

NTC Thermistor With Thermal Wire 100K/100 Ohms, MK2a 1%



Description:

- A thermistor is a type of resistor whose resistance varies significantly with temperature, more so than in standard resistors. Thermistor is used as temperature sensing element for 3D Printer Extruder and Heat beds
- In most RepRaps, a thermistor senses the temperature of the Hot End. Often a second thermistor senses the temperature of the Heated Bed.
- Thermistors are resistors that change of resistance with a change in temperature. Good qualities of thermistors are a predictable, accurately known resistance value at every temperature in its operating range. The lowering, or rise, depends on the type of thermistor per degree Kelvin (or Celsius, if you prefer), this is called its coefficient. Positive thermal coefficient (PTC) will increase in resistance with an increase in temperature, negative ones (NTC) will decrease. But the formula in practice is not linear, so sometimes an accurate table of measurements is better than the linear formula. These measurements can usually be found in the datasheet that accompanies the thermistor.

Specifications:

- Resistance Value: $R(25^{\circ}\text{C}) = 100\text{K} \pm 1\%$
- B value: $3950 \pm 1\%$
- Accuracy: $\pm 1\%$
- Glass Packaging: $2.0 \pm 0.2\text{mm}$
- Lead Length: $32 \pm 5\text{mm}$
- Operating Temperature Range: -50 to $+260^{\circ}\text{C}$
- Thermal Time Constant (τ): $\tau = 10 - 17 \text{ s}$ (in still air)
- Thermal Dissipation Constant (δ): $\delta = 1.1 - 1.6 \text{ mW} / ^{\circ}\text{C}$
- Insulation Resistance $50\text{M}\Omega$ or over by DC500V merge (between glass and lead wire).
- 1 meter long white line Teflon wire outer diameter 1.1MM, 200 degrees / 300V, thermistor head diameter 1.8MM.

Made in China