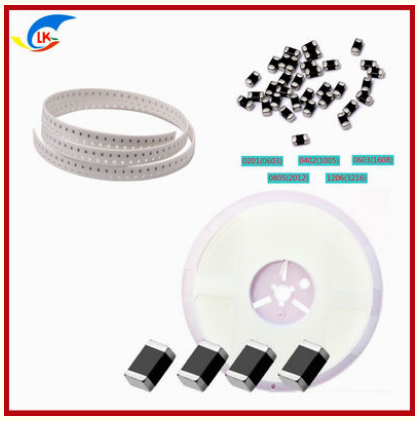
Surface Mount NTC Thermistor 100K Ohm 104F3950 4250 1%-5% Chip For Temperature Detection

Our Product Introduction

Basic Information

- Place of Origin: Dongguan,Guangdong,China
- Brand Name: LINKUN
- Certification: UL,ROHS,REACH
- Model Number: 0805(2012) 104F3950FB 4250
- 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

- Product: SMD NTC Thermistor
- Nominal Zero-Power Resistance: 4.7KΩ-150KΩ
- Storage Temperature Range: -40 ~+125
- Operating Temperature Range: -40 ~+125
- Dissipation Factor: <=1.0mW/
- Time Constant: <=30S
- Rated Electric Power(25 ： 100 mW)
- Accuracy: ±1%~±5%
- Highlight: **4250 NTC Thermistor**, **Surface mount NTC Thermistor**,

More Images

Our Product Introduction

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Product Description

1 Shape and Dimensions

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

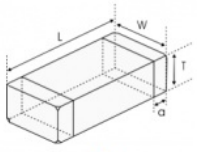

Fig.1

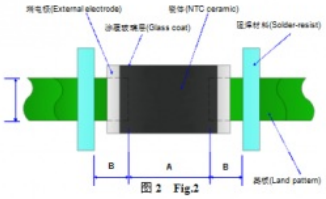

图 2 Fig.2

(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	
QN	Chip NTC Thermistor

② (mm) External Dimensions (L×W×T)	
0201[0603]	0.60×0.30×0.30
0402[1005]	1.00×0.50×0.50
0603[1608]	1.60×0.80×0.80
0805[2012]	2.00×1.25×0.85
1206[3216]	3.20×1.60×0.85

③ Delimiter
X

④ Nominal Zero-Power Resistance at 25℃	
222	2.2kΩ
473	47kΩ
104	100kΩ

⑤ Tolerance of Resistance	
F	±1%
G	±2%
H	±3%
J	±5%

⑥ B Constant	
3435	3435K
3950	3950K
4250	4250K

⑦ Tolerance of B Constant	
F	±1%
H	±3%

⑧ B constant calculation method	
A	25℃&85℃
B	25℃&50℃

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				
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	2.0	<5	100	-40~+125
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 ~+125 ;
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:

Our SMD NTC Thermistor is a chip package thermistor. It is available in two sizes, 0402 (1005) and 1206 (3216) and can work within an operating temperature range of -40 ~+125 . The permissible operating current at 25 is 0.31mA, and the dissipation factor is less than or equal to 1.0mW/ . The nominal zero-power resistance ranges from 4.7KΩ to 150KΩ. This SMD NTC Thermistor is highly reliable and can be used for various applications.

Technical Parameters:

Parameters	**SMD NTC Thermistor**
Dissipation Factor	**<=1.0mW/**
Permissible Operating Current (25)	0.31mA
Size	0402-1206
Storage Temperature Range	-40 ~+125
Time Constant	<=30S
Operating Temperature Range	-40 ~+125
Thermal Time Constant	<5S

Parameters	SMD NTC Thermistor
Rated Electric Power(25)	100(mW)
Constant (25/50) (K)	3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500
Accuracy	±1%~±5%
SMD negative temperature thermistor	SMD NTC Thermistor 1206(3216), SMD NTC Thermistor 0805(2012)

Applications:

The LINKUN SMD NTC Thermistor 0805/1005 is a temperature-sensing device that provides reliable and accurate temperature detection and control. It is designed for fast response, excellent thermal stability, and long-term reliability. It features a constant (25/50) of 3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500, a thermal time constant of less than 5 seconds, and a dissipation factor of less than 1.0mW/ . It has a storage temperature range of -40 ~+125 and a permissible operating current of 0.31mA at 25 . It is UL, ROHS and REACH certified, and comes with a minimum order quantity of 4000 pieces. It is available at a competitive price and comes with a 10-workday delivery time. It is factory direct sales, and supply is available in quantities up to 1000,000,000 pieces per month.
The LINKUN SMD NTC Thermistor 0805/1005 is ideal for use in a wide range of applications and scenarios, including home and industrial automation, medical equipment, HVAC systems, and lighting systems. It is also suitable for use in automotive and vehicle applications, temperature measurement and control, and in consumer electronics. It is easy to install and can be safely and securely packaged in tapes with 4000pcs/disk.

Customization:

SMD NTC Thermistor Customization Service
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
Dissipation Factor: <=1.0mW/
Time Constant: <=30S
Thermal Time Constant: <5S
Rated Electric Power(25): 100(mW)
Product: SMD NTC Thermistor
Keywords: SMD NTC thermistor production plant, SMD NTC thermistor production plant, SMD NTC Thermistor Wholesale Sales, SMD NTC Thermistor Customization Service

Support and Services:

SMD NTC Thermistor Technical Support and Service

We provide technical support and service for our SMD NTC thermistor products. Our knowledgeable support staff are available to answer any questions or provide assistance with product installation, troubleshooting, and maintenance.
We also offer a range of services to ensure your SMD NTC thermistor products are working at their best, including:

Product installation and setup

Troubleshooting and diagnostics

Software updates and upgrades

Product repair and maintenance

Replacement of defective parts

We are committed to providing the highest level of service and support for all of our products. If you have any questions or need assistance with your SMD NTC thermistor product, please contact our support staff.

Packing and Shipping:

The SMD NTC Thermistor product is packaged in static-dissipative bags and then placed in moisture-proof, shock-resistant boxes. The boxes are then placed in cardboard boxes for shipping. The cardboard boxes are taped and labeled with the appropriate shipping information. Bubble wrap is then used to protect the product during transit.

FAQ:

Q1: What is SMD NTC Thermistor?

SMD NTC Thermistor is a kind of temperature-sensing device with high precision, small size, fast response and good stability. It can be used to detect and control the temperature in a variety of applications.

Q2: What is the Brand Name, Model Number and Place of Origin of SMD NTC Thermistor?

The Brand Name of SMD NTC Thermistor is LINKUN, the Model Number is 1608X103F3450FB, and the Place of Origin is Dongguan, Guangdong, China.

Q3: What is the Certification of SMD NTC Thermistor?

The Certification of SMD NTC Thermistor is UL, ROHS, and REACH.

Q4: What is the Minimum Order Quantity and Price?

The Minimum Order Quantity of SMD NTC Thermistor is 4000 Pieces, and the Price is TBA.

Q5: What is the Packaging Details, Delivery Time, Payment Terms and Supply Ability?

The Packaging Details of SMD NTC Thermistor is Tape, 4000pcs/disk, the Delivery Time is 10 workdays, the Payment Terms is T/T, Western Union, MoneyGram, and the Supply Ability is 1000,000,000 Pieces Per Month.

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