



MF52-CP Series RoHS Halogen Free HF Compliant Temperature Measurement Ntc / Thermistor

Our Product Introduction

for more products please visit us on socaydiode.com

Basic Information

- Place of Origin: SHENZHEN GUANGDONG, CHINA
- Brand Name: SOCAY
- Certification: UL, REACH, ROHS, ISO
- Model Number: MF52-202F3580FBCP
- 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

- Enterprise Type: Co., Ltd
- Thermal Time Constant(s): 12
- Resistance(25)(k Ω): $2 \pm 1\%$
- Material: CP Wire
- Type: MF52-202F3580FBCP
- Operating Ambient Temperature(): $-40 \sim +125$
- Standard: RoHS & Halogen Free (HF) Compliant
- Dissipation Factor(mW/ :3
- Highlight: **MF52-CP Series Ntc Thermistor,
Halogen Free Ntc Thermistor,
HF Compliant Ntc Thermistor**



More Images



Product Description

Product Description:

The NTC thermistor is made from CP wire material and has a B constant of (25/85)(K) --. It has a resistance of $2\pm 1\%$ at 25 . The NTC thermistor is primarily used for temperature measurement applications. It has an operating ambient temperature range of $-40 \sim +125$, which makes it suitable for use in a wide range of temperature sensing applications.

The NTC thermistor is a highly accurate and reliable temperature sensor. Its small size, fast response time, and low cost make it an ideal choice for a wide range of temperature sensing applications. It is commonly used in temperature control systems, medical devices, automotive electronics, and industrial equipment.

The NTC thermistor is a passive device, which means that it does not require any external power source. It works by changing its resistance in response to changes in temperature. When the temperature changes, the resistance of the NTC thermistor changes, which can be measured using a simple circuit. The change in resistance is proportional to the change in temperature, which allows the NTC thermistor to be used as a highly accurate temperature sensor.

The NTC thermistor is a versatile and reliable temperature sensor that is widely used in a variety of applications. Its small size, fast response time, and low cost make it an ideal choice for temperature sensing applications where accuracy and reliability are important. Whether you are building a temperature control system, a medical device, or an industrial application, the NTC thermistor is an excellent choice for your temperature sensing needs.

Features:

Product Name: NTC Thermistor

Enterprise Type: Co,Ltd

Type: MF52-202F3580FBCP

Resistance(25)(k Ω): $2\pm 1\%$

Foot Length: Customizable

Standard: RoHS & Halogen Free (HF) Compliant

Features:

Thermometric Resistor

Thermosensitive Transducer

Thermal Resistive Temperature Sensor

Technical Parameters:

Parameter	Value
Enterprise Type	Co,Ltd
Brand Name	SOCAY
Type	MF52-202F3580FBCP
Resistance(25)(k Ω)	$2\pm 1\%$
Material	CP Wire
Thermal Time Constant(s)	12
Standard	RoHS & Halogen Free (HF) Compliant
B Constant (25/50)(K)	$3580\pm 1\%$
Operating Ambient Temperature()	$-40 \sim +125$
Foot Length	Customizable

This product is a thermosensitive transducer, specifically a Negative Temperature Coefficient (NTC) thermistor.

Applications:

The SOCAY MF52-CP Series NTC Thermistor is a thermal resistor element that is used as a thermal resistive temperature sensor for temperature measurement. This product is made of CP wire and has a thermal time constant of 12 seconds.

The NTC Thermistor is a temperature-sensitive resistor that is used to measure temperature in various applications. It can be used in a variety of scenarios, such as in temperature control systems, temperature measurement in air conditioning systems, and temperature measurement in refrigeration systems. The MF52-CP Series NTC Thermistor is a pearl-shaped device that is designed to provide accurate temperature measurements.

This product is made in SHENZHEN GUANGDONG,CHINA and has certifications including UL,REACH,ROHS,ISO. The minimum order quantity for this product is 500PCS, and the price is negotiable. It comes in bulk packaging and has a delivery time of 5-7 days. Payment terms include T/T, Paypal, Western Union, and Money gram. The supply ability of this product is 250,000PCS per month.

Brand Name: SOCAY

Model Number: MF52-202F3580FBCP

Certification: UL,REACH,ROHS,ISO

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

Part Number: MF52-202F3580FBCP

Standard: RoHS & Halogen Free (HF) Compliant

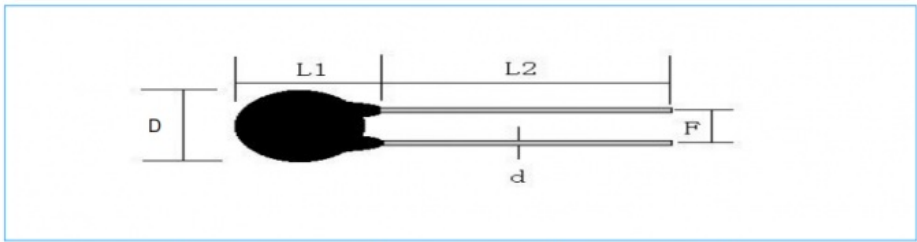
Features: MF52 Pearl-Shape Temperature Measurement NTC Thermistor

Foot Length: Customizable

Material : CP Wire

SOCAY NTC Thermistor Temperature Sensor is a type of Negative Temperature Coefficient Resistor which measures temperature. Our product has been certified by UL, REACH, ROHS, and ISO. The minimum order quantity is 500PCS and the price is negotiable. The packaging details are bulk and the delivery time is 5-7 days. We accept payment terms such as T/T, Paypal, Western Union, and Money gram. Our supply ability is 250,000PCS Per Month. Part Number: MF52-202F3580FBCP. Our product is RoHS & Halogen Free (HF) Compliant and features a MF52 Pearl-Shape Temperature Measurement NTC Thermistor. The foot length is customizable and the material is CP Wire.

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

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

(2) 103: Nominal Zero-Power Resistance at 25°C: 222=2.2kΩ; 103=10kΩ.

(4) 3950: B Constant: $3950 = 3950K$.

(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℃) (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

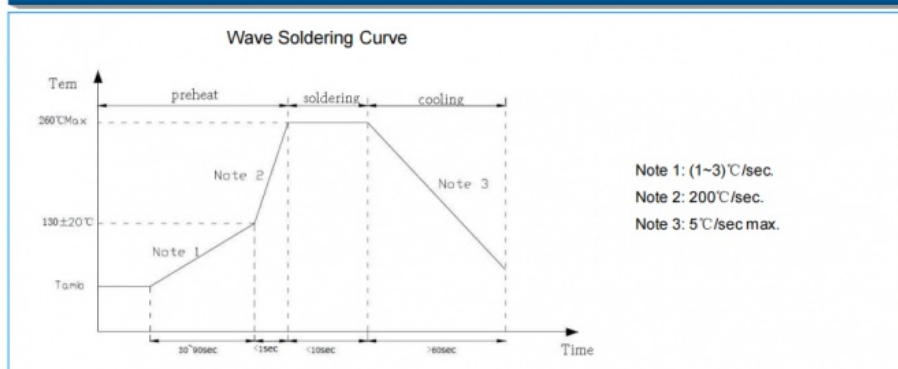
Storage Conditions of Products

- ◆ 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 △R25/R25 ≤ ±3%
Low Temperature Storage	IEC 60068-2-1	-40±5℃, 1000±24 hrs.	No visible damage △R25/R25 ≤ ±3%
High Temperature Storage	IEC 60068-2-2	125±5℃, 1000±24 hrs.	No visible damage △R25/R25 ≤ ±3%
Damp Heat, Steady State	IEC 60068-2-78	40±2℃, 90~95%RH, 1000±24 hrs.	No visible damage △R25/R25 ≤ ±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



- ◆ SOCAP owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property.
- ◆ SOCAP reserves the right to make changes without further notice to any products herein.
- ◆ SOCAP 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 SOCAP 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 extensive technical support and services to ensure its optimal performance and longevity. Our team of experts is available to provide assistance with product selection, installation, and troubleshooting. We also offer calibration services to ensure accurate temperature measurements. In addition, we provide custom engineering solutions to meet specific application requirements. Our commitment to customer satisfaction extends beyond the sale of the product and our team is available to address any concerns or issues that may arise.

Packing and Shipping:

Product Packaging:

The NTC Thermistor product will be packed in a secure and sturdy cardboard box to ensure safe transportation.

The product will be wrapped in bubble wrap to prevent any damage during transit.

The packaging will also include a user manual and any other relevant documents.

Shipping:

The NTC Thermistor product will be shipped via a reliable and trusted courier service.

The estimated shipping time will depend on the destination and shipping option selected.

Customers will receive a tracking number to track their package during transit.

FAQ:

Q1: What is the brand name of this thermistor?

A1: The brand name is SOCAP.

Q2: What is the model number of this thermistor?

A2: The model number is MF52-CP Series.

Q3: Where is the place of origin for this thermistor?

A3: The place of origin is SHENZHEN GUANGDONG, CHINA.

Q4: What certifications does this thermistor have?

A4: This thermistor has UL, REACH, ROHS, ISO certifications.

Q5: What is the minimum order quantity for this product?

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

Q6: Is the price negotiable?

A6: Yes, the price is negotiable.

Q7: What is the packaging details for this product?

A7: The packaging details for this product is bulk.

Q8: What is the delivery time for this product?

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

Q9: What are the payment terms for this product?

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

Q10: What is the supply ability for this product?

A10: The supply ability for this product is 250,000PCS per month.

4/F, Block C, HeHengXing Science & Technology Park, 19 MinQing Road, LongHua District, Shenzhen City,
GuangDong Province, China