



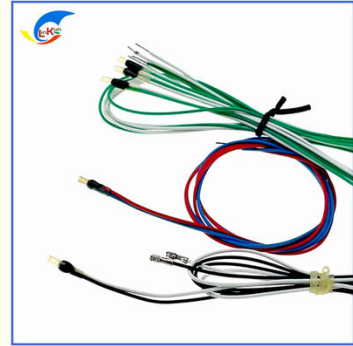
120 Ceramic PTC Thermistor Sensor For Motor Temperature Protection And Control High Precision Thermistor

Our Product Introduction

for more products please visit us on lk-thermistor.com

Basic Information

- Place of Origin: China
- Brand Name: lin kun
- Certification: UL CCC RoHS
- Model Number: MZ6-120-DS PTC thermistor for motor
- Minimum Order Quantity: 100pcs
- Price: 1-2 USD/PCS
- Packaging Details: Bulk, 100pcs per bag
- Delivery Time: 10-20 days
- Payment Terms: T/T, Western Union,
- Supply Ability: 100,000 0pieces/month

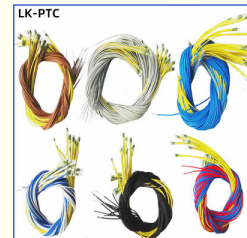
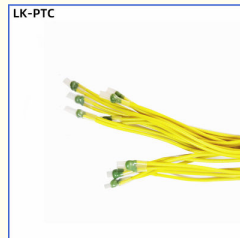
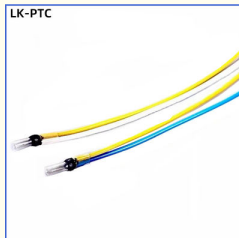


Product Specification

- Series: PTC Thermistor For Motor
- Output Type Wire Type: (three Cores)
- Material: Wire
- Standard Length: 520mm
- Package/casing: Casing Type
- Accuracy: ± 5
- Operating Temperature: 120()
- Temperature Measurement Range: 60 -150
- Installation Type: Welding
- High Light: Single PTC Thermistor Sensor, Triple PTC Thermistor Sensor, Silicone Coating PTC Thermistor
- Highlight: Ceramic PTC Thermistor



More Images



Product Description

120 Ceramic PTC Thermistor Sensor For Motor Temperature Protection And Control, High Precision Thermistor

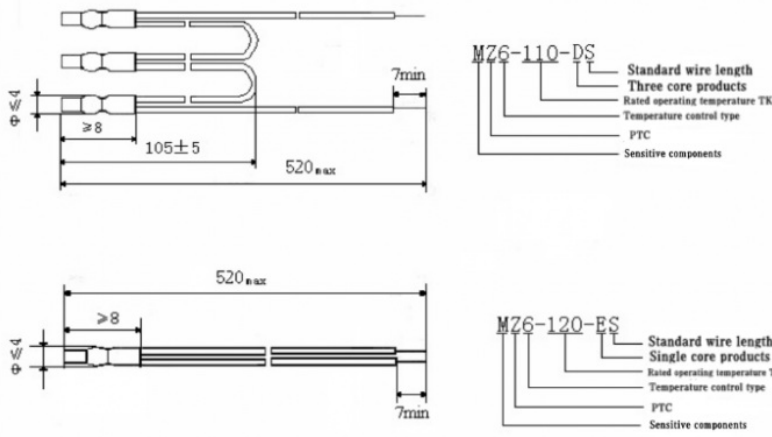
1. Scope of application:

The MZ6 type PTC thermistor of Dongguan Linkun Electronic Technology Co., Ltd. is one of our company's main PTC products. It has been used in many motor customers in conjunction with our company's PT100 platinum resistance temperature sensor, mainly used in three-phase

Our Pr

motors, Temperature protection and temperature measurement and control of servo motors.

2. Overall dimensions and structure (unit: mm)



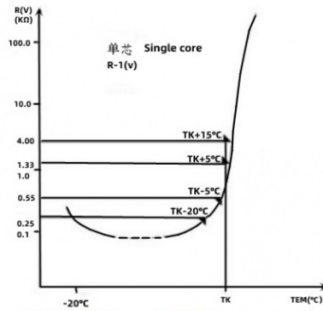
Number	Name	Material
1	Shrink sleeve	Polyvinylidene fluoride
2	PTC thermistor	BaTiO3 ceramics
3	Wire	Fluorine plastic high temperature wire

3. Wire color marking core (the middle connecting wire for three cores is yellow)

Tk Temperature (°C)	60	70	80	90	100	105	110	115	120	125
Thread color	White	White	White	Green	Red	Blue	Brown	Blue	Ash	Red
Thread color	Ash	Brown	White	Green	Red	Ash	Brown	Green	Ash	Green

Tk temperature (°C)	130	135	140	145	150	155	160	165	170	180
Thread color	Blue	Red	White	White	Black	Blue	Blue	Blue	White	White
Thread color	Blue	Black	Blue	Black	Black	Black	Red	Brown	Green	Red

4. Resistor temperature characteristic curve representative diagram



在 $-20^{\circ}\text{C} \sim \text{TK}-20^{\circ}\text{C}$ 时, $R < 0.25\text{k}\Omega$;
 在 $\text{TK}-5^{\circ}\text{C}$ 时, $R < 0.55\text{k}\Omega$;
 在 $\text{TK}+5^{\circ}\text{C}$ 时, $R > 1.33\text{k}\Omega$;
 在 $\text{TK}+15^{\circ}\text{C}$ 时, $R > 4\text{k}\Omega$ 。

5. Electrical and other properties

Project	Specification		Experiment method
	Single core	Three cores	
Maximum working voltage	$U_{\text{max}}=25\text{V}$	$U_{\text{max}}=25\text{V}$	
Rated operating temperature	TK=60 -180	TK=60 -180	
TK tolerance	± 5	± 5	
Repeatability of TK	$\Delta T = \pm 0.5$	$\Delta T = \pm 0.5$	
Room temperature resistance value	$R_{25} \leq 100\Omega$	$R_{25} \leq 300\Omega$	Measure with a digital multimeter at room temperature of 25 ± 1 . Measuring voltage $\leq \text{DC}2.5\text{V}$.
TK-5 resistance value	$R_{\text{TK}-5} \leq 100\Omega$	$R_{\text{TK}-5} \leq 1650\Omega$	In a high temperature oil tank, use a digital multimeter to measure. Measuring voltage $\leq \text{DC}2.5\text{V}$.

TK+5 resistance value	R TK+5≥1330Ω	R TK+5≥3990Ω	In a high temperature oil tank, use a digital multimeter to measure. Measuring voltage ≤ DC2.5V.
TK+15 resistance value	R TK+15≥4KΩ	R TK+15≥12KΩ	In a high temperature oil tank, use a digital multimeter to measure. Measuring voltage ≤ DC2.5V.
TK action time	TD 5S	TD 5S	Use a timer to measure.
Dielectric strength	2.5KV	2.5KV	Measure with high voltage tester
maximum allowable storage temperature	160	160	
Minimum allowable storage temperature	(-25)	(-25)	
Wire color markings	See this specification		
Weight	3g	3g	
Exterior	The wires have no scratches or cracks, and the shrink sleeve has no burrs.		Visual inspection.

6.Packaging

(1) Use plastic packaging. 100 pieces (bag)

(2) Put the plastic bag into the packaging box. 5000 pieces/50 bags/box

7.Quality acceptance criteria

Inspection sampling shall be carried out in accordance with GB/T2828.1 "Counting Sampling Inspection Procedure, Part 1: Batch-by-batch Inspection Sampling Plan Retrieved by Acceptance Quality AQL", a normal inspection sampling plan.

Number	Test items	Index number	Check level	AQL value	Remark
1	Exterior	3.2		0.65	
2	Dimensions	3.1		0.65	
3	Room temperature resistance value	3.2		0.65	
4	Rated operating temperature	3.2	S-3	2.5	
5	TK-5 resistance value	3.2	S-3	2.5	
6	TK+5 resistance value	3.2	S-3	2.5	
7	TK+15 resistance value	3.2	S-3	2.5	
8	TK action time	3.2	S-3	2.5	
9	Dielectric strength	3.2	S-3	2.5	

8. Usage methods and precautions

A: How to use:

Embed the thermistor inside the coil, press and tie it tightly and then dip it into paint together with the coil (do not hit it hard to avoid damage)

B: Notes:

(1) Do not forcefully squeeze during installation to avoid damage;

(2) The wire should not bear large pulling force;

(3) Do not exceed the maximum operating voltage.

9.PTC motor protection product specification comparison table

Sensor	TK value	Resistance (TK-5)	Resistance (TK+5)	Resistance (TK+15)
MZ6-100-DS	100	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-110-DS	110	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-120-DS	120	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-130-DS	130	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-140-DS	140	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-150-DS	150	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-155-DS	155	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-160-DS	160	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-170-DS	170	≤1650Ω	≥3990Ω	≥12KΩ
MZ6-180-DS	180	≤1650Ω	≥3990Ω	≥12KΩ

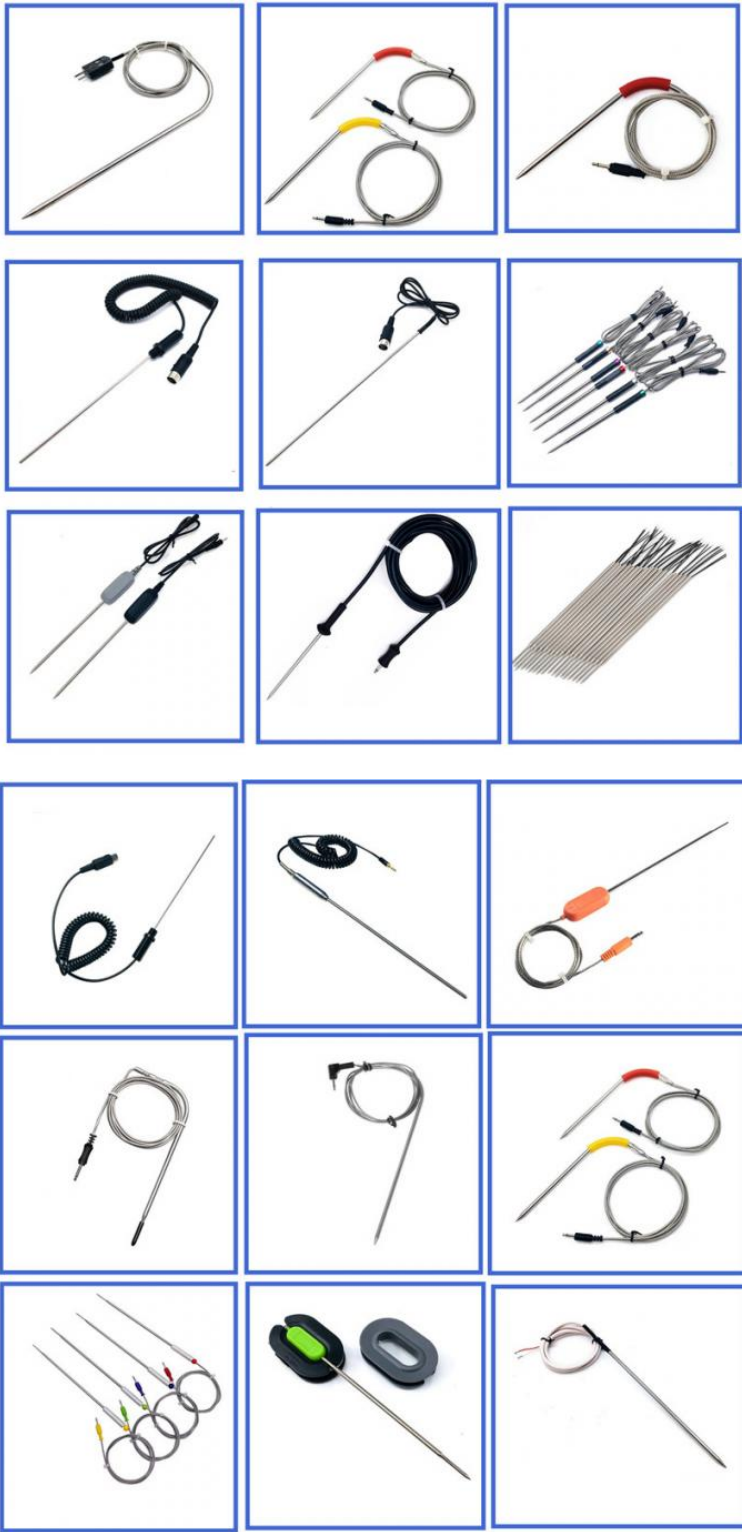
Scenes To Be Used

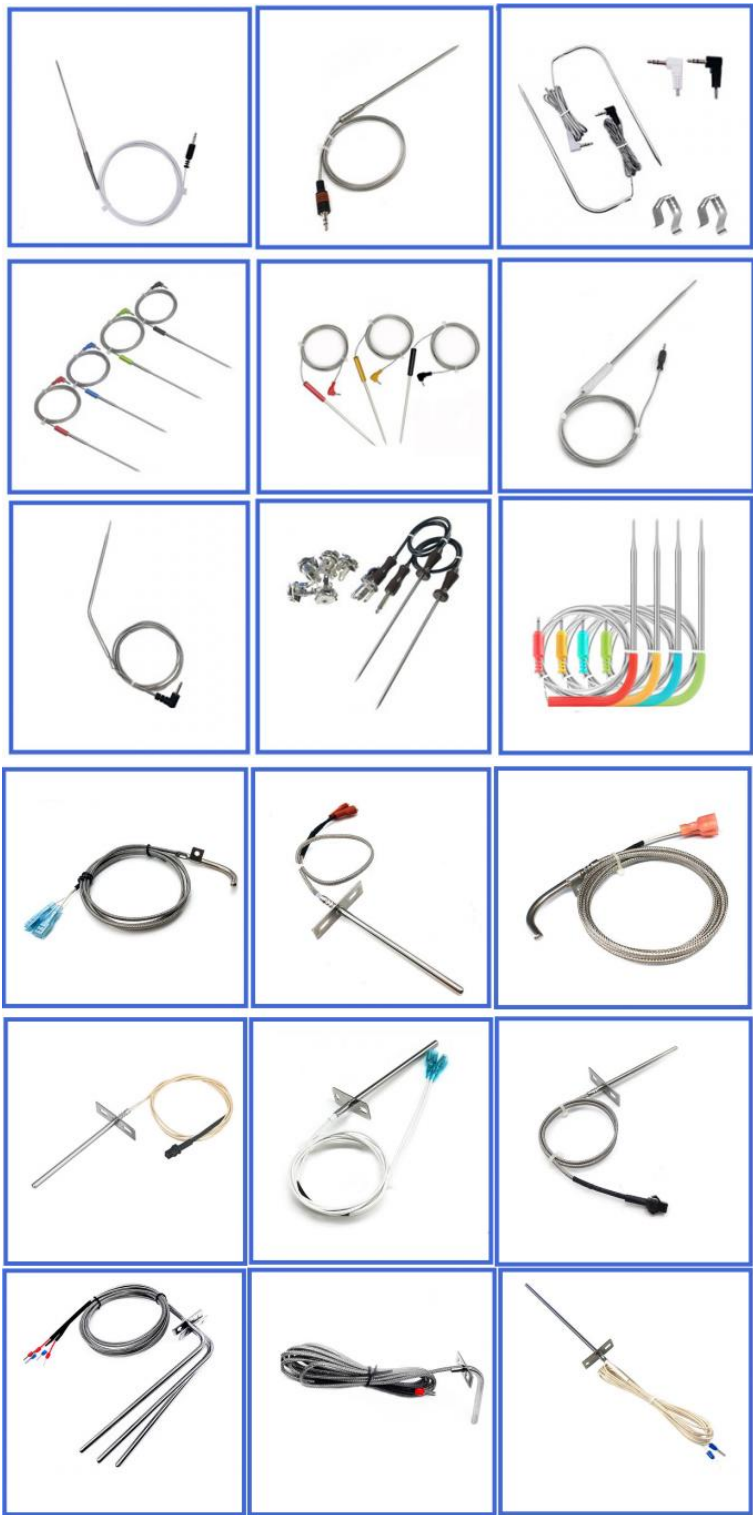


Dongguan Linkun Electronic Technology Co., Ltd.

Product actual picture:









Product Description:

Product Description:

Features:

PTC Thermistor Product Features:
 Positive Temperature Coefficient Thermistor
 Temperature Measurement Range: 60 -150
 Accuracy: ±5
 Sensor Type: Three-phase Motor Protection
 Operating Temperature: 150()
 Material: Wire

Technical Parameters:

Product Name	PTC Thermistor For Motor
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Accuracy	±5
Output type	Wire type (three Cores)
Sensor Type	Three-phase Motor Protection
Material	Wire
Temperature Measurement range	60 -150
Package/casing	Casing Type
Operating temperature	150()
Installation type	Welding
Series	PTC Sensor

Applications:

PTC Thermistor for Motor

Brand Name: Lin Kun
Model Number: MZ6-150-DS
Place of Origin: China
Accuracy: ±5
Material: Wire
Output type: Wire type (three Cores)
Series: PTC Sensor
Sensor Type: Three-phase Motor Protection

Introduction

PTC Thermistor, also known as Positive Temperature Coefficient Thermistor, is a type of thermistor that has a positive temperature coefficient of resistance. This means that as the temperature increases, the resistance of the PTC thermistor also increases. PTC Thermistors are widely used in various industries due to their self-regulating properties and high accuracy.

Application

PTC Thermistors are commonly used in motors as a protection device. Specifically, the MZ6-150-DS PTC Thermistor for Motor is designed for three-phase motor protection. It is used to monitor the temperature of the motor and provide protection against overheating. This is vital in preventing motor failure and ensuring the safety of equipment and personnel.

How It Works

The PTC Thermistor is placed in close proximity to the motor windings. As the motor operates, the temperature of the windings increases. When the temperature reaches a critical point, the resistance of the PTC Thermistor increases and triggers a signal to shut down the motor. This prevents the motor from overheating and causing damage.

Advantages

PTC Thermistors offer several advantages over other types of temperature sensing devices. One of the main advantages is their self-regulating property. This means that as the temperature increases, the resistance also increases, creating a natural limit to the temperature rise. Furthermore, PTC Thermistors are highly accurate, with an accuracy of ±5 . This makes them suitable for use in critical applications where precise temperature monitoring is required.

Material and Structure

The MZ6-150-DS PTC Thermistor is made of high-quality wire, which is known for its excellent thermal and electrical insulation properties. The wire is coated with a layer of PTC material, which is responsible for the positive temperature coefficient of resistance. The PTC material is encapsulated in a protective casing to ensure durability and reliability.

Conclusion

The MZ6-150-DS PTC Thermistor for Motor is a reliable and accurate solution for protecting three-phase motors from overheating. Its self-regulating property and high accuracy make it a popular choice in various industries. With its wire material and sturdy structure, it offers long-lasting performance and ensures the safety of motors and equipment.

Customization:

PTC Thermistor Customized Service

Brand Name: lin kun
Model Number: MZ6-150-DS PTC thermistor for motor
Place of Origin: China
Product Name: MZ6 PTC Thermistor For Motor
Accuracy: ±5
Installation Type: Welding
Operating Temperature: 150()
Series: PTC Sensor

Our PTC Thermistor is designed and manufactured by our brand, lin kun, in China. The model number MZ6-150-DS is specifically made for motor applications, providing reliable protection with its Positive Temperature Coefficient (PTC) technology.

We understand that different motors have different needs, which is why we offer customized solutions for our PTC Thermistors. With our expertise and experience, we can tailor our product to meet your specific requirements, ensuring optimal performance and protection for your motor.

Our PTC Thermistor has an accuracy of ±5 , ensuring precise and efficient temperature monitoring. It is designed for welding installation, making it easy to integrate into your motor system.

The operating temperature of 150() makes our PTC Thermistor suitable for a wide range of motor applications. It is a part of our PTC Sensor series, which is known for its high quality and reliability.

Choose our lin kun PTC Thermistor for your motor protection needs and benefit from our customized solutions. Contact us now to learn more.

Packing and Shipping:

PTC Thermistor Packaging and Shipping

Packaging:

The PTC Thermistor comes in a protective package to ensure safe delivery. The package includes:

PTC Thermistor

Anti-static bag

User manual

The PTC Thermistor is also available in bulk packaging for larger orders.

Shipping:

The PTC Thermistor can be shipped nationally and internationally. We offer the following shipping options:

Standard shipping: Delivery within 5-7 business days

Expedited shipping: Delivery within 2-3 business days

International shipping: Delivery within 7-14 business days

Shipping costs will vary depending on the destination and shipping method selected.

For international orders, customers may be responsible for any customs or import duties that may apply.

Once the order is shipped, customers will receive a tracking number to track their package's delivery status.

FAQ:



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