



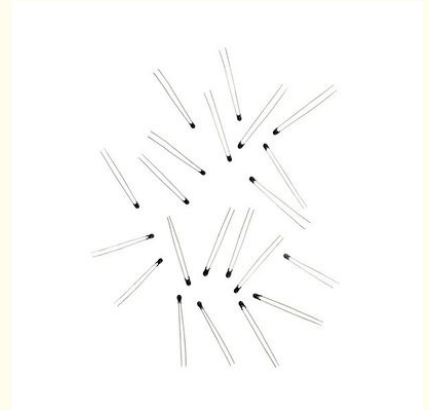
## MF52-CP Series MF52-202F3550FBCP Tiny Thermal Time Constant Thermistor Temperature Sensor

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: MF52-202F3550FBCP
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Packaging Details: Bulk
- Delivery Time: 5-7 days
- Payment Terms: T/T, Paypal, Western Union, Money gram
- Supply Ability: 250,000PCS Per Month



### Product Specification

- B Constant (25/50)(K):  $3470 \pm 1\%$
- Dissipation Factor(mW/°C): 3
- Type: MF52-CP Series
- Part Number: MF52-202F3550FBCP
- Operating Ambient Temperature(°C):  $-40 \sim +125$
- Foot Length: Customizable
- Application: Temperature Measurement
- Highlight: **MF52-CP Series Thermistor, MF52-202F3550FBCP Thermistor, Tiny Thermal Time Constant Thermistor**



### More Images



## Product Description

### Product Description:

The MF52-202F3470FBCP has an operating ambient temperature range of -40 to +125 , which makes it suitable for use in a wide range of operating conditions and environments. It is a reliable and accurate temperature sensing solution that can be used in various applications such as temperature control, overheat protection, and temperature compensation.

This NTC Thermistor has a B Constant of -- at 25/85 , which means that its resistance changes at a different rate depending on the temperature. This makes it suitable for use in applications where the temperature range is wider and requires more accurate temperature sensing.

In summary, the MF52-202F3470FBCP is a reliable and accurate NTC Thermistor that is suitable for temperature measurement applications. Its negative temperature coefficient ensures accurate sensing of temperature changes, and its wide operating ambient temperature range makes it ideal for use in various environments. Its pearl-shape design also makes it easy to install and use.

### Features:

Product Name: NTC Thermistor

Part Number: MF52-202F3550FBCP

Type: MF52-CP Serie MF52-202F3550FBCP

Brand Name: SOCA Y

Standard: RoHS & Halogen Free (HF) Compliant

B Constant (25/50 )(K): 3550±1%

Function: Thermal Resistive Temperature Sensor

Technology: Negative Temperature Coefficient Resistor

### Technical Parameters:

Enterprise Type	Co,Ltd
Thermal Resistive Temperature Sensor Type	NTC Thermistor
Thermal Time Constant(s)	12
Foot Length	Customizable
Application	Temperature Measurement
Operating Ambient Temperature( )	-40 ~ +125
Type	MF52-202F3550FBCP
B Constant(25/85 )(K)	--
Part Number	MF52-202F3550FBCP
Dissipation Factor(mW/ )	3
Features	MF52 Pearl-Shape Temperature Measurement NTC Thermistor

### Applications:

With a B constant (25/50 ) of 3550±1%, the MF52-202F3550FBCP NTC thermistor is perfect for use in temperature monitoring and control systems, including industrial and medical equipment, HVAC systems, and more. Its small size and low cost make it an attractive option for a wide range of applications.

Produced by SOCA Y, a leading Co., Ltd. based in Shenzhen, Guangdong, China, this NTC thermistor is RoHS and halogen-free compliant, ensuring that it meets the highest environmental standards. It is also UL, REACH, ROHS, and ISO certified, ensuring that it meets the highest quality standards.

The minimum order quantity for the MF52-CP Series NTC thermistor is 500PCS, and the price is negotiable. Packaging is done in bulk, and delivery time is typically 5-7 days. Payment terms include T/T, Paypal, Western Union, and Money Gram, and SOCA Y has a supply ability of 250,000PCS per month, ensuring that you can get the thermistors you need when you need them.

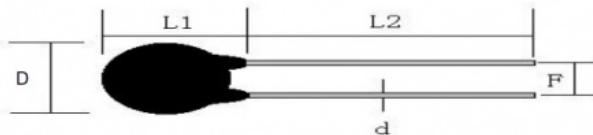
Overall, if you're looking for a high-quality NTC thermistor that is accurate, reliable, and affordable, the SOCA Y MF52-CP Series is an excellent choice. So why wait? Contact SOCA Y today to learn more about the MF52-CP Series MF52-202F3550FBCP and how it can meet your temperature monitoring needs!

### Customization:

The minimum order quantity for our MF52-CP Series MF52-202F3550FBCP NTC thermistor is 500PCS, and the price is negotiable. Our

packaging details are bulk, and the delivery time is 5-7 days. We accept T/T, Paypal, Western Union, and Money gram as payment terms. With a supply ability of 250,000PCS per month, our MF52-CP Series NTC thermistor has a dissipation factor (mW/ ) of 3. The part number for this product is MF52-202F3550FBCP, and the resistance (25 ) (k $\Omega$ ) is 2 $\pm$ 1%. Our MF52-CP Series MF52-202F3550FBCP NTC thermistor has the following features: pearl-shape design, high accuracy, and reliable performance. Contact us today to learn more about how we can customize our NTC thermistor to meet your specific needs.

Structure and Dimensions (Unit: mm)



D (Max)	L1 ( $\pm 1.0$ )	L2 (Min)	d (+0.1)	F (+0.5)
3.0	3.5	20	0.4 customizable	2.0 customizable

Part Number Code

**MF52 - 103 F 3950 F B CP**

(1) (2) (3) (4) (5) (6) (7)

- MF52: NTC Thermistor.
- 103: Nominal Zero-Power Resistance at 25 $^{\circ}$ C: 222=2.2k $\Omega$ ; 103=10k $\Omega$ .
- F: Tolerance of Resistance: F:  $\pm 1\%$ ; H:  $\pm 3\%$ ; J:  $\pm 5\%$ .
- 3950: B Constant: 3950=3950K.
- F: Tolerance of B Constant: F:  $\pm 1\%$ .
- B: B Constant Calculation Method: A: 25 $^{\circ}$ C & 85 $^{\circ}$ C; B: 25 $^{\circ}$ C & 50 $^{\circ}$ C.
- CP: CP Wire.

Electrical Characteristics

Part Number	Resistance (25 $^{\circ}$ C) (k $\Omega$ )	B Constant (25/50 $^{\circ}$ C) (K)	B Constant (25/85 $^{\circ}$ C) (K)	Dissipation Factor (mW/ $^{\circ}$ C)	Thermal Time Constant (s)	Operating Ambient Temperature ( $^{\circ}$ C)
MF52-202F3470FBCP	2 $\pm 1\%$	3470 $\pm 1\%$	--	3	12	-40~+125
MF52-202F3550FBCP	2 $\pm 1\%$	3550 $\pm 1\%$	--	3	12	-40~+125
MF52-202F3580FBCP	2 $\pm 1\%$	3580 $\pm 1\%$	--	3	12	-40~+125
MF52-202F3950FBCP	2 $\pm 1\%$	3950 $\pm 1\%$	--	3	12	-40~+125
MF52-502F3470FBCP	5 $\pm 1\%$	3470 $\pm 1\%$	--	3	12	-40~+125
MF52-502F3950FBCP	5 $\pm 1\%$	3950 $\pm 1\%$	--	3	12	-40~+125
MF52-103F3380FBCP	10 $\pm 1\%$	3380 $\pm 1\%$	--	3	12	-40~+125
MF52-103F3435FACP	10 $\pm 1\%$	--	3435 $\pm 1\%$	3	12	-40~+125
MF52-103F3470FBCP	10 $\pm 1\%$	3470 $\pm 1\%$	--	3	12	-40~+125
MF52-103F3450FACP	10 $\pm 1\%$	--	3450 $\pm 1\%$	3	12	-40~+125
MF52-103F3950FBCP	10 $\pm 1\%$	3950 $\pm 1\%$	--	3	12	-40~+125
MF52-103F3977FACP	10 $\pm 1\%$	--	3977 $\pm 1\%$	3	12	-40~+125
MF52-103F4100FBCP	10 $\pm 1\%$	4100 $\pm 1\%$	--	3	12	-40~+125
MF52-153F3950FBCP	15 $\pm 1\%$	3950 $\pm 1\%$	--	3	12	-40~+125
MF52-203F3950FBCP	20 $\pm 1\%$	3950 $\pm 1\%$	--	3	12	-40~+125
MF52-503F3950FBCP	50 $\pm 1\%$	3950 $\pm 1\%$	--	3	12	-40~+125
MF52-503F3990FBCP	50 $\pm 1\%$	3990 $\pm 1\%$	--	3	12	-40~+125
MF52-503F4050FBCP	50 $\pm 1\%$	4050 $\pm 1\%$	--	3	12	-40~+125
MF52-104F3950FBCP	100 $\pm 1\%$	3950 $\pm 1\%$	--	3	12	-40~+125
MF52-104F3990FBCP	100 $\pm 1\%$	3990 $\pm 1\%$	--	3	12	-40~+125
MF52-104F4200FBCP	100 $\pm 1\%$	4200 $\pm 1\%$	--	3	12	-40~+125

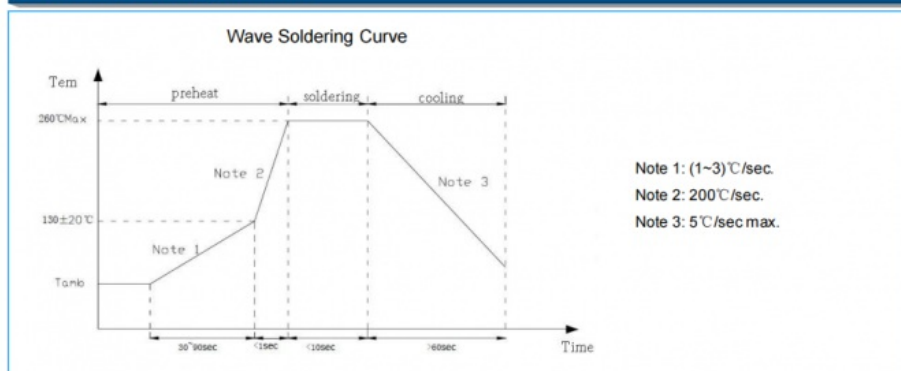
## Storage Conditions of Products

- ◆ Storage Conditions:  
Storage Temperature:  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .  
Relative Humidity:  $\leq 75\%\text{RH}$ .  
Keep Away From Corrosive Atmosphere and Sunlight.
- ◆ Period of Storage: 1 Year.

## Reliability

Test Description	Standard	Test Condition	Test Requirement
Solder Ability	IEC 60068-2-20	$245 \pm 3^{\circ}\text{C}$ , $3 \pm 0.3$ secs.	Above 95% in the terminal surface shall be with new solder
Resistance to Soldering Heat	IEC 60068-2-20	$260 \pm 5^{\circ}\text{C}$ , $10 \pm 1$ secs.	No visible damage $\Delta R_{25}/R_{25} \leq \pm 3\%$
Low Temperature Storage	IEC 60068-2-1	$-40 \pm 5^{\circ}\text{C}$ , $1000 \pm 24$ hrs.	No visible damage $\Delta R_{25}/R_{25} \leq \pm 3\%$
High Temperature Storage	IEC 60068-2-2	$125 \pm 5^{\circ}\text{C}$ , $1000 \pm 24$ hrs.	No visible damage $\Delta R_{25}/R_{25} \leq \pm 3\%$
Damp Heat, Steady State	IEC 60068-2-78	$40 \pm 2^{\circ}\text{C}$ , $90 \sim 95\%\text{RH}$ , $1000 \pm 24$ hrs.	No visible damage $\Delta R_{25}/R_{25} \leq \pm 3\%$

## Recommended Welding Conditions



## Heavy Soldering Conditions

Project	Condition
Soldering Iron Head Temperature	$360^{\circ}\text{C}$ (max)
Weld Time	3 secs. (max)
Distance Between Welding Position and Coating Layer	2 mm (min)

## Packing Specification

Part Number	Quantity
MF52-CP Series	500 pcs/bag

## Warning



- ◆ SOCAT owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property.
- ◆ SOCAT reserves the right to make changes without further notice to any products herein.
- ◆ SOCAT makes no warranties, representations or warranties as to the fitness of its products for any particular purpose, and disclaims any liability.
- ◆ The parameters provided in the SOCAT datasheet specification may vary from application to application, and the actual performance may vary over time. All operating parameters must be verified by the customer's technical expert before application.
- ◆ Any and all responsibilities and liabilities are disclaimed if any item under this notice of warning is not complied with.

## Support and Services:

Our NTC thermistors come with a wide range of technical support and services to ensure that you can get the most out of your product. We offer:

Expert technical support to help you with any questions or issues you may have.

Customized solutions to fit your specific needs.

Product documentation and datasheets to help you understand the product and its capabilities.

Training and education resources to help you learn more about the product and its applications.

Repair and calibration services to ensure that your product is always functioning at its best.

With our comprehensive technical support and services, you can trust that your NTC thermistor will always perform at the highest level.

## Packing and Shipping:

### Product Packaging:

Each NTC thermistor will be packaged in an individual anti-static bag.

The anti-static bags will be placed in a protective box for shipping.

### Shipping:

Standard shipping will be used for all orders.

Orders will be processed and shipped within 2 business days.

Shipping times will vary depending on the destination.

Customers will receive a tracking number once the order has been shipped.

In the case of any shipping issues, please contact our customer service team for assistance.

## FAQ:

### Q1: What is the Brand Name of this NTC Thermistor?

A1: The Brand Name of this NTC Thermistor is SOCAY.

### Q2: What is the Model Number of this NTC Thermistor?

A2: The Model Number of this NTC Thermistor is MF52-CP Series.

### Q3: Where is this NTC Thermistor manufactured?

A3: This NTC Thermistor is manufactured in SHENZHEN GUANGDONG, CHINA.

### Q4: What certifications does this NTC Thermistor have?

A4: This NTC Thermistor has UL, REACH, ROHS, ISO certifications.

### Q5: What is the minimum order quantity for this NTC Thermistor?

A5: The minimum order quantity for this NTC Thermistor is 500PCS.

### Q6: What is the price of this NTC Thermistor?

A6: The price of this NTC Thermistor is negotiable.

### Q7: What are the packaging details for this NTC Thermistor?

A7: The packaging details for this NTC Thermistor is Bulk.

### Q8: What is the delivery time for this NTC Thermistor?

A8: The delivery time for this NTC Thermistor is 5-7 days.

### Q9: What are the payment terms for this NTC Thermistor?

A9: The payment terms for this NTC Thermistor are T/T, Paypal, Western Union, Money gram.

### Q10: What is the supply ability of this NTC Thermistor?

A10: The supply ability of this NTC Thermistor is 250,000PCS Per Month.



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