



10Ω 78μF Power NTC Thermistor MF72-SCN10D-7 Halogen Free RoHS Compliant

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: MF72-SCN10D-7
- Minimum Order Quantity: 1000PCS / 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Product Name: NTC Thermistor
- Package Type: Φ7mm
- R25: 10Ω
- I_{max}: 1A
- Resistance Under Load: 616mΩ
- δ: 9mW/
- τ: 27 Secs.
- C: 78μF
- Storage Temperature Range: -10 To +40
- Highlight: 10Ω NTC Thermistor, RoHS NTC Thermistor



More Images



Product Description

10 Ω 78 μ F Power NTC Thermistor MF72-SCN10D-7 RoHS Halogen Free Compliant

DATASHEET: [MF72-SCN10D-7_v2105.1.pdf](#)

Part Number	Resistance at 25 $\pm 20\%$	Max. Permissible Working Current	Resistance under Load (m Ω)	Dissipation Factor	Thermal Time Constant	Maximum permissible capacitance @240Vac
	R ₂₅ (Ω)	I _{max} (A)	(m Ω)	δ (mW/)	τ (Sec.)	C(μ F)
MF72-SCN10D-7	10	1	616	9	27	78

About NTC

NTC thermistor is a very simple temperature sensor, which refers to negative temperature coefficient thermistor and is very common in consumer electronics. NTC thermistor is a typical temperature-sensitive semiconductor resistor. Its resistance decreases as the temperature increases.

NTC thermistor principle

NTC thermistors generally use metal oxides such as manganese, manganese, cobalt, nickel and copper as the main materials. These metal oxide materials have semiconductor properties. Because the conductive mode is completely similar to semiconductor materials such as germanium and silicon, when the temperature is low, the number of carriers (electrons and holes) of these oxide materials is small, so the resistance of the thermistor is higher; as the temperature increases As the value increases, the number of carriers increases, so the resistance of the thermistor decreases.

NTC thermistor function

1. Suppression of surge current; 2. Temperature measurement; 3. Temperature compensation; 4. Liquid level measurement; 5. Overheating protection.

These are all well-known to everyone. In addition, NTC thermistors are cost-effective, have various packaging forms to adapt to various scenarios, and are very simple to use. They are widely used in household appliances, power industry, communications, military science, aerospace, etc. each field.



Features:

RoHS & Halogen Free (HF) compliant
 Body size: $\phi 7\text{mm}$
 Radial lead resin coated
 High power rating
 Wide resistance range
 Cost effective
 Operating temperature range: $-40\sim+200$
 Agency recognition: UL /cUL/RoHS

Applications:

- u Switch mode power supply
- u Electric motor
- u Transformer
- u Adapter
- u Projector
- u Halogen lamp
- u LED driver circuit

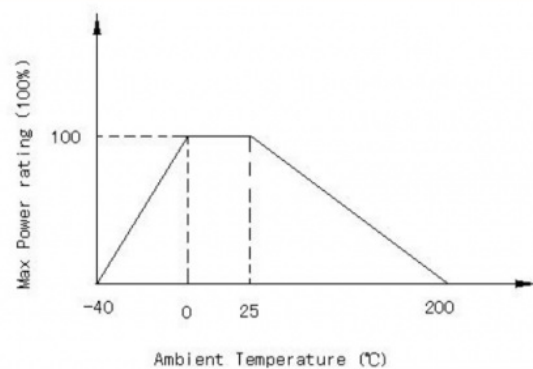
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MF72 SCN 10D - 7

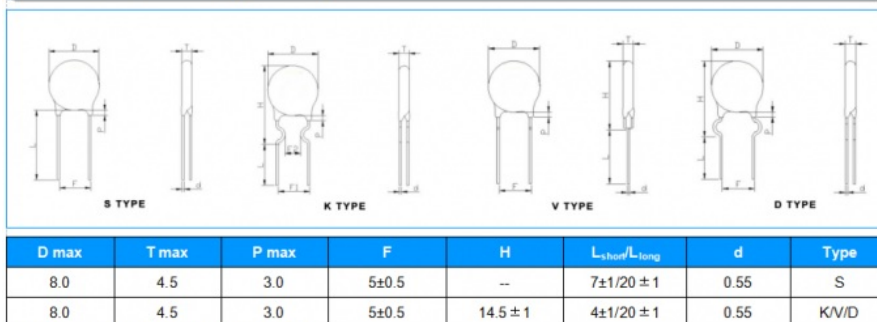
(1) (2) (3) (4)

- (1) MF72: MF72 Series.
 (2) SCN: Socay NTC.
 (3) 10D: Zero Power Resistance at 25°C (R_{25}): $10=10\Omega$.
 (4) Body Size: $7=\phi 7\text{mm}$.

Maximum Power Rating (Pmax)



Structure and Dimensions (Unit: mm)



Note: Length of Pin (L) can be customized.

Part Number	Type of L	Quantity (pcs/bag)
MF72-SCN10D-7	L _{short}	1000
	L _{long}	500

Item	Test conditions / Methods	Test Result
Tensile Strength of Terminals	Fasten body with a Load Applied to each lead 3.0Kg for 1sec.	No break out and damage
Bending Strength of Terminals	Fixed body hand 1.0kg on one terminal bend 90 then back again oppsite.	No break out and damage
Solder Ability	When the Lead wire was dipped into bath of 235 ± 5 for 3 seconds after immersion in 25% rosin flux the solder ability ratio of lead wire surface should more than 95%.	More than 95% solder ability
Temp. Cycle Test	$(-40 \times \rightarrow +25 \times 3\text{min}) \times 5\text{Cycles}$ $(-85 \times \rightarrow +25 \times 3\text{min}) \times 5\text{Cycles}$	$ \Delta R/R \leq \pm 20 \%$
Humidity Test	45 95%RH×1000 hours	$ \Delta R/R \leq \pm 20 \%$
Load Life	6 AMP×1000 hours	$ \Delta R/R \leq \pm 20 \%$
Insulation Test	DC 700V	$R \geq 500M\Omega$

1.FAQ

Q1. Can I have a sample order ?

A: Yes, we welcome sample order to test and check quality. Mixed samples are acceptable.

Q2. What about the lead time?

A: Sample needs 1 days, mass production time needs 1-2 weeks for order quantity more than

Q3. Do you have any MOQ ?

A: MOQ depend on the type of product, 1pc for sample checking is available

Q4. How do you ship the goods and how long does it take to arrive?

A: We usually ship by DHL, UPS, FedEx or TNT. It usually takes 3-5 days to arrive. Airline and sea shipping also optional.

Q5. How to proceed an order ?

A: Firstly let us know your requirements or application.

Secondly We quote according to your requirements or our suggestions.

Thirdly customer confirms the samples and places deposit for formal order.

Fourthly We arrange the production.



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