



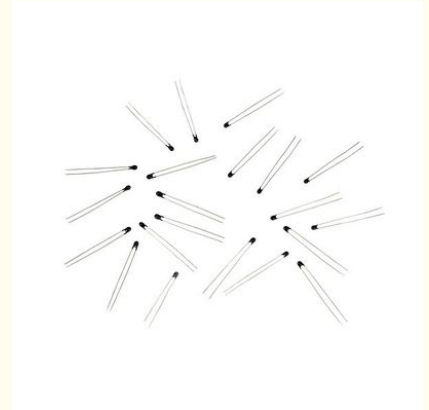
## MF52-CP Serise MF52-502F3470FBCP RoHS Compliant Pearl Shape NTC Thermistor For Ambient Temperature -40 ~ 125

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: MF52-502F3470FBCP
- 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

- Features: MF52 Pearl-Shape Temperature Measurement NTC Thermistor
- Standard: RoHS & Halogen Free (HF) Compliant
- Resistance(25 )(k $\Omega$ ):  $5 \pm 1\%$
- Operating Ambient Temperature( ): -40 ~ +125
- Application: Temperature Measurement
- Dissipation Factor(mW/ :3
- B Constant(25/85 )(K): --
- Thermal Time Constant(s): 12
- Highlight: **Ambient Temperature NTC Thermistor, MF52-CP Serise NTC Thermistor, RoHS Compliant NTC Thermistor**



### More Images



## Product Description

### Product Description:

The NTC Thermistor product from Co, Ltd is a high-quality and reliable temperature sensor that is ideal for a wide range of applications. This product features a B Constant (25/50 )(K) of  $3470\pm1\%$ , which ensures accurate and consistent temperature readings. In addition, the foot length of this product is customizable, allowing for easy integration into a variety of systems and applications.

The NTC Thermistor product belongs to the MF52-CP Series MF52-502F3470FBCP, which is known for its excellent performance and reliability. This series of thermistors is designed to offer fast and accurate temperature sensing, with a thermal time constant of just 12 seconds. This means that the product can quickly respond to changes in temperature, making it ideal for applications that require rapid temperature sensing and control.

As a leading manufacturer of thermistors and other temperature sensing products, Co, Ltd is committed to providing its customers with the highest quality products and services. The company's NTC Thermistor product is designed to meet the needs of a wide range of industries and applications, from automotive and medical to industrial and consumer electronics.

In summary, the NTC Thermistor product from Co, Ltd is a high-quality and reliable thermistor temperature sensor that offers accurate and fast temperature sensing capabilities. With its customizable foot length, excellent performance, and reliable design, this product is an ideal choice for a wide range of temperature sensing applications.

### Features:

Product Name: NTC Thermistor

Part Number: MF52-502F3470FBCP

Features: MF52 Pearl-Shape Temperature Measurement NTC Thermistor

Negative Temperature Coefficient Thermistor

Thermistor Temperature Sensor

B Constant(25/85 )(K): --

B Constant (25/50 )(K):  $3470\pm1\%$

Thermal Time Constant(s): 12

### Technical Parameters:

Features:	MF52 Pearl-Shape Temperature Measurement NTC Thermistor
B Constant (25/50 )(K):	$3470\pm1\%$
Thermal Time Constant(s):	12
Brand Name:	SOCAY
Part Number:	MF52-502F3470FBCP
Standard:	RoHS & Halogen Free (HF) Compliant
Type:	MF52-CP Serise
Dissipation Factor(mW/ :	3
B Constant(25/85 )(K):	--
Material:	CP Wire

This NTC Thermistor product is a thermal resistor element that is commonly used as an NTC temperature probe or thermometric resistor.

### Applications:

The SOCAY MF52-CP Series MF52-502F3470FBCP NTC Thermistor is a negative temperature coefficient thermistor that is designed to measure temperature variations in a variety of applications. With its thermal time constant of 12 seconds, this thermistor can be used in both rapid and slow temperature sensing scenarios, making it a versatile and reliable choice for a range of different industries.

The MF52-CP Series MF52-502F3470FBCP NTC Thermistor can be used in a variety of different product application occasions and scenarios. For example, it is commonly used in temperature control systems for household appliances such as refrigerators and air conditioners. In these scenarios, the thermistor is used to measure the temperature inside the appliance and control the cooling system accordingly.

Another common use for the MF52-CP Series MF52-502F3470FBCP NTC Thermistor is in automotive temperature sensing systems. In this application, the thermistor is used to measure the temperature of the engine coolant, which helps to prevent overheating and other issues that can lead to engine damage. Additionally, this thermistor is frequently used in industrial control systems for temperature measurement and regulation.

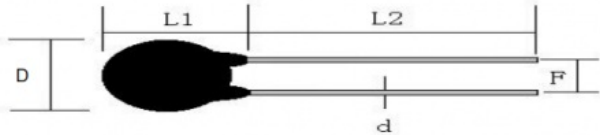
Thanks to its RoHS & Halogen Free (HF) compliance, the MF52-CP Series MF52-502F3470FBCP NTC Thermistor is a reliable and safe choice for a range of different industries. It has also been certified by UL, REACH, ROHS, and ISO, ensuring that it meets the highest standards for quality and safety.

The MF52-CP Series MF52-502F3470FBCP NTC Thermistor is available for purchase with a minimum order quantity of 500 pieces. The

price is negotiable, and the packaging details are bulk. Delivery time is typically 5-7 days, and payment terms include T/T, Paypal, Western Union, and Money gram. With a supply ability of 250,0000 pieces per month, the MF52-CP Series MF52-502F3470FBCP NTC Thermistor is a reliable and cost-effective choice for any temperature sensing application.

Overall, the MF52-CP Series NTC Thermistor from SOCAT is a versatile and reliable choice for a wide range of different temperature sensing applications. Whether you are looking for a thermistor for use in household appliances, automotive temperature sensing systems, or industrial control systems, the MF52-CP Series MF52-502F3470FBCP NTC Thermistor is an excellent choice. With its customizable foot length and excellent thermal time constant, this thermistor is designed to provide accurate and dependable temperature sensing for any application.

Customization:

Structure and Dimensions (Unit: mm)				
				
D (Max)	L1 (±1.0)	L2 (Min)	d (+0.1)	F (+0.5)
3.0	3.5	20	0.4 customizable	2.0 customizable

Part Number Code						
<b>MF52</b>	<b>-</b>	<b>103</b>	<b>F</b>	<b>3950</b>	<b>F</b>	<b>B CP</b>
(1)		(2)	(3)	(4)	(5)	(6) (7)
<p>(1) MF52: NTC Thermistor.</p> <p>(2) 103: Nominal Zero-Power Resistance at 25℃: 222=2.2kΩ; 103=10kΩ.</p> <p>(3) F: Tolerance of Resistance: F: ±1%; H: ±3%; J: ±5%.</p> <p>(4) 3950: B Constant: 3950=3950K.</p> <p>(5) F: Tolerance of B Constant: F: ±1%.</p> <p>(6) B: B Constant Calculation Method: A: 25℃ &amp; 85℃; B: 25℃ &amp; 50℃.</p> <p>(7) CP: CP Wire.</p>						

Electrical Characteristics						
Part Number	Resistance (25℃) (kΩ)	B Constant (25/50℃) (K)	B Constant (25/85℃) (K)	Dissipation Factor (mW/℃)	Thermal Time Constant (s)	Operating Ambient Temperature (℃)
MF52-202F3470FBCP	2±1%	3470±1%	--	3	12	-40~+125
MF52-202F3550FBCP	2±1%	3550±1%	--	3	12	-40~+125
MF52-202F3580FBCP	2±1%	3580±1%	--	3	12	-40~+125
MF52-202F3950FBCP	2±1%	3950±1%	--	3	12	-40~+125
MF52-502F3470FBCP	5±1%	3470±1%	--	3	12	-40~+125
MF52-502F3950FBCP	5±1%	3950±1%	--	3	12	-40~+125
MF52-103F3380FBCP	10±1%	3380±1%	--	3	12	-40~+125
MF52-103F3435FACP	10±1%	--	3435±1%	3	12	-40~+125
MF52-103F3470FBCP	10±1%	3470±1%	--	3	12	-40~+125
MF52-103F3450FACP	10±1%	--	3450±1%	3	12	-40~+125
MF52-103F3950FBCP	10±1%	3950±1%	--	3	12	-40~+125
MF52-103F3977FACP	10±1%	--	3977±1%	3	12	-40~+125
MF52-103F4100FBCP	10±1%	4100±1%	--	3	12	-40~+125
MF52-153F3950FBCP	15±1%	3950±1%	--	3	12	-40~+125
MF52-203F3950FBCP	20±1%	3950±1%	--	3	12	-40~+125
MF52-503F3950FBCP	50±1%	3950±1%	--	3	12	-40~+125
MF52-503F3990FBCP	50±1%	3990±1%	--	3	12	-40~+125

MF52-503F4050FBCP	50±1%	4050±1%	--	3	12	-40~+125
MF52-104F3950FBCP	100±1%	3950±1%	--	3	12	-40~+125
MF52-104F3990FBCP	100±1%	3990±1%	--	3	12	-40~+125
MF52-104F4200FBCP	100±1%	4200±1%	--	3	12	-40~+125

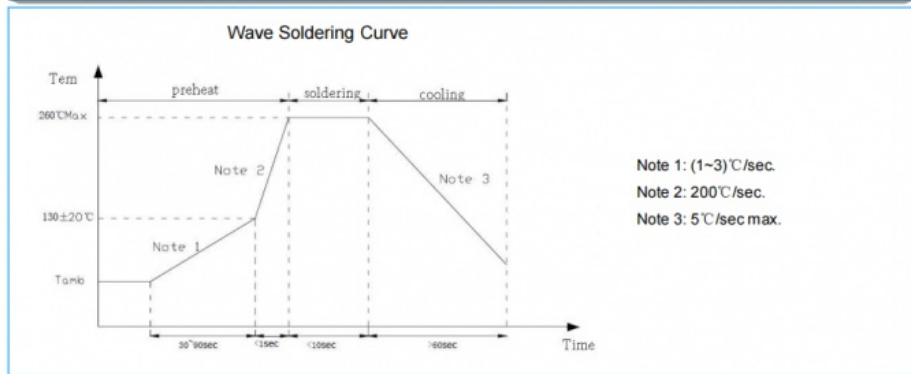
#### Storage Conditions of Products

- ◆ Storage Conditions:  
Storage Temperature: -10℃ ~ +40℃.  
Relative Humidity: ≤75%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 ± 3℃, 3 ± 0.3 secs.	Above 95% in the terminal surface shall be with new solder
Resistance to Soldering Heat	IEC 60068-2-20	260±5℃, 10±1 secs.	No visible damage $\Delta R_{25}/R_{25} \leq \pm 3\%$
Low Temperature Storage	IEC 60068-2-1	-40±5℃, 1000±24 hrs.	No visible damage $\Delta R_{25}/R_{25} \leq \pm 3\%$
High Temperature Storage	IEC 60068-2-2	125±5℃, 1000±24 hrs.	No visible damage $\Delta R_{25}/R_{25} \leq \pm 3\%$
Damp Heat, Steady State	IEC 60068-2-78	40±2℃, 90~95%RH, 1000±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℃ (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



- ◆ SOCAY owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property.
- ◆ SOCAY reserves the right to make changes without further notice to any products herein.
- ◆ SOCAY 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 SOCAY 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 are high-quality temperature sensing devices that offer exceptional accuracy and reliability. We provide comprehensive technical support and services to ensure that our customers get the most out of their thermistors. Our team of experts is

available to answer any questions you may have about our products, from installation and configuration to troubleshooting and repair. We also offer custom design services to meet the unique needs of your application. Additionally, we provide calibration and testing services to ensure that your thermistors are performing at peak capacity. Contact us to learn more about our technical support and services.

## Packing and Shipping:

### Product Packaging:

The NTC Thermistor product will be packaged in a sturdy cardboard box with foam padding to ensure safe delivery. The product will be placed in a plastic bag to protect it from moisture and other environmental factors. The box will also include a product manual and any necessary documentation.

### Shipping:

The NTC Thermistor product will be shipped via a reliable courier service. The shipping cost will be determined based on the customer's location and preferred shipping method. The product will be shipped within 2-3 business days of order confirmation. Customers will receive a tracking number once the product has been shipped.

## FAQ:

### Frequently Asked Questions - NTC Thermistor (MF52-CP Series)

**Q: What is the brand name of this NTC Thermistor?**

A: The brand name of this NTC Thermistor is SOCAY.

**Q: What is the model number of this NTC Thermistor?**

A: The model number of this NTC Thermistor is MF52-CP Series.

**Q: Where is this NTC Thermistor manufactured?**

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

**Q: What certifications does this NTC Thermistor have?**

A: This NTC Thermistor is UL, REACH, ROHS, ISO certified.

**Q: What are the payment terms for this NTC Thermistor?**

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

**Q: What is the minimum order quantity for this NTC Thermistor?**

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

**Q: What is the price of this NTC Thermistor?**

A: The price of this NTC Thermistor is negotiable.

**Q: What is the packaging detail for this NTC Thermistor?**

A: The packaging detail for this NTC Thermistor is bulk.

**Q: What is the delivery time for this NTC Thermistor?**

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

**Q: What is the supply ability for this NTC Thermistor?**

A: The supply ability for this NTC Thermistor is 250,000PCS per month.



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