

Dongguan, Guangdong, China

# 0402 Series Multi-Precision Chip Thermistor 103F3435FA 10Kohm 3435k

# **Basic Information**

- Place of Origin:
- Brand Name:
- Certification:
- Model Number: 0402 103F3435FA
- Minimum Order 10000 Pieces
   Quantity:
- Price: Negotiation
- Packaging Details: Tape, 10000pcs/disk
- Delivery Time: 10 workdays
- Payment Terms: T/T, Western Union, MoneyGram

LINKUN

UL,ROHS,REACH

• Supply Ability: 1000,000,000 Pieces Per Month



# **Product Specification**

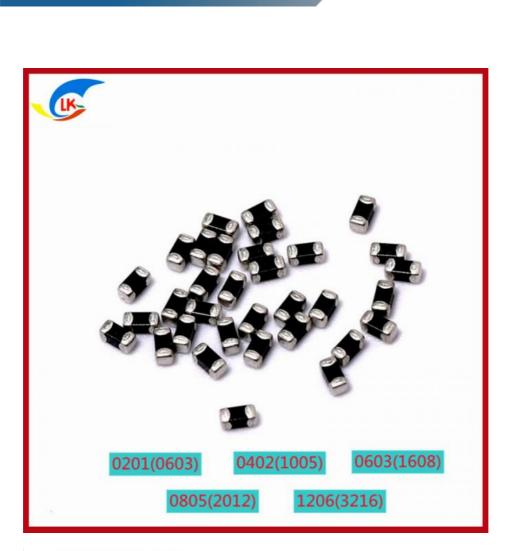
- Thermal Time Constant: <5S
- Permissible Operating 0.31mA Current ( 25°C):
- Time Constant: <=30S
- Nominal Zero-Power 4.7KΩ-150KΩ Resistance:
- Operating Temperature -40°C~+125°C Range:
- Dissipation Factor: <=1.0mW/°C
- Storage Temperature -40°C~+125°C Range:
- Size: 0201-1206
- Highlight:
- NTC 0402 series Thermistor, Multi-Precision Chip Thermistor,



# More Images



# **Product Description**



2 Product Identification(Part Number)

	<u>QN</u> <u>0402</u> ① ②	<u>X</u> <u>103</u> (3) (4)	<u>F</u> <u>3435</u> <u>F</u> 5 6 7	<b>A</b> (3)	
<ol> <li>Type</li> </ol>		(1)Nominal Ze 25°C	ero-Power Resistance at	B Constant     B     Constant     Const     Constant     Constant     Constant     Constant     Const	int
QN		222	2.2kΩ	3435	3435K
	Chip NTC Thermistor	103	10kΩ	3950	3950K
②(mm) External Dime	nsions (L×W×T)	474	470kΩ	4250	4250K
0201[0603]	0.60×0.30×0.30			7 Tolerance o	f B Constant
0402[1005]	1.00×0.50×0.50	5 Tolerance	ofResistance	F	±1%
0603[1608]	1.60×0.80×0.80	F	±1%	н	±3%
0805[2012]	2.00×1.25×0.85	G	±2%		
1206[3216]	3.20×1.60×0.85	Н	±3%	B constant of	alculation method
③ Delimiter		J	±5%	A	25°C&85°C
S Definitier	x			В	25°C&50°C

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Specifications for Chip NTC thermistor

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#### 3 Electrical Characteristics

#### 1) F Series

Part No	Resistance (25°C) (kQ)	B Constant (25/50°C) (K)	B Constant (25/85°C) (K)	Permissible Operating Current (25°C) ( <u>mA</u> )	Dissipation Factor (mW/°C)	Thermal Time Constant (s)	Rated Electric Power(25°C) (mW)	Operating ambient temperature (°C)
QN0402X103F3435FA	10±1%	3380±1%	3435±1%	0.31				
QN0402X103F3450FB	10±1%	3450±1%	3500	0.31				
QN0402X103F3950FB	10±1%	3950±1%	3987	0.31				
QN0402X223F3950FB	22±1%	3950±1%	3987	0.21				
QN0402X333F4050FB	33±1%	4050±1%	4100	0.17				
QN0402X473F4050FB	47±1%	4050±1%	4100	0.14	1.0	<3	100	-40~+125
QN0402X683F4150FB	68±1%	4150±1%	4210	0.12				
QN0402X104F3950FB	100±1%	3950±1%	3987	0.10				
QN0402X104F4250FB	100±1%	4250±1%	4310	0.10				
QN0402X474F4050FA	470±1%	4000±1%	4050±1%	0.04				

#### 2) H Series

Part No	Resistance (25℃) (kΩ)	B Constant (25/50°C) (K)	B Constant (K)	Permissible Operating Current (25°C) ( <u>mA</u> )	Dissipation Factor ( <u>mW</u> /'C)	Thermal Time Constant (s)	Rated Electric Power(25°C) (mW)	Operating ambient temperature (°C)
QN0402X103H3435FA	10±3%	3380±1%	3435±1%	0.31				
QN0402X103H3450FB	10±3%	3450±1%	3500	0.31				
QN0402X103H3950FB	10±3%	3950±1%	3987	0.31				
QN0402X223H3950FB	22±3%	3950±1%	3987	0.21				
QN0402X333H4050FB	33±3%	4050±1%	4100	0.17	1.0	<3	100	-40~+125
QN0402X473H4050FB	47±3%	4050±1%	4100	0.14				
QN0402X683H4150FB	68±3%	4150±1%	4210	0.12				
QN0402X104H3950FB	100±3%	3950±1%	3987	0.10				
QN0402X104H4250FB	100±3%	4250±1%	4310	0.10				

Specifications for Chip NTC thermistor

3) J Series

Part No	Resistance (25℃) (kΩ)	B Constant (25/50°C) (K)	B Constant (25/85°C) (K)	Permissible Operating Current (25°C) ( <u>mA</u> )	Dissipation Factor (mW/°C)	Thermal Time Constant (\$)	Rated Electric Power(25°C) (mW)	Operating ambient temperature (°C)
QN0402X103J3435FA	10±5%	3380±1%	3435±1%	0.31				
QN0402X103J3450FB	10±5%	3450±1%	3500	0.31			100	-40~+125
QN0402X103J3950FB	10±5%	3950±1%	3987	0.31				
QN0402X223J3950FB	22±5%	3950±1%	3987	0.21				
QN0402X333J4050FB	33±5%	4050±1%	4100	0.17	1.0	<3		
QN0402X473J4050FB	47±5%	4050±1%	4100	0.14				
QN0402X683J4150FB	68±5%	4150±1%	4210	0.12				
QN0402X104J3950FB	100±5%	3950±1%	3987	0.10				
QN0402X104J4250FB	100±5%	4250±1%	4310	0.10				
QN0402X474J4050FA	470±5%	4000±1%	4050±1%	0.04				

### **Product Description:**

4 Test and Measurement Procedures

**Test Conditions** 

Unless otherwise specified, the standard atmospheric

a. Aconditions for measurement/test as: mbient Temperature: 20±15°C

b. Relative Humidity: 65±20%

c. Air Pressure: 86kPa to 106kPaf any doubt on the results, measurements/tests should

be made within the following limits:

- a. Ambient Temperature: 25±2°C
- b. Relative Humidity: 65±5% c. Air Pressure: 86kPa to 106kPa
- C. All Flessure. ookra to look

### Inspection Equipment

Visual Examination: 20×magnifier Resistance value test: <u>Thermistor</u> resistance tester

5 Elect	rical Test	
No.	Items	Test Methods and Remarks
1	Nominal Zero-Power Resistance at 25°C(R25)	Ambient temperature: 25±0.05℃ Measuring electric power: ≤0.1mW
2	Nominal B Constant	$\begin{array}{llllllllllllllllllllllllllllllllllll$
3	Thermal Time Constant	The total time for the temperature of the <u>thermistor</u> to change by 63.2% of the difference from ambient temperature $T_0(C)$ to $T_1(C)$ by the drastic change of the power applied to thermistor from Non-zero Power to Zero-Power state, normally expressed in second(S).

Items	Standard	Test	Methods an	d Remarks		R	lequiren	ents	_
		Solder the chip to the test using eutectic solder. The			-	No removal of or other defect	-		rminat
Term in al	IEC 60068-2-21	Size	F	Duration		Chief			
Strength		0201, 0402, 060	03 5N	- 10±1s				•	- '
		0805	10N	TOLIS			, 📖		
		Solder the chip to the tes	st jig (glass e	poxy board sho	wn in the right)	No visibl	-		
		Solder the chip to the tes using a eutectic solder. T follow;				②   ΔR25/R	125   ≤59	% it:mn	1
		using a eutectic solder. T					125   ≤59	1/0	c
		using a eutectic solder. T				<ul> <li>Даказы</li> <li>Даказы</li> <li>Туре</li> <li>0201</li> </ul>	225   ≤59 un a 0.25	6 it : mn b 0.3	c 0.3
Resistance	IEC 60068-2-21	using a eutectic solder. T				<ul> <li>ΔR25/R</li> <li>Type</li> <li>0201</li> <li>0402</li> </ul>	un a 0.25   ≤59 un 0.25 0.4	it : mn b 0.3 1.5	c 0.3 0.5
Resistance to <u>Flexure</u>	IEC 60068-2-21	using a eutectic solder. T			ection shown as	<ul> <li>Даказы</li> <li>Даказы</li> <li>Туре</li> <li>0201</li> </ul>	225   ≤59 un a 0.25	6 it : mn b 0.3	

Vibration	IEC 60068-2-80	<ul> <li>Solder the chip to the testing jig (glass epoxy board shown in the left) using eutectic solder.</li> <li>The chip shall be subjected to a simple harmonic motion having total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55 Hz.</li> <li>The frequency ranges from 10 to 55 Hz and return to 10 Hz shall be traversed in approximately 1 minute. This motion shall be applied for a period of 2 hours in each 3mutually perpendicular directions (total of 6 hours).</li> </ul>	No visible damage. 例約 Cu pad 現現最 Solder mask 位在 100 100 100 100 000 100 100 100 100 100
Dropping	IEC 60068-2-32	Drop a chip 10 times on a concrete floor from a height of 1 meter.	No visible damage.

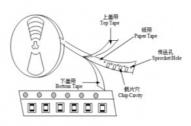
7 Taping

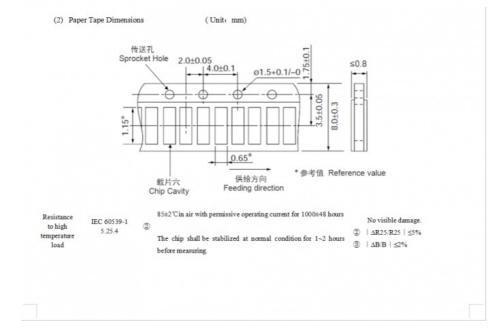
Specifications for Chip NTC thermistor

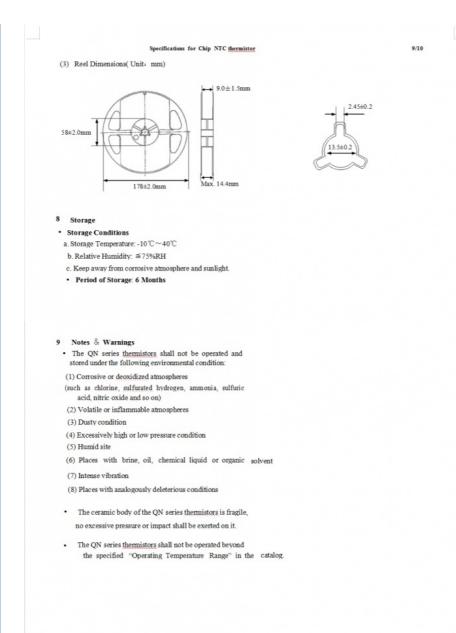
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Туре	0402
Tape thickness(mm)	0.5±0.15
Tape material	Paper Tape
Quantity per Reel	10K

(1) Taping Drawings







SMD NTC Thermistor is a high precision chip NTC thermistor, which is a negative temperature thermistor that can be used to detect temperature change accurately. It has a constant (25/50°C) of 3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500 K and a rated electric power(25°C) of 100 mW, and its dissipation factor is less than or equal to 1.0 mW/°C. The storage temperature range is -40°C to +125°C, and the permissible operating current (25°C) is 0.31 mA. This NTC thermistor is highly accurate and reliable, making it ideal for temperature measurement, sensing, and control applications.

#### **Technical Parameters:**

Product	SMD NTC Thermistor
Operating Temperature Range	-40°C~+125°C
Accuracy	±1%~±5%
Dissipation Factor	≤1.0mW/°C
Size	0402-1206
Constant (25/50°C) (K)	3200/ 3380/ 3435/ 3600/ 3950/ 4100/ 4250/ 4500
Time Constant	≤30S
Permissible Operating Current ( 25°C)	0.31mA

Nominal Zero- Power Resistance	4.7ΚΩ-150ΚΩ
Rated Electric Power (25°C)	100(mW)
Size	0603(1608),0805(2012),0402(1005),1206(3216)

### **Applications:**

SMD NTC Thermistor Factory Direct Sales

LINKUN provides a wide range of SMD NTC Thermistors and customized solutions to meet customer needs. With UL, ROHS, REACH certification, our SMD NTC Thermistors are available in 1206 (3216), 1210 (3528), 1608 (4050) packages. Our SMD NTC Thermistors are characterized by a wide operating temperature range of -40°C~+125°C, a permissible operating current of 0.31mA at 25°C, and a nominal zero-power resistance of  $4.7K\Omega$ -150K $\Omega$ . The time constant of our SMD NTC Thermistors is less than or equal to 30S. We offer factory direct sales and accept orders with a minimum quantity of 4000 pieces. Prices are based on the quantity and delivery time is 10 workdays. Payment methods include T/T, Western Union, and MoneyGram. We are capable of supplying up to 1,000,000,000 pieces per month.

#### **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 Accuracy: ±1%~±5% Nominal Zero-Power Resistance: 4.7KΩ-150KΩ Time Constant: <=30S Rated Electric Power(25°C): 100(mW) Product: SMD NTC Thermistor Our SMD NTC thermistor production plant is a professional supplier of SMD NTC thermistor 0805(2012), high precision chip NTC thermistor. We provide customized services to meet your specific needs.

## Support and Services:

SMD NTC Thermistor provides technical support and services including: 24/7 online customer support Technical guidance and troubleshooting Replacement parts and repairs On-site installation and maintenance Training and seminars

### **Packing and Shipping:**

SMD NTC Thermistor's Packaging and Shipping: The SMD NTC Thermistor will be packed in a static-proof bag and placed in a cardboard box. The box should be labeled with the product name, quantity, and batch number. The package should be sealed with a waterproof tape. The package should be shipped with a reliable carrier or express delivery service.

## FAQ:

Q: What is SMD NTC Thermistor?
A: SMD NTC Thermistor is a type of negative temperature coefficient thermistor for surface mount devices (SMD).
Q: What is the brand name of the product?
A: The brand name of the product is LINKUN.
Q: What is the model number of the product?
A: The model number of the product is 1608X103F3450FB.

Q: Where is the product from?

