



## 104F4250FB NTC Surface Mount Thermistor 1%-5% Chip 4250 3950

Our Product Introduction

for more products please visit us on lk-thermistor.com

### Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: LINKUN
- Certification: UL, ROHS, REACH
- Model Number: 0603 1608 104F4250 3950
- Minimum Order Quantity: 4000 Pieces
- Price: Negotiation
- Packaging Details: Tape, 4000pcs/disk
- Delivery Time: 10 workdays
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 1000,000,000 Pieces Per Month



### Product Specification

- Accuracy:  $\pm 1\% \sim \pm 5\%$
- Thermal Time Constant:  $< 5S$
- Nominal Zero-Power Resistance: 4.7K $\Omega$ -150K $\Omega$
- Size: 0402-1206
- Permissible Operating Current ( 25°C): 0.31mA
- Time Constant:  $\leq 30S$
- Product: SMD NTC Thermistor
- Dissipation Factor:  $\leq 1.0mW/^{\circ}C$
- Highlight: NTC surface mount thermistor, 3950 NTC surface mount thermistor, 4250 NTC thermistor



### More Images



## Product Description



Introduction of 0603 series NTC chip thermistor:

NTC thermistor is a kind of ceramic semiconductor thermosensitive crystal sintered from manganese, cobalt and nickel as raw materials. It is extremely sensitive to temperature changes. As the temperature increases, the resistance value decreases exponentially, and the temperature coefficient is as high as (3~6%/°C), and a small temperature change will cause a large change in the resistance value. According to the R-T resistance temperature curve of the thermistor, the precise resistance value of each temperature point can be measured and calculated. In the circuit, the digital correspondence of the temperature can be realized through the resistance value, which is used for temperature measurement and control.

0603 series NTC chip thermistor features:

- 1) Small size, no leads, excellent soldering performance, suitable for high-density surface mount;
- 2) The surface of the ceramic body is encapsulated by glass, which has good moisture resistance, high reliability and stability;
- 3) Wide working temperature range: -40°C~+125°C;
- 4) High precision resistance value and B value constant;
- 5) Comply with RoHS environmental protection standard

0603 series NTC chip thermistor application range:

Temperature measurement: electronic thermometer, electronic perpetual calendar, electronic clock temperature display, electronic gifts, etc.;  
 Temperature control: temperature sensing of rechargeable batteries in mobile phones, car phones, laptops, smart wearable devices, etc.;  
 Temperature Compensation: Temperature compensation of transistors, ICs and crystal oscillators in mobile communication devices.

## 1 Shape and Dimensions

- Dimensions: See Fig.1 and Table 1.
- Recommended PCB pattern for reflow soldering: See Fig.2 and Table 1

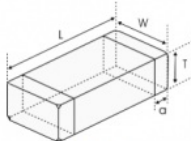


图1 Fig.1

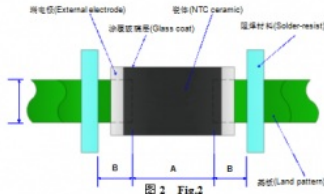


图2 Fig.2

Table 1

unit: inch(mm)

Type	L	W	T	a	A	B	C
0603 [1608]	0.063±0.006 [1.6±0.15]	0.031±0.006 [0.8±0.15]	0.031±0.006 [0.8±0.15]	0.012±0.008 [0.3±0.2]	[0.6-0.8]	[0.6-0.7]	[0.6-0.8]

## 2 Product Identification(Part Number)

QN   0603   X   103   F   3950   F   B  
 ①   ②   ③   ④   ⑤   ⑥   ⑦   ⑧

① Type		④ Nominal Zero-Power Resistance at 25℃		⑥ B Constant	
QN	Chip NTC Thermistor	222	2.2kΩ	3435	3435K
		103	10kΩ	3950	3950K
		474	470kΩ	4250	4250K
② (mm) External Dimensions (L×W×T)		⑤ Tolerance of Resistance		⑦ Tolerance of B Constant	
0201[0603]	0.60×0.30×0.30	F	±1%	F	±1%
0402[1005]	1.00×0.50×0.50	G	±2%	H	±3%
0603[1608]	1.60×0.80×0.80	H	±3%	⑧ B constant calculation method	
0805[2012]	2.00×1.25×0.85	J	±5%		
1206[3216]	3.20×1.60×0.85			A	25℃&85℃
③ Delimiter				B	25℃&50℃
	X				

## 3 Electrical Characteristics

## 1) F Series

Part No	Resistance (25℃) (kΩ)	B Constant (25/50℃) (K)	B Constant (25/85℃) (K)	Permissible Operating Current (25℃) (mA)	Dissipation Factor (mW/℃)	Thermal Time Constant (s)	Rated Electric Power(25℃) (mW)	Operating ambient temperature (℃)
QN0603X103F3435FA	10±1%	3380±1%	3435±1%	0.31	1.0	<5	100	-40~+125
QN0603X103F3450FB	10±1%	3450±1%	3500	0.31				
QN0603X103F3950FB	10±1%	3950±1%	3987	0.31				
QN0603X223F3950FB	22±1%	3950±1%	3987	0.21				
QN0603X333F4050FB	33±1%	4050±1%	4100	0.17				
QN0603X473F4050FB	47±1%	4050±1%	4100	0.14				
QN0603X683F4150FB	68±1%	4150±1%	4210	0.12				
QN0603X104F3950FB	100±1%	3950±1%	3987	0.10				
QN0603X104F4250FB	100±1%	4250±1%	4310	0.10				

## 2) H Series

Part No	Resistance (25℃) (kΩ)	B Constant (25/50℃) (K)	B Constant (25/85℃) (K)	Permissible Operating Current (25℃) (mA)	Dissipation Factor (mW/℃)	Thermal Time Constant (s)	Rated Electric Power(25℃) (mW)	Operating ambient temperature (℃)
QN0603X103H3435FA	10±3%	3380±1%	3435±1%	0.31	1.0	<5	100	-40~+125
QN0603X103H3450FB	10±3%	3450±1%	3500	0.31				
QN0603X103H3950FB	10±3%	3950±1%	3987	0.31				
QN0603X223H3950FB	22±3%	3950±1%	3987	0.21				
QN0603X333H4050FB	33±3%	4050±1%	4100	0.17				
QN0603X473H4050FB	47±3%	4050±1%	4100	0.14				
QN0603X683H4150FB	68±3%	4150±1%	4210	0.12				
QN0603X104H3950FB	100±3%	3950±1%	3987	0.10				
QN0603X104H4250FB	100±3%	4250±1%	4310	0.10				

## Specifications for Chip NTC thermistor

4/10

## 3) J Series

Part No	Resistance (25℃) (kΩ)	B Constant (25/50℃) (K)	B Constant (25/85℃) (K)	Permissible Operating Current (25℃) (mA)	Dissipation Factor (mW/℃)	Thermal Time Constant (s)	Rated Electric Power(25℃) (mW)	Operating ambient temperature (℃)
QN0603X103J3435FA	10±5%	3380±1%	3435±1%	0.31	1.0	<5	100	-40~+125
QN0603X103J3450FB	10±5%	3450±1%	3500	0.31				
QN0603X103J3950FB	10±5%	3950±1%	3987	0.31				
QN0603X223J3950FB	22±5%	3950±1%	3987	0.21				
QN0603X333J4050FB	33±5%	4050±1%	4100	0.17				
QN0603X473J4050FB	47±5%	4050±1%	4100	0.14				
QN0603X683J4150FB	68±5%	4150±1%	4210	0.12				
QN0603X104J3950FB	100±5%	3950±1%	3987	0.10				
QN0603X104J4250FB	100±5%	4250±1%	4310	0.10				

## 4 Test and Measurement Procedures

### Test Conditions

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

- Ambient Temperature: 20±1.5℃
- Relative Humidity: 65±20%
- Air Pressure: 86kPa to 106kPa

If any doubt on the results, measurements/tests should be made within the following limits:

- Ambient Temperature: 25±2℃
- Relative Humidity: 65±5%
- Air Pressure: 86kPa to 106kPa

### Inspection Equipment

Visual Examination: 20× magnifier

Resistance value test: Thermistor resistance tester

## Product Description:

We specialize in SMD NTC Thermistor Wholesale Sales and production, providing high-precision chip NTC thermistor with wide temperature range. Our products have an operating temperature range of -40℃~+125℃, permissible operating current of 0.31mA at

25°C, thermal time constant of less than 5S, storage temperature range of -40°C~+125°C, and time constant of less than or equal to 30S. We are committed to providing our customers with quality products at competitive prices. With our years of experience in the industry, we are confident in our ability to meet your needs. Contact us today to learn more about our SMD NTC thermistor and how we can help you.

Technical Parameters:

Product	SMD NTC Thermistor
Size	0402-1206
Rated Electric Power(25°C)	100(mW)
Thermal Time Constant	<5S
Constant (25/50°C) (K)	3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500
Permissible Operating Current (25°C)	0.31mA
Storage Temperature Range	-40°C~+125°C
Dissipation Factor	<=1.0mW/°C
Accuracy	±1%~±5%
Operating Temperature Range	-40°C~+125°C

Applications:

LINKUN SMD NTC Thermistor is high precision chip NTC thermistor, with model numbers 1608X103F3450FB. The size comes in three types, 0402 (1005), 0805 (2012) and 1206 (3216). It is certified by UL, ROHS, and REACH and the minimum order quantity is 4000 pieces. The price is TBA and it is packaged in tape, 4000pcs/disk. Delivery time is usually 10 workdays and payment terms are T/T, Western Union, or MoneyGram. This thermistor has a thermal time constant of less than 5 seconds, an operating temperature range of -40°C to +125°C, and a dissipation factor of less than or equal to 1.0mW/°C. The nominal zero-power resistance is between 4.7KΩ to 150KΩ. This product is supplied with a capacity of 1000,000,000 pieces per month.

LINKUN SMD NTC Thermistor is widely used in many applications, such as temperature sensors, temperature compensation, temperature measurement, temperature control, temperature monitoring, and temperature protection. This thermistor is ideal for use in industrial, automotive, medical, consumer, and other electronic applications. It is also used in power supply systems, temperature monitoring circuits, and over-temperature protection circuits. The reliable performance and high precision of LINKUN SMD NTC Thermistor makes it a popular choice for many applications.

Customization:

SMD NTC Thermistor from LINKUN  
Brand Name: LINKUN  
Model Number: 1608X103F3450FB  
Place of Origin: Dongguan,Guangdong,China  
Certification: UL, ROHS, REACH  
Minimum Order Quantity: 4000 Pieces  
Price: TBA  
Packaging Details: Tape, 4000pcs/disk  
Delivery Time: 10 workdays  
Payment Terms: T/T, Western Union, MoneyGram  
Supply Ability: 1000,000,000 Pieces Per Month  
Size: 0402(1005), 1206(3216)  
Rated Electric Power(25°C): 100(mW)  
Product: SMD NTC Thermistor  
Storage Temperature Range: -40°C~+125°C  
Constant (25/50°C) (K): 3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500  
LINKUN provides excellent SMD NTC Thermistor with UL, ROHS, REACH certification. We have both 0402(1005) and 1206(3216) sizes for your choice. Our thermistors have rated electric power of 100mW at 25°C temperature. The storage temperature range is from -40°C~+125°C, and the constant(25/50°C) (K) is 3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500. And the minimum order quantity is 4000 pieces. Welcome to contact us for more details about price, delivery time, payment terms, etc.

Support and Services:

SMD NTC Thermistor Technical Support & Service  
We provide technical support and service for our SMD NTC Thermistor products, including:  
Free technical advice on selection and use of our products  
Assistance with troubleshooting of products

Replacement of faulty products

Product updates and upgrades

If you have any questions regarding our products or need assistance, please contact our customer service team.

### **Packing and Shipping:**

#### **SMD NTC Thermistor Packaging and Shipping**

The SMD NTC Thermistor will be packaged in antistatic bags and foam trays to prevent any damage during shipping.

The thermistor will be shipped in appropriate boxes and packages to ensure that it arrives in perfect condition.

All packages will be clearly marked with the product name, address, and other relevant information.

### **FAQ:**

Q: What is SMD NTC Thermistor?

A: SMD NTC thermistor is a type of temperature sensitive resistor. It is usually used to measure temperature in electronic products.

Q: What is the brand name?

A: The brand name is LINKUN.

Q: What is the model number?

A: The model number is 1608X103F3450FB.

Q: Where is the place of origin?

A: The place of origin is Dongguan, Guangdong, China.

Q: What is the certification?

A: The certification is UL, ROHS, and REACH.

Q: What is the minimum order quantity?

A: The minimum order quantity is 4000 pieces.

Q: What is the price?

A: The price is TBA.

Q: What is the packaging details?

A: The packaging details is tape, 4000pcs/disk.

Q: How long is the delivery time?

A: The delivery time is 10 workdays.

Q: What are the payment terms?

A: The payment terms are T/T, Western Union, and MoneyGram.

Q: What is the supply ability?

A: The supply ability is 1000,000,000 pieces per month.



**Dongguan Linkun Electronic Technology Co., Ltd.**



13423305709



huangju@lk-ptc.com



lk-thermistor.com

Room 101, No. 21, Huayuanzai Road, Chongmei, Chashan Town, Dongguan City, Guangdong Province