



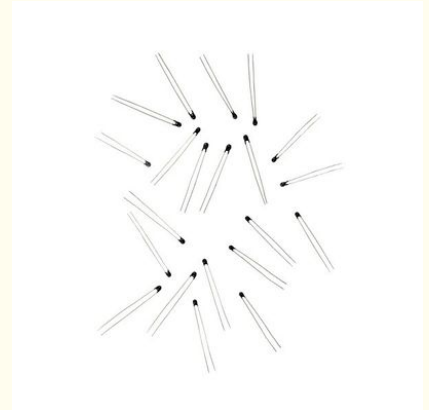
## MF52-CP Serise MF52-103F3380FBCP Pearl Shape Temperature Measurement Ntc / Ntc Thermistor

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: MF52-103F3380FBCP
- 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
- Dissipation Factor(mW/ :3
- Application: Temperature Measurement
- B Constant (25/50 )(K): 3380±1%
- Resistance(25 )(kΩ): 10±1%
- Material: CP Wire
- B Constant(25/85 )(K): --
- Highlight: **MF52-103F3380FBCP, Pearl Shape Ntc Thermistor, Temperature Measurement Ntc Thermistor**



### More Images



## Product Description

### Product Description:

The NTC Thermistor boasts an impressive dissipation factor of 3mW/ , ensuring accurate and consistent temperature readings. With a resistance of  $10\pm 1\%$  at 25 , you can rely on this thermistor to provide precise measurements every time. The MF52-CP Serie NTC Thermistor is a versatile product that can be used in a variety of applications. Whether you need to measure the temperature of your electronic devices or monitor the temperature of your home appliances, this thermistor is the perfect solution. With its high sensitivity and fast response time, the NTC Thermistor is a reliable and efficient temperature sensor that will help you maintain the optimal temperature for your equipment. Whether you're a hobbyist or a professional, this product is sure to meet all your temperature measurement needs. So if you're looking for a high-quality NTC Thermistor, look no further than the MF52-CP Serie. With its superior performance and reliable accuracy, this product is sure to exceed your expectations.

### Features:

Product Name: NTC Thermistor  
Operating Ambient Temperature( ): -40 ~ +125  
Dissipation Factor(mW/ ): 3  
B Constant (25/50 )(K):  $3380\pm 1\%$   
Features: MF52 Pearl-Shape Temperature Measurement NTC Thermistor  
Enterprise Type: Co,Ltd  
This product is an NTC thermally sensitive device, also referred to as an NTC thermistor or NTC temperature probe.

### Technical Parameters:

Thermometric Resistor Type:	NTC
Part Number:	MF52-103F3380FBCP
B Constant (25/85 )(K):	--
B Constant (25/50 )(K):	$3380\pm 1\%$
Thermal Time Constant(s):	12
Features:	MF52 Pearl-Shape Temperature Measurement NTC Thermistor
Operating Ambient Temperature( ):	-40 ~ +125
Standard:	RoHS & Halogen Free (HF) Compliant
Type:	MF52-103F3380FBCP
Foot Length:	Customizable
Enterprise Type:	Co, Ltd

### Applications:

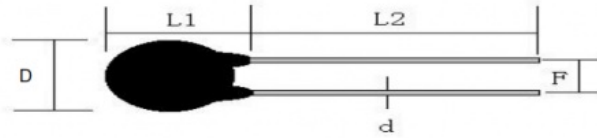
Designed and manufactured in SHENZHEN GUANGDONG,CHINA, this thermosensitive transducer is the perfect choice for a wide range of temperature sensing applications. With a resistance of  $10\pm 1\%$  at 25 , and an operating ambient temperature range of -40 ~ +125 , this thermometric resistor is ideal for everything from household appliances and automotive systems to medical equipment and more. But that's not all - our MF52-CP Series MF52-103F3380FBCP thermistors are also UL, REACH, ROHS, and ISO certified, so you can rest assured that you are getting a safe and reliable product that meets all necessary industry standards. And with a minimum order quantity of just 500PCS, our thermistors are accessible to businesses of all sizes. Plus, our flexible payment terms (including T/T, Paypal, Western Union, and Money gram) and negotiable pricing make it easy to get the thermistor you need without breaking the bank. Whether you need a custom foot length or a thermal time constant of 12 seconds, the SOCAY MF52-CP Series MF52-103F3380FBCP NTC thermistor is the perfect solution for your temperature sensing needs. So why wait? Contact us today to place your order and experience the outstanding quality and performance of our thermometric resistor for yourself!

### Customization:

Our NTC Thermistors are UL, REACH, ROHS, and ISO certified, ensuring their safety and quality. They are also customizable, with foot lengths tailored to your specific needs. Our minimum order quantity is 500PCS, and our supply ability is 250,000PCS per month. We offer negotiable pricing, with payment

terms including T/T, Paypal, Western Union, and Money Gram.  
Our packaging details include bulk, and we have a delivery time of 5-7 days. Place your order today, and discover the benefits of SOCAP's customizable NTC Thermistors!

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

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

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

- (1) MF52: NTC Thermistor.  
(2) 103: Nominal Zero-Power Resistance at 25°C: 222=2.2kΩ; 103=10kΩ.  
(3) F: Tolerance of Resistance: F: ±1%; H: ±3%; J: ±5%.  
(4) 3950: B Constant: 3950=3950K.  
(5) F: Tolerance of B Constant: F: ±1%.  
(6) B: B Constant Calculation Method: A: 25°C & 85°C; B: 25°C & 50°C.  
(7) CP: CP Wire.

Electrical Characteristics

Part Number	Resistance (25°C) (kΩ)	B Constant (25/50°C) (K)	B Constant (25/85°C) (K)	Dissipation Factor (mW/°C)	Thermal Time Constant (s)	Operating Ambient Temperature (°C)
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

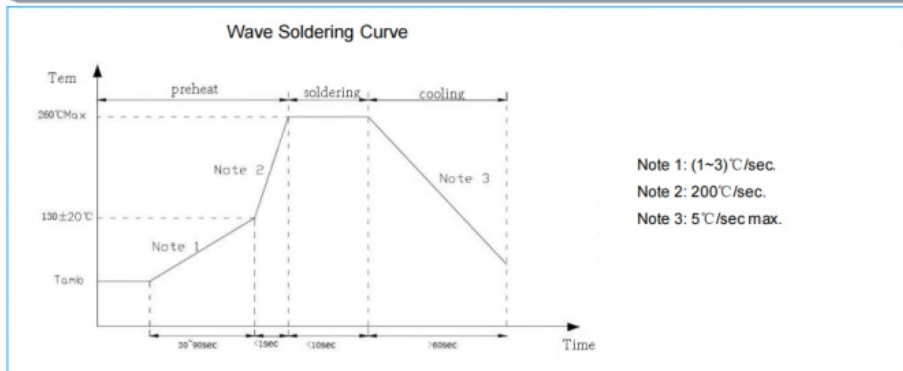
### Storage Conditions of Products

- ◆ Storage Conditions:  
Storage Temperature:  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ .  
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



- ◆ 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 Thermistor product comes with comprehensive technical support and services to ensure the optimal performance of your application. Our team of experts can provide guidance on product selection, design, and implementation, as well as troubleshooting and issue resolution.

We also offer customization services to tailor our NTC Thermistors to your specific requirements, including temperature range, resistance values, and packaging options.

In addition, we provide comprehensive documentation, including datasheets, application notes, and user manuals, to assist with product integration and usage.

Our commitment to quality and customer satisfaction extends to our post-sales support, including warranty coverage and repair services as needed.



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