



22K Ohm SMD NTC Thermistor 223F3950FB 1%-5% Chip NTC Thermistor Surface Mount

Our Product Introduction

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Basic Information

- Place of Origin: Dongguan,Guangdong,China
- Brand Name: LINKUN
- Certification: UL,ROHS,REACH
- Model Number: 0805 2012 X223F3950FB
- 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

- Size: 0402-1206
- Storage Temperature Range: -40°C~+125°C
- Time Constant: <=30S
- Accuracy: ±1%~±5%
- Product: SMD NTC Thermistor
- Operating Temperature Range: -40°C~+125°C
- Rated Electric Power(25°C : 100 mW)
- Thermal Time Constant: <5S
- Highlight: NTC 5% chip Thermistor, 22K ohm SMD NTC Thermistor



More Images



Product Description



Specifications for Chip NTC thermistor

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Shape and Dimensions

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

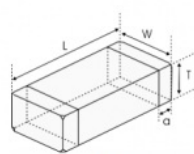


Fig.1

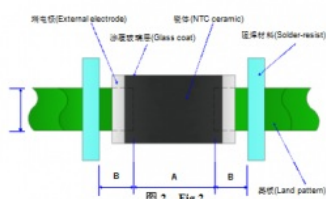


图 2 Fig.2

(Table 1)

unit: inch[mm]

Type	L	W	T	a	A	B	C
0805 [2012]	0.079±0.008 [2.0±0.2]	0.049±0.008 [1.25±0.2]	0.033±0.008 [0.85±0.2]	0.020±0.012 [0.5±0.3]	[1.0-1.1]	[0.6-0.7]	[1.0-1.2]

2 Product Identification(Part Number)

QN 0805 X 104 F 4250 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
		473	47kΩ	3950	3950K
		104	100kΩ	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				

Specifications for Chip NTC thermistor

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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 (℃)
QN0805X103F3435FA	10±1%	3380±1%	3435±1%	0.44	2.0	<5	100	-40~+125
QN0805X103F3450FB	10±1%	3450±1%	3500	0.44				
QN0805X103F3950FB	10±1%	3950±1%	3987	0.44				
QN0805X223F3950FB	22±1%	3950±1%	3987	0.30				
QN0805X333F4050FB	33±1%	4050±1%	4100	0.24				
QN0805X473F4050FB	47±1%	4050±1%	4100	0.20				
QN0805X683F4150FB	68±1%	4150±1%	4210	0.16				
QN0805X104F3950FB	100±1%	3950±1%	3987	0.14				
QN0805X104F4250FB	100±1%	4250±1%	4310	0.14				

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 (℃)
QN0805X103H3435FA	10±3%	3380±1%	3435±1%	0.44	2.0	<5	100	-40~+125
QN0805X103H3450FB	10±3%	3450±1%	3500	0.44				
QN0805X103H3950FB	10±3%	3950±1%	3987	0.44				
QN0805X223H3950FB	22±3%	3950±1%	3987	0.30				
QN0805X333H4050FB	33±3%	4050±1%	4100	0.24				
QN0805X473H4050FB	47±3%	4050±1%	4100	0.20				
QN0805X683H4150FB	68±3%	4150±1%	4210	0.16				
QN0805X104H3950FB	100±3%	3950±1%	3987	0.14				
QN0805X104H4250FB	100±3%	4250±1%	4310	0.14				

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 (℃)
QN0805X103J3435FA	10±5%	3380±1%	3435±1%	0.44	2.0	<5	100	-40~-125
QN0805X103J3450FB	10±5%	3450±1%	3500	0.44				
QN0805X103J3950FB	10±5%	3950±1%	3987	0.44				
QN0805X223J3950FB	22±5%	3950±1%	3987	0.30				
QN0805X333J4050FB	33±5%	4050±1%	4100	0.24				
QN0805X473J4050FB	47±5%	4050±1%	4100	0.20				
QN0805X683J4150FB	68±5%	4150±1%	4210	0.16				
QN0805X104J3950FB	100±5%	3950±1%	3987	0.14				
QN0805X104J4250FB	100±5%	4250±1%	4310	0.14				
QN0805X154J4250FB	150±5%	4250±1%	4310	0.11				
QN0805X224J3950FB	220±5%	3950±1%	3987	0.08				
QN0805X334J3950FB	330±5%	3950±1%	3987	0.07				
QN0805X474J3950FB	470±5%	3950±1%	3987	0.05				

0805 series NTC chip thermistor introduction:

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.

0805 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

0805 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.

Product Description:

SMD NTC Thermistor is a chip package thermistor which is widely used in temperature sensing and thermal control. It is manufactured in 0603 (1608) size with nominal zero-power resistance, ranging from 4.7KΩ-150KΩ. The thermal time constant is less than 5S and the dissipation factor is below 1.0mW/°C, which ensures its excellent performance and long stability. The storage temperature range is -40°C~+125°C, which makes SMD NTC Thermistor be an ideal choice for a variety of applications. Our SMD NTC thermistor production plant has been strictly monitoring and controlling the production process for high quality assurance.

Technical Parameters:

Parameter	Value
Constant (25/50℃) (K)	3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500
Operating Temperature Range	-40℃~+125℃
Dissipation Factor	<=1.0mW/°C
Rated Electric Power (25℃)	100(mW)
Product	SMD NTC Thermistor
Nominal Zero- Power Resistance	4.7KΩ-150KΩ
Time Constant	<=30S

Parameter	Value
Size	0402-1206
Storage Temperature Range	-40°C~+125°C
Thermal Time Constant	<5S

Applications:

LINKUN is a professional SMD NTC thermistor production plant with factory direct sales. Our temperature sensing component, negative temperature coefficient thermistor, has the model number of 1608X103F3450FB and it is certified with UL, ROHS, REACH. The minimum order quantity is 4000 pieces and the package is tape, 4000pcs/disk. The delivery time is 10 workdays and the payment terms are T/T, Western Union, MoneyGram. We can supply up to 1000,000,000 pieces per month with the nominal zero-power resistance of 4.7KΩ-150KΩ and the constant (25/50°C) of 3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500. The storage temperature range is -40°C~+125°C with the time constant of less than or equal to 30S and an accuracy of ±1%-±5%.

Customization:

SMD NTC Thermistor

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

Rated Electric Power(25°C): 100(mW)

Nominal Zero-Power Resistance: 4.7KΩ-150KΩ

Time Constant: <=30S

Constant (25/50°C) (K): 3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500

Product: SMD NTC Thermistor

LINKUN is a SMD NTC thermistor production plant, offering chip package thermistors, SMD NTC thermistors wholesale, and other related services. Our products are certified by UL, ROHS, and REACH, with rated electric power of 100mW and time constant of <=30S. We offer competitive prices, with minimum order quantity of 4000 pieces. Packaging details include tape, 4000pcs/disk. Delivery time is 10 workdays, and payment terms include T/T, Western Union, MoneyGram. Our supply ability is up to 1000,000,000 pieces per month.

Support and Services:

SMD NTC Thermistor Technical Support and Services

We provide technical support and services for our SMD NTC thermistors. Our dedicated staff of engineers and technicians are available to answer any questions you may have. We provide detailed technical information, on-site support, and troubleshooting assistance. We also offer a wide range of custom design services, including component selection, circuit design, and layout optimization. Our experienced team of engineers can provide comprehensive solutions that meet your specific needs. We can also provide on-site installation and training services.

We are committed to providing the highest levels of customer service and satisfaction. If you have any questions or concerns, please do not hesitate to contact us. We look forward to helping you find the perfect solution for your application.

Packing and Shipping:

SMD NTC Thermistor Packaging and Shipping:

The thermistors are individually packaged in an ESD-safe bag.

Each package is clearly labeled with all relevant information.

Packages are placed in a corrugated cardboard box.

The box is then sealed with strong adhesive tape.

The box is shipped using a reliable courier service.

FAQ:

Q1: What is SMD NTC Thermistor?

A1: SMD NTC Thermistor is a temperature sensitive resistor with a negative temperature coefficient, which is a model of LINKUN with model number 1608X103F3450FB.

Q2: Where is LINKUN SMD NTC Thermistor made?

A2: LINKUN SMD NTC Thermistor is made in Dongguan,Guangdong,China.

Q3: Are there any certifications for LINKUN SMD NTC Thermistor?

A3: Yes, LINKUN SMD NTC Thermistor has UL,ROHS,REACH certifications.

Q4: How many pieces of LINKUN SMD NTC Thermistor can I buy?

A4: The minimum order quantity of LINKUN SMD NTC Thermistor is 4000 pieces.

Q5: How is LINKUN SMD NTC Thermistor packaged?

A5: LINKUN SMD NTC Thermistor is packaged in tape, with 4000pcs/disk.



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