Electronic Practical SMD MOV Varistor , Moistureproof Surface Mount Resistor

Our Product Introduction

Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: SMD NTC Thermistor
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: Export Package / Negotiation
- Delivery Time: Negotiation
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 24 million per year

Product Specification

- Feature: High Reliabilityand Stability
- Application: General Purpose, Electronic Product
- Accuracy: +/-1% ~5%
- Operating Temperature: -50-200 Degrees Celsius
- Resistance Tolerance: 10%-0.15%
- Operating Range: -50~200c
- Highlight: **Electronic SMD MOV Varistor**, **Practical SMD MOV Varistor**, **Moistureproof Surface Mount Resistor**

Our Product Introduction

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

Product Description

Excellenthumidity Resistance SMD Varistor Small Size RoSH Compliant

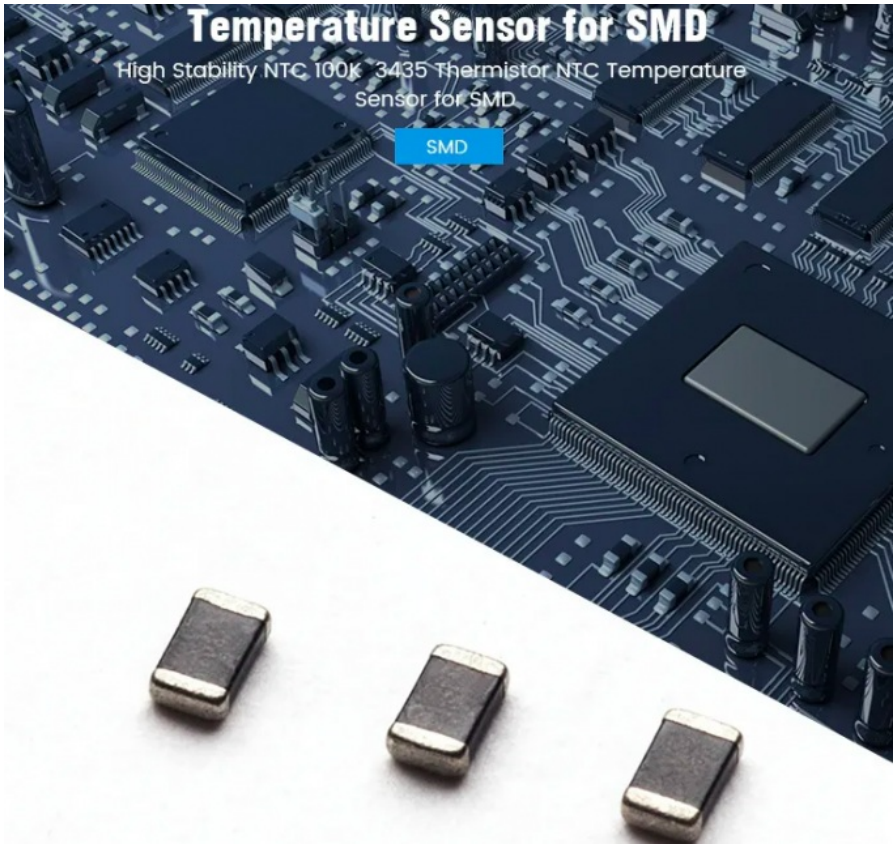
SMD chip NTC thermistor has the characteristics of small size, high reliability ceramic structure, fast response, good heat cycle resistance, etc., and is widely used in lithium batteries, hybrid design multi-function modules, IT equipment, etc. Because the SMD chip NTC thermistor is suitable for leadless high-density surface mount, it plays the role of temperature monitoring and overheating protection in the following products:

Temperature monitoring of smartphones and tablets

In a smartphone or tablet, multiple SMD thermistors are used for temperature monitoring, and the basic circuit is a voltage divider circuit connected in series with NTC thermistors and fixed resistors. The resistance value of the NTC thermistor installed near the heat-generating parts such as the CPU and power module will decrease with the rise of temperature, so the output voltage of the voltage divider circuit will change, and the change will protect the circuit components after being sent to the microcontroller. Affected by overheating.

Temperature monitoring during mobile device battery charging

In battery packs (lithium-ion batteries) of mobile devices such as smartphones, there are terminals for temperature monitoring in addition to + terminals and - terminals, and SMD thermistors are mounted inside them. When the battery temperature rises, the temperature of the NTC thermistor will also rise, and the resistance value will drop. When the charging temperature exceeds the upper limit, the charging control IC will stop charging. A protection IC within the battery pack measures the battery voltage to prevent overcharging or overdischarging. In situations such as fast charging that require more precise charging control, an NTC thermistor is required to be connected to the charging control IC to measure the ambient temperature.



Specification

1. Professional Varistorr supplier. SMD series
2. Wide parameter range for your choice.
3. High quality guaranteed ISO9001:2008 quality approve
4. Application: Electronic products, new products, new designs.
5.Technical support and professional recommendation

type	size L×W×T(mm)	R25 (kΩ)	B(25/50) (K)	allowable working current (25℃) (mA)	Thermal time constant
QN0201	0.60×0.30×0.30	1.0 220	3380 4485	0.06 1.00	3
QN0402	1.00×0.50×0.50	1.0 680	3380 4500	0.03 1.00	3
QN0603	1.60×0.80×0.80	1.0 1300	3380 4500	0.02 1.00	5

QN0805	2.00×1.25×0.85	1.0 1300	3380 4500	0.02 1.40	5
QN1206	3.20×1.60×0.85	10 1300	3380 4500	0.03 0.66	8

Product parameters

P/N	R@25℃	Tolerance(%)	Beta Value	Tolerance(%)
MF11-050	5	±5 ±10 ±20	2400	±5 ±10
MF11-100	10		2800	
MF11-150	15		2800	
MF11-200	20		2800	
MF11-220	22		2800	
MF11-270	27		3000	
MF11-330	33		3000	
MF11-390	39		3000	
MF11-470	47		3100	
MF11-500	50		3100	
MF11-680	68		3100	
MF11-820	82		3100	
MF11-101	100		3200	
MF11-121	120		3200	
MF11-151	150		3200	
MF11-201	200		3200	
MF11-221	220		3500	
MF11-271	270		3500	
MF11-331	330		3500	
MF11-391	390		3500	
MF11-471	470		3500	
MF11-501	500		3500	
MF11-561	560		3500	
MF11-681	680		3800	
MF11-821	820		3800	
MF11-102	1000		3800	
MF11-122	1200		3800	
MF11-152	1500		3800	
MF11-202	2000		4000	
MF11-222	2200		4000	
MF11-272	2700		4000	
MF11-302	3000		4000	
MF11-332	3300		4000	
MF11-392	3900		4000	
MF11-472	4700		4050	
MF11-502	5000		4050	
MF11-562	5600		4050	
MF11-682	6800		4050	
MF11-822	8200		4050	
MF11-103	10000		4050	
MF11-123	12000		4050	
MF11-153	15000		4150	
MF11-203	20000		4300	
MF11-303	30000		4300	
MF11-473	47000		4300	
MF11-503	50000		4300	
MF11-683	68000		4300	
MF11-104	100000		4500	
MF11-124	120000		4700	
MF11-154	150000		4700	
MF11-204	200000		4700	
MF11-304	300000		4700	
MF11-504	500000		4800	
MF11-105	1000000		4900	

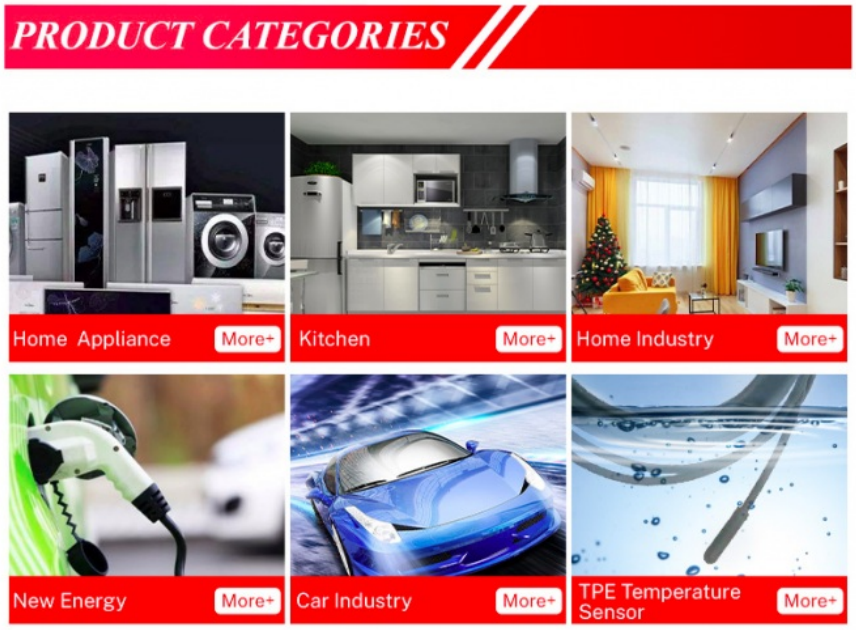
Product Uses

1.TCXO,Temperature compensating circuit of LCD
2.Temperature sensing in rechargeable batteries and chargers/CPU
3.IC and semiconductor protecting.
4.Printer temperature compensating circuit. Player Driver
5.Telecom exchanger
6.DC/AC transformer and HIC over heat protecting.

Conventional product electrical performance parameters

Part No.	R25℃ (KΩ)	B(K) 25/50℃	Rated Power @25℃(mW)	Dissipation Factor(δ) (mW/℃)	Thermal time Constant (S)
TS502□3274A	5.0	3274	10-20	2-4	5-20
TS502□3435B	5.0	3435	10-20	2-4	5-20
TS502□3470A	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
TS103□4100A	10.0	4100	10-20	2-4	5-20
TS153□3950A	15.0	3950	10-20	2-4	5-20
TS153□4100A	15.0	4100	10-20	2-4	5-20
TS203□3950A	20.0	3950	10-20	2-4	5-20
TS203□4100A	20.0	4100	10-20	2-4	5-20
TS223□4200A	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
TS503□4100A	50.0	4100	10-20	2-4	5-20
TS104□3950A	100.0	3950	10-20	2-4	5-20
TS104□4100A	100.0	4100	10-20	2-4	5-20
TS104□4400A	100.0	4400	10-20	2-4	5-20

Negative temperature coefficient thermistor, also known as NTC thermistor, is a kind of sensor resistance whose resistance value decreases with the increase of temperature. Widely used in various electronic components, such as temperature sensors, resettable fuses and self-adjusting heaters, etc.



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