thermal Time Constant | Around 6 seconds (heating board)

Hi-Pot Test | AC 1500V 10mA (Max)

Component | Sensing top (terminal+NTC chip+epoxy)+lead wire

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -20~+125°C Insulation Test | DC 500V 100MΩ (Min)

R Value | R25°C=10KΩ±2% **B Value** | B0/100=3435K±2%

Thermal Time Constant | Around 15 seconds (heating board)

Hi-Pot Test | AC 1000V 10mA (Max)

Component | Sensing top (terminal+NTC chip)+lead wire+tube+tie +terminal+housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -5~+150°C Insulation Test | DC 500V 100MΩ (Min) R Value | R100°C=3.3ΚΩ±3% B

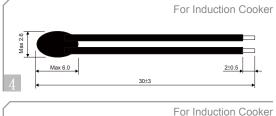
B Value | B0/100=3970K±2%

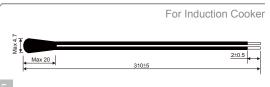
Thermal Time Constant | Around 6 seconds (heating board)

Hi-Pot Test | AC 3000V 0.5mA (Max)



Feature: Structure of the sensor is simple, and it dirtectly detects temperature in air. Application: The sensor is mostly used for temperature detection of ambient environment or exhaust air.





Component | Sensing top(NTC chip+epoxy)+lead wire Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -40~+125°C Insulation Test | DC 500V 100MΩ(Min)

R Value | R25°C=10KΩ±1% **B Value** | B25/85=3435K±1%

Thermal Time Constant | Around 3 seconds (in water)

Hi-Pot Test | AC 1000V 10mA(Max)

Component | Sensing top (NTC chip+ epoxy)+lead wire Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -30~+150°C Insulation Test | DC 500V 100MΩ(Min)

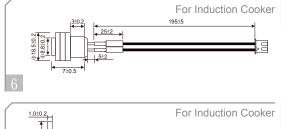
B Value | B25/50=3470K±1% **R Value** | R25 $^{\circ}$ C=5K Ω ±1%

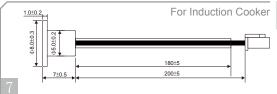
Thermal Time Constant | Around 5 seconds (in water)

Hi-Pot Test | AC 1000V 10mA(Max)

Metal Case Type

Feature: The sensor fits heating board or directly contacts food to for temperature detection. **Application:** The sensor is mostly installed in heating board for direct temperature detection. or installed in oven for multiple point temperature detection.





Component | Sensing top (NTC chip+aluminum cap)+connector +lead wire+terminal+housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | $0\sim+250\,^{\circ}\text{C}$ Insulation Test | DC 500V 100M Ω (Min) R Value | R100 $^{\circ}\text{C}$ =3.3 K Ω ± 2.5% B **B Value** | B0/100=3970K±2% **Thermal Time Constant** | Around 2 seconds (heating board)

Hi-Pot Test | AC 1500V 10mA(Max)

Component | Sensing top (NTC chip+ceramic cap)+tube+lead wire

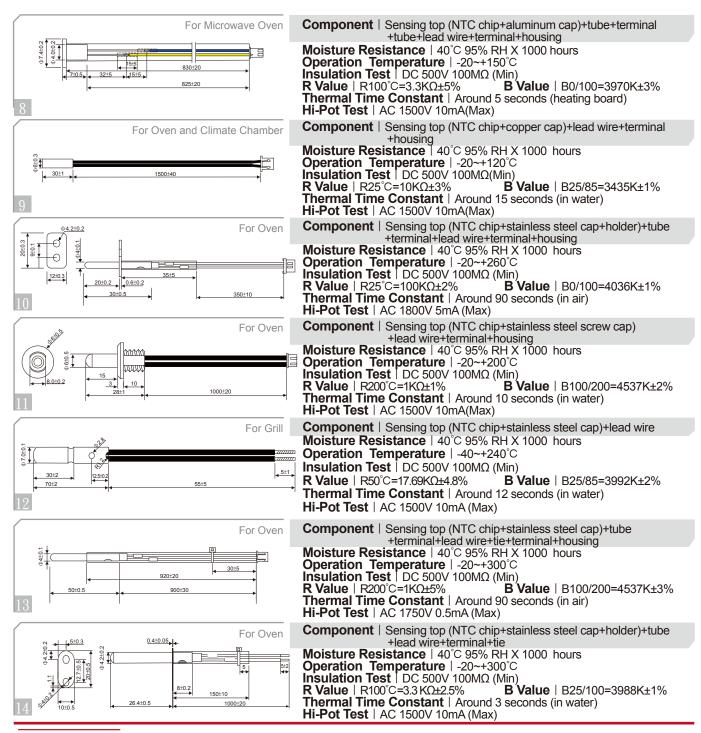
+terminal+housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -40~+150°C Insulation Test | DC 500V 100MΩ (Min)

B Value | B25/85=4085K±1% **R Value** | R25°C=100K Ω ±1% Thermal Time Constant | Around 5 seconds (heating board)

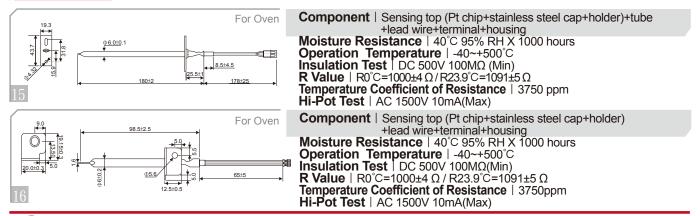
Hi-Pot Test | AC 1500V 10mA(Max)



Platinum Sensor (Pt sensor)

Feature: Pt sensor is similar to PTC thermistor, but is more precise and stable.

Application: The sensor is mostly installed in commercial oven or Eco-clean oven.

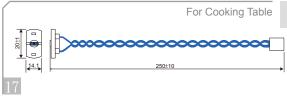




Glass Coating

Feature: Glass coated chip is installed on silicon seat or covered by heat shrink tube for direct temperature detection. The sensor responds fast and is installed easily.

Application: The sensor is mostly used in dryer environment, inclduing cooking table, induction cooker, etc.



200±10

For Induction Cooker

Component | Sensing top (NTC chip+silicon seat)+lead wire+terminal +housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | 0~+250°C

Insulation Test | DC 500V 100M Ω (Min) R Value | R185°C= 1.2 K Ω ±5% B **B** Value | B100/200= 4015K±3% Thermal Time Constant | Around 4 seconds (heating board)

Hi-Pot Test | AC 1500V 10mA (Max)

Component | Sensing top (NTC chip+terminal+tube)+lead wire+tube

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -10~+200°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R200°C=0.55KΩ±2.5% **B Value** | B100/200=4300K±3%

Thermal Time Constant | Around 15 seconds (in air)

Hi-Pot Test | AC 1500V 10mA (Max)



Structures

Feature: Plastic case type offers better water insulation, and is applied in moisture environment, but its environment temperature is not high. In addition, multiple-sensor-structure offers better PCB layout, and structure or electrical characteristics is customizable in accordance with requirement of temperature detection.

Application: The sensor is generally applied in climate chamber, low-temperature oven, etc.

For Climate Chamber For Oven and Climate Chamber 1500±40

Component | Sensing top (NTC chip+plastic cap)+lead wire+terminal

+housing

Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -20~+105°C Insulation Test | DC 500V 100MΩ (Min)

B Value | B25/85=3435K±2%

R Value | R25°C=10KΩ±3% B Value | B25/85=: Thermal Time Constant | Around 20 seconds (in water)

Hi-Pot Test | AC 1500V 10mA (Max)

Component | Sensing top(NTC chip+plastic cap/NTC chip+copper cap) +lead wire+terminal+housing

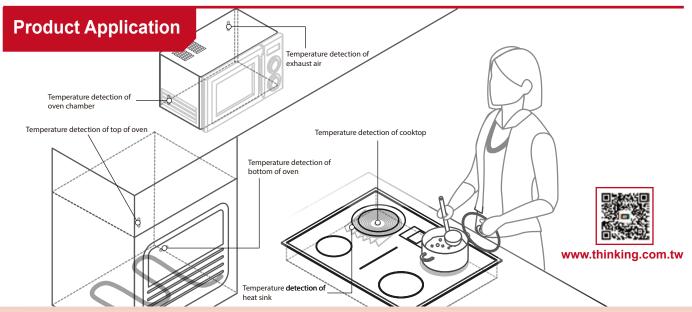
Moisture Resistance | 40°C 95% RH X 1000 hours

Operation Temperature | -20~+105°C

Insulation Test | DC 500V 100MΩ (Min)

R Value | R25°C=10K Ω ± 3% B Value | B25/85=343 Thermal Time Constant | Around 15-20 seconds (in water) **B Value** | B25/85=3435K±2%

Hi-Pot Test | AC 1500V 10mA



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