78μF 2A Imax NTC Thermistor MF72-SCN5D-7 Radial Lead Resin Coated

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL,REACH,RoHS,ISO
- Model Number: MF72-SCN5D-7
- Minimum Order Quantity: 1000PCS / 500PCS
- Price: Negotiable
- Packaging Details: bulk
- Delivery Time: 5-8 work days

Product Specification

- Product Name: NTC Thermistor
- Package Type: Φ7mm
- R25: 5Ω
- Imax: 2A
- Resistance Under Load: 283mΩ
- δ: 10mW/
- τ: 30 Secs.
- C: 78μF
- Storage Temperature Range: -10 To +40
- Highlight: **78μF NTC Thermistor**, **2A Imax NTC Thermistor**

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Product Description

78μF 2A Imax NTC Thermistor MF72-SCN5D-7 Radial Lead Resin Coated

DATASHEET: MF72-SCN5D-7_v2105.1.pdf

Part Number	Resistance at 25 ±20%	Max. Permissible Working Current	Resistance under Load (mΩ)	Dissipation Factor	Thermal Time Constant	Maximum permissible capacitance @240Vac
	R_{25}(Ω)	I_{max}(A)	(mΩ)	δ(mW/)	τ(Sec.)	C(uF)
MF72-SCN5D-7	5	2	283	10	30	78

About NTC

The working principle of NTC thermistor is: when the temperature rises, the free electrons and holes in the thermosensitive material increase, causing the electron concentration within the material to increase, so the conductivity also increases. Since resistance and conductivity are related, resistance decreases as temperature increases.

The functions of NTC thermistor mainly include the following aspects

1. Temperature measurement and control: NTC thermistors can be used to measure and control the temperature of various devices and systems, such as car engines, solar panels, refrigerators, ovens, etc.
2. Electronic circuit protection: NTC thermistors can be used for overcurrent, overvoltage, overheating and other protection of electronic circuits, such as power supplies, motor drivers, UPS and other equipment.
3. Environmental monitoring: NTC thermistors can be used to monitor indoor and outdoor environmental temperatures, such as greenhouses, weather stations, etc.
4. Medical equipment: NTC thermistors can be used in medical equipment, such as blood glucose meters, thermometers, etc.
5. Wearable devices: NTC thermistors can be used in wearable devices, such as smart bracelets, smart watches, etc., to measure physiological parameters such as human body temperature and heart rate.

Features:

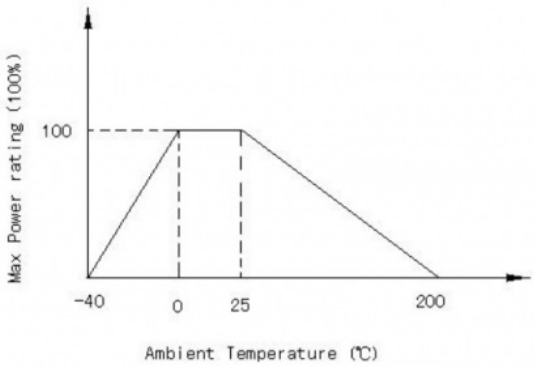
RoHS & Halogen Free (HF) compliant
Body size: φ7mm
Radial lead resin coated
High power rating
Wide resistance range
Cost effective
Operating temperature range: -40~+200
Agency recognition: UL /cUL/RoHS

Part Number Code

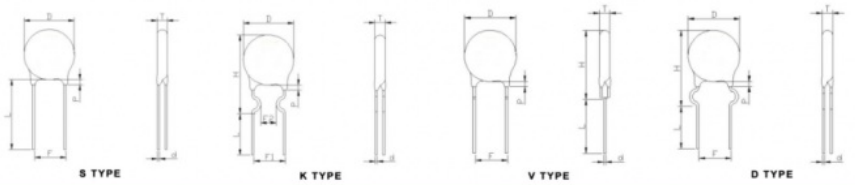
MF72	SCN	5D	-	7
(1)	(2)	(3)		(4)

(1) MF72: MF72 Series.
(2) SCN: Socay NTC.
(3) 5D: Zero Power Resistance at 25℃(R_{25}): 5=5Ω.
(4) Body Size: 7=Φ7mm.

Maximum Power Rating（Pmax）



Structure and Dimensions (Unit: mm)



D max	T max	P max	F	H	L_{short}/L_{long}	d	Type
8.0	4.5	3.0	5±0.5	--	7±1/20 ± 1	0.55	S
8.0	4.5	3.0	5±0.5	14.5 ± 1	4±1/20 ± 1	0.55	K/V/D

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

Part Number	Type of L	Quantity (pcs/bag)
MF72-SCN5D-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 0f 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 ×→+25 ×3min) × 5Cycles (-85 ×→+25 ×3min) × 5Cycles	| ΔR/R | ≤ ±20 %
Humidity Test	45 95%RH×1000 hours	| ΔR/R | ≤ ±20 %
Load Life	6 AMP×1000 hours	| ΔR/R | ≤ ±20 %
Insulation Test	DC 700V	R≥500MΩ

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