

# Stable 5K 10K 100KF3950 High-Precision Thermistor Sensor Dehumidifier **Special Thermistor**

# **Basic Information**

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- · Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:



Export Package / Negotiation

24 million per year

- Negotiation
- T/T, L/C, Western Union



### **Product Specification**

- Features:
- Application:
- Keywords:
- Working Temperature Range(°C):
- Resistance Value:
- Highlight:

High Precision And High Stability
Medical Machine
Temperature Sensor

-10 To +105c

- 5K,10K,20K,50K,100K
- Dissipation Factor(mw/°C): 1-2 (in Still Air)

Stable Medical Temperature Sensor, 10K Medical Temperature Sensor, **Practical Temperature Probe Medical** 



## More Images



### **Product Description**

Stable 5K 10K 100KF3950 high-precision thermistor sensor special thermistor for dehumidifier and air-conditioning temper



**Our Product Introduction** 



Product drawings are for reference; can be customized according to required parameters, specifications, and length. (Come with pictures and samples)

NTC temperature sensors are usually composed of 2 or 3 metal oxides, mixed in a fluid-like clay, and calcined into a dense sintered ceramic in a high-temperature furnace. Oxygen-bonded metals tend to donate free electrons. Ceramics are generally excellent insulators. But only theoretically, this is the case for thermistor-type ceramics when the temperature approaches absolute zero. However, as the temperature increases to more common ranges, thermal excitations eject more and more free electrons. As more electrons carry current through the ceramic, the effective resistance decreases. Resistance changes very sensitively with temperature. A typical change is a decrease of (-)7[%] to 3[%] per degree Celsius. This is the most sensitive of any sensor suitable for use over a wide temperature range.

The rated room temperature resistance depends on the resistivity of the base material, the size and geometry, and the contact area of the electrodes. Thick and narrow thermistors have relatively high resistance, while thin and wide shapes have lower resistance. Actual size is also very flexible, they can be as small as .010 inches or very small diameter. There is almost no limit to the maximum size, but usually under half an inch applies.

Туре	NTC(thermistor) Temperature Sensor						
Temperatu	-50°C ~ +300°C Customized						
re range							
Accurancy	1% 5% 10%						
RT(25°C)	1K 2K 2.2k 2.7k 3K 5K 7K 8K 12K 15K 20K 25K 30K 40K 47K 50K 60K 70K						
	100K 200K 230K 250K 470K 500K 1000K Customized						
B value	3274 3435 3470 3928 3950 3977 4100 4200 4400 Customized						
Probe	Staiplass stool SS204, aluminum connor plastic apovu glass						
Material							
Installation	Flanged Surface Threaded Plastic Straight Film Customized						
Wire	Heat shrinkable tube PVC tube class fiber tube, tube						
Material							
Connector	Molex JST DuPont CWB CJT U type Customized						
Waterproof	IP67 IP68						

#### Material, type and size:

Thermistors are bulk semiconductor devices and as such can be manufactured in a variety of forms. More common ones include discs, beads and rods. Sizes do vary from 1mm beads to discs a few centimeters in diameter and thickness. There are different types of thermistors, most of which respond differently to changes in temperature. Thermistors are not linear and their response curves vary from type to type. Some thermistors have a nearly linear temperature-resistance relationship, others have a sharp change in slope (sensitivity) at a specific characteristic temperature.

#### Main Technology Parameters

Part number	Rated resistance R25		B value (25/50)		Dissipattion Coeffient.	Thermal time constant	Operating temperature
	Range KOhm	Toleranc e %	(K)	Tolerance %	Mw/°C	sec	°C
CWF0003100	0.1~20		3100				
CWF0003270	0.2~20		3270	1			
CWF0003380	0.5~50		3380	1			
CWF0003470	0.5~50		3470	1			
CWF0003600	1~100	±1	3600	1			
CWF0003950	5~100	±2	3950	±1	≥2.2	≤70	-55~+125
CWF0004000	5~100	±3	4000	]			
	· · · · · · · · · · · · · · · · · · ·	±5		1			

CWF0004050	5~200	4050	
CWF0004150	10~250	4150	
CWF0004300	20~1000	4300	
CWF0004500	20~1000	4500	

#### NCT temperature sensor application range

• Heating and heating air conditioners and related equipment

Household appliances of various sizes: air conditioners, refrigerators, battery stoves, bread ovens, baking ovens, electric ovens, microwave ovens, electric fans, soybean milk machines, electric water heaters, electric rice cookers, disinfection cabinets, water dispensers, heaters, electric irons, disinfection Cabinets, drinking fountains, lighting appliances, etc.
 Temperature measurement and control circuits for agricultural, medical, environmental protection, meteorological, food

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• Instrument coils, automotive circuits, integrated circuit modules, transistor amplifier circuits, temperature compensation circuits such as quartz crystal oscillators and thermocouples



#### Working principle of temperature sensor

Using the NTC thermistor under a certain measurement power, the resistance value drops rapidly as the temperature rises. Utilizing this feature, the NTC thermistor can be used to determine the corresponding temperature by measuring its resistance value, so as to achieve the purpose of detecting and controlling the temperature.





#### Conventional product electrical performance parameters

	R25°C	B(K)	Rated Power	Dissipation Factor(δ)	Thermal time
Part No.	(ΚΩ)	25/50°C	@25°C(mW)	(mW/°C)	Constant (S)
TS502D3274A	5.0	3274	10-20	2-4	5-20
TS502D3435B	5.0	3435	10-20	2-4	5-20
TS50203470A	5.0	3470	10-20	2-4	5-20
TS502 3950A	5.0	3950	10-20	2-4	5-20
TS103 3274A	10.0	3274	10-20	2-4	5-20
TS103 3435B	10.0	3435	10-20	2-4	5-20
TS103 3470A	10.0	3470	10-20	2-4	5-20
TS103 3950A	10.0	3950	10-20	2-4	5-20
TS10304100A	10.0	4100	10-20	2-4	5-20
TS153 3950A	15.0	3950	10-20	2-4	5-20
TS15304100A	15.0	4100	10-20	2-4	5-20
TS203 3950A	20.0	3950	10-20	2-4	5-20
TS20304100A	20.0	4100	10-20	2-4	5-20
TS22304200A	22.0	4200	10-20	2-4	5-20
TS403 3928A	40.0	3928	10-20	2-4	5-20
TS503 3950A	50.0	3950	10-20	2-4	5-20
TS50304100A	50.0	4100	10-20	2-4	5-20
TS104 3950A	100.0	3950	10-20	2-4	5-20
TS10404100A	100.0	4100	10-20	2-4	5-20
TS104□4400A	100.0	4400	10-20	2-4	5-20



Application

