



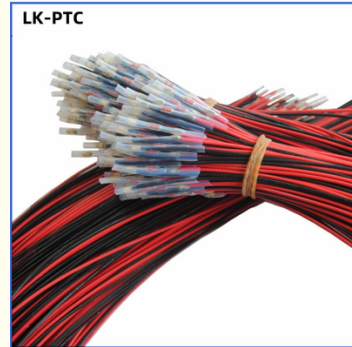
Three Cores Silicon Thermistor KTY84-152 Linear PTC Positive Temperature Cylindrical Silicon Single Crystal Thermistor

Our Product Introduction

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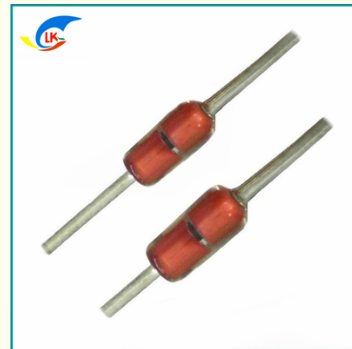
Basic Information

- Place of Origin: China
- Brand Name: lin kun
- Model Number: Silicon PTC Thermistor Temperature Sensor
- Minimum Order Quantity: 500pcs
- Price: 1-2 USD/PCS
- Packaging Details: Bulk, 500pcs per bag
- Delivery Time: 6-10 days
- Payment Terms: T/T, Western Union,
- Supply Ability: 100,000 0pieces/month

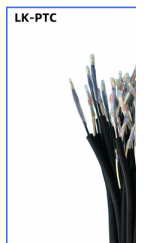


Product Specification

- Material: Silicon Single Crystal
- Allowable Deviation: $\pm 0.5\%$
- Product Name: KTY84-152
- Cable: UL1332 26AWG TS Black PTFE
- Terminal: 2.0 Copper Strip Terminal
- Output Type Wire Type: (three Cores)
- Temperature Coefficient: PTC
- High Light: Silicon KTY81 KTY83 KTY84 PTC Thermistor, Copper Strip Linear Ptc Thermistor
- Highlight: **Three Cores Silicon Thermistor, Single Crystal Silicon Thermistor**



More Images



Product Description

PTFE coated silicon PTC thermistor temperature sensor KTY81 KTY83 KTY84 KTY10 620MM

Silicon Thermistor KTY84-152 Linear PTC Positive Temperature Cylindrical Silicon Single Crystal Thermistor

1. Description of silicon PTC thermistor temperature sensor

Silicon PTC thermistor temperature sensor KTY84-150-620TW is made of chip KTY84-150 and is compatible with KTY83-1K Ω series. The chip is soldered to the PTFE cable UL1332 26AWG TS Black through 2.0 copper bus terminals, and then encapsulated with 2.0 PTFE heat shrink tube for a compact design. It has the characteristics of fast response, long-term stability and good consistency. "Silicon material positive electrode" temperature coefficient "KTY series thermistor and temperature sensor" is suitable for "drive motors and control motors". The main models include KTY84-130, KTY84-150,

Our Product

KTY84-151 and KTY84-152. The sensor The lead length and color can be customized.

2. Typical Application Of The Silicon PTC Thermistor Temperature Sensor

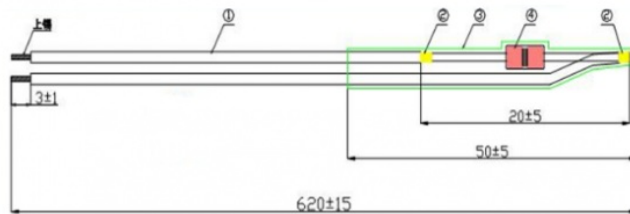
Motion control temperature sensor, temperature sensing and controls in drives and motors, spindles, inverters and control systems, etc.
 Industrial automation control equipment.
 Home appliance temperature detection and compensation.

Precision circuit and crystal oscillator temperature compensation.
 Temperature compensation of silicon semiconducting devices.
 Temperature compensation of instrumentation amplifier.
 A/D converter temperature compensation.
 Micro motor timing control.

Automobile temperature detection and control.
 Medical equipment temperature detection and control.

Linear PTC thermistors applications also include transmission, engine oil and coolant, heating system, overheating protection, amplifiers, power supplies, transducers, telemetry, computers, magnetic amplifiers, thermometry, meteorology, temperature regulation and over-temperature protection.

3. Dimension Of The Silicon PTC Thermistor Temperature Sensor(unit:mm)



Serial number	Material name	Specifications / Models	Texture of material
2-1.	LEAD WIRE	UL1332 26AWG TS Black(OD1.0±0.1mm)	PTFE
2-2.	TERMINAL	2.0 Copper strip terminal	
2-3.	TUBE	2.0 PTFE heat shrinkable tube	
2-4.	THERMISTOR	R25=580Ω±40Ω	LK-KTY84-150

4. Specification Of The Silicon PTC Thermistor Temperature Sensor

Serial number	Item	Test Conditions	Min.	Nor.	Max.	Unit
3-1.	Resistance At 25°C	Ta=25±0.05°C PT≤0.1mw	540	580	620	Ω
3-2.	Resistance At 100°C	Ta=100±1°C PT≤0.1mw	950	1000	1050	Ω
3-3.	Insulation test	100VDC	100	/	/	MΩ
3-4.	Withstand voltage test	1250V AC 2mA In still air	5	/	/	Sec
3-5.	Operation Temperature Range	/	-40	/	+150	°C
3-6.	Rated Current IN	/	/	2	/	mA
3-7.	Max Current Imax	/	/	/	8	mA
3-8.	Thermal Time τ	In still air	/	/	7	S
3-9.	Dissipation factor δ	In still air	1.5	/	/	mW/°C
3-10.	Rated Power Pmax	/	/	/	50	mW

5. R-T Characteristic Parameter Table Of The Silicon PTC Thermistor Temperature Sensor

Celsius		Fahrenheit		LK-KTY84-150			
°C	°F	%/(K)	(Ω)			(K)	
			MIN	TYP	MAX		
-40	-40	0.97	294	322	350	±8.85	
-30	-22	0.94	327	356	385	±8.76	
-20	-4	0.91	361	392	423	±8.7	
-10	14	0.88	397	430	463	±8.65	
0	32	0.87	434	469	504	±8.61	
10	50	0.85	475	512	549	±8.58	
20	68	0.82	517	556	595	±8.55	
25	77	0.80	540	580	620	±8.54	
30	86	0.79	562	603	644	±8.53	
40	104	0.78	610	653	696	±8.5	
50	122	0.75	659	704	749	±8.46	
60	140	0.73	711	758	805	±8.42	
70	158	0.67	768	814	860	±8.37	
80	176	0.63	827	873	919	±8.31	
90	194	0.62	887	935	983	±8.25	
100	212	0.62	950	1000	1050	±8.17	
110	230	0.62	1011	1068	1125	±8.66	
120	248	0.58	1077	1138	1199	±9.17	
130	266	0.52	1148	1209	1270	±9.69	
140	284	0.51	1215	1282	1349	±10.24	
150	302	0.50	1279	1352	1425	±10.8	

6. Features Of The Silicon PTC Thermistor Temperature Sensor

1. KTY84 temperature sensor chip, the structure is based on the principle of diffusion resistance, with a true approximate linear temperature coefficient, ensuring high accuracy of temperature measurement. (The temperature changes from -40°C to +180°C, and the resistance value changes approximately linearly from about 300Ω to 1600Ω.)
2. KTY84 temperature sensor chip, based on "silicon batch processing technology", has good product consistency and strong interchangeability."
3. KTY84 temperature sensor chip, the main component is silicon, silicon is inherently stable, so it has extremely high reliability

and extremely long service life (it has very little drift in up to 50 years, repeating its characteristics for millions of times The curve remains unchanged.)

4. KTY84 temperature sensor chip, the electrode is a Ni-Sn composite electrode, which has high reliability and good solderability.

5. KTY84 standard components are DO-35 glass packaging structure with axial leads. The structure is firm, the electrode contact is stable, and it can be used in harsh environments such as high temperature, high humidity and extreme cold. The appearance is standardized, and it has a small size and fast response. advantage.

6. The KTY84 temperature sensor is packaged and connected with PTFE leads and heat shrinkable tubes, and can withstand temperatures above 200°C. The resistance and leads are connected by copper tape riveting.

7.Silicon Sensors Application Precaution Of The Silicon PTC Thermistor Temperature Sensor

Minimum lead wire length tailored to shall be $\geq 8\text{mm}$.

In lead wire bending, bending point shall be more than 2mm away from glass body part.

8.Mounting and Handling Recommendations

Excessive forces applied to a sensor may cause serious damage. To avoid this, the following recommendations should be adhered to:

No perpendicular forces must be applied to the body

During bending, the leads must be supported

Bending close to the body must be done very carefully

Axial forces to the body can influence the accuracy of the sensor and should be avoided

These sensors can be mounted on a minimum pitch of $>5\text{ mm}$

9.Soldering and Welding

Avoid any force on the body or leads during, or just after, soldering.

Do not correct the position of an already soldered sensor by pushing, pulling or twisting the body.

Prevent fast cooling after soldering.

For hand soldering, where mounting is not on a printed-circuit board, the soldering temperature should be $<300\text{C}$ the soldering time $<3\text{ s}$ and the distance between body and soldering point $>1.5\text{ mm}$.

For hand soldering, dip, wave or other bath soldering, mounted on a printed-circuit board, the soldering temperature should be $<300\text{C}$, the soldering time $<5\text{ s}$ and the distance between body and soldering point $>1.5\text{ mm}$. The distance between the body and the welding point should be $>0.5\text{ mm}$. Care should be taken to ensure that welding current never passes through the sensor.

KTY types and LPTC types are all DO-35 precision glass sealed

Our company undertakes the production of various sensors using the above components

To facilitate installation, our company can undertake products of the same type and specifications with one-way lead plastic packaging components

The company's research, development and production of silicon thermistors and sensors with various special parameters and structural forms

Different wire lengths can be customized, and the following specifications can be processed:

Model: KTY83-110 KTY83-120 KTY83-121 KTY83-122 KTY83-150 KTY83-151 KTY83-152

KTY83-110 $R_{25^\circ\text{C}}=1000\Omega \pm 1\%$ operating temperature $-40^\circ\text{C}\sim 175^\circ\text{C}$

KTY83-120 $R_{25^\circ\text{C}}=1000\Omega \pm 2\%$ operating temperature $-40^\circ\text{C}\sim 175^\circ\text{C}$

KTY83-121 $R_{25^\circ\text{C}}=990\Omega \pm 1\%$ operating temperature $-40^\circ\text{C}\sim 175^\circ\text{C}$

KTY83-122 $R_{25^\circ\text{C}}=1010\Omega \pm 1\%$ operating temperature $-40^\circ\text{C}\sim 175^\circ\text{C}$

KTY83-150 $R_{25^\circ\text{C}}=1000\Omega \pm 5\%$ operating temperature $-40^\circ\text{C}\sim 175^\circ\text{C}$

KTY83-151 $R_{25^\circ\text{C}}=975\Omega \pm 2.5\%$ Working temperature $-40^\circ\text{C}\sim 175^\circ\text{C}$

KTY83-152 $R_{25^\circ\text{C}}=1025\Omega \pm 2.5\%$ Working temperature $-40^\circ\text{C}\sim 175^\circ\text{C}$

Factory real shot display:

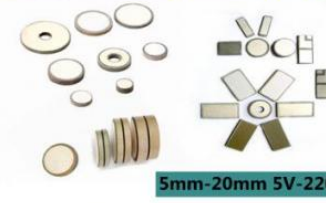


PTC Thermistor--Chip Series



0603 0805 1206 1210 2920

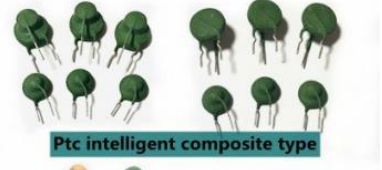
Ptc ceramic heating pad startup chip



5mm-20mm 5V-220V



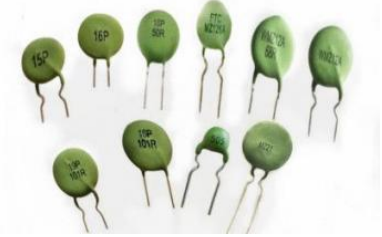
19mm 22R 33R



Ptc intelligent composite type



PTC overcurrent protection



UL	NTC series thermistor		RoHS
 <p>CWF sensor</p>	 <p>MF58 series</p>	 <p>MF11 series</p>	
 <p>MF58D angle-ended glass seal series</p>	 <p>MF52 series</p>	 <p>MF55 series</p>	
 <p>MF72 series</p>	 <p>SMD patch package series</p>	 <p>MF58 SMD package series</p>	

NTC/PTC Temperature sensor Type



Product Description:Product

Overview - PTC Thermistor

Welcome to our brand new Silicon PTC Thermistor Temperature Sensor, the perfect solution for your temperature sensing needs. This product is designed and manufactured to provide accurate and reliable temperature measurements in a variety of applications.

Product Name: Silicon PTC Thermistor Temperature Sensor

Tube Length: 50mm

Our PTC Thermistor features a tube length of 50mm, providing a compact and space-saving design for easy installation in any system. This length is ideal for a wide range of applications, including industrial, medical, and consumer electronics.

Output Type: Wire Type (Three Cores)

The output type for our PTC Thermistor is wire type, specifically three cores. This allows for easy integration into any existing wiring system, providing a seamless and hassle-free installation process.

High Light: Silicon KTY81 PTC Thermistor, Copper Strip Linear PTC Thermistor

Our PTC Thermistor is made with high-quality materials, including silicon KTY81 and copper strip. These materials are known for their durability, accuracy, and reliability, making our PTC Thermistor a top choice for temperature sensing applications.

Cable: UL1332 26AWG TS Black PTFE

The cable used for our PTC Thermistor is UL1332 26AWG TS Black PTFE, known for its excellent insulation and heat resistance properties. This ensures safe and reliable operation of the PTC Thermistor in a wide range of temperature conditions.

Positive Temperature Coefficient Thermistor

Our PTC Thermistor is a positive temperature coefficient thermistor, meaning its resistance increases with an increase in temperature. This makes it an ideal choice for temperature control and protection applications, providing accurate and precise temperature measurements.

Conclusion

In conclusion, our Silicon PTC Thermistor Temperature Sensor is a high-quality, reliable, and accurate solution for all your temperature sensing needs. Its compact design, versatile output type, and use of top-quality materials make it a top choice for a wide range of applications. Choose our PTC Thermistor and experience the best in temperature sensing technology.

Features:

Product Name: PTC Thermistor

Tube: 2.0 PTFE Heat Shrinkable Tube

Resistance: $R_{25}=580\Omega\pm 40\Omega$

Terminal: 2.0 Copper Strip Terminal

Tube Length: 50mm

Sensing Thermistor: LK-KTY84-150

Positive Temperature Coefficient Thermistor

High heat resistance

Fast response time

Accurate temperature sensing

Durable and long lasting

Technical Parameters:

Product Name	Silicon PTC Thermistor Temperature Sensor
Tube Length	50mm
High Light	Silicon KTY81 PTC Thermistor, Copper Strip Linear Ptc Thermistor
Cable	UL1332 26AWG TS Black PTFE
Cable Length	620mm
Resistance	$R_{25}=580\Omega\pm 40\Omega$
Tube	2.0 PTFE Heat Shrinkable Tube
Sensing Thermistor	LK-KTY84-150
Output Type Wire Type	Three Cores
Terminal	2.0 Copper Strip Terminal

Applications:

PTC Thermistor - Application and Scene

Brand Name: Lin Kun

Model Number: Silicon PTC Thermistor Temperature Sensor

Place of Origin: China

Terminal: 2.0 Copper Strip Terminal

Tube Length: 50mm

High Light: Silicon KTY81 PTC Thermistor, Copper Strip Linear Ptc Thermistor

Resistance: $R_{25}=580\Omega\pm 40\Omega$

Sensing Thermistor: LK-KTY84-150

The Positive Temperature Coefficient (PTC) Thermistor is a type of thermistor that exhibits a positive resistance-temperature relationship. This means that as the temperature increases, the resistance of the thermistor also increases. This unique property makes PTC thermistors useful in a variety of applications.

Application of PTC Thermistor

PTC thermistors are widely used in temperature sensing and control applications. They are commonly used in household appliances such as refrigerators, air conditioners, and water heaters to accurately monitor and regulate temperatures. PTC thermistors are also used in automotive applications, such as temperature control in engine and cabin heating systems. One of the key applications of PTC thermistors is as inrush current limiters. When an electronic device is turned on, it can draw a large amount of current in the initial seconds. PTC thermistors can be used to limit this inrush current and protect the device from damage. This makes them essential in power supplies, transformers, and other electronic devices.

Another important application of PTC thermistors is as temperature sensors in medical equipment. They are used in devices such as fever thermometers to accurately measure body temperature. PTC thermistors are also used in industrial equipment for temperature sensing and control in processes such as plastic molding and welding.

Scene of PTC Thermistor

Imagine a hot summer day and you step into your air-conditioned home. The temperature is set to a comfortable level, thanks to the PTC thermistor in the air conditioner that accurately senses and maintains the desired temperature. As you pour yourself a cold drink from the refrigerator, the PTC thermistor in it ensures that your food and drinks are stored at the perfect temperature. In the evening, you hop into your car and turn on the air conditioning, which is also controlled by a PTC thermistor. As you drive, the engine temperature is constantly monitored by a PTC thermistor, ensuring that it doesn't overheat. When you reach your destination, you use a fever thermometer to check your child's temperature, relying on the accuracy of the PTC thermistor inside it. These are just some of the many scenes where PTC thermistors play a crucial role in our daily lives.

In conclusion, the Lin Kun Silicon PTC Thermistor Temperature Sensor is a high-quality product from China that can be used in various applications such as temperature sensing, control, and inrush current limiting. With its positive temperature coefficient and accurate resistance values, it is a reliable and efficient choice for any temperature-related needs.

Customization:

Customized Service for Lin Kun Silicon PTC Thermistor Temperature Sensor

Brand Name: Lin Kun

Model Number: Silicon PTC Thermistor Temperature Sensor

Place of Origin: China

Tube Length: 50mm

Output Type: Wire Type (Three Cores)

Tube: 2.0 PTFE Heat Shrinkable Tube

Cable Length: 620mm

Product Name: Silicon PTC Thermistor Temperature Sensor

Introducing our customized service for the Lin Kun Silicon PTC Thermistor Temperature Sensor. As a leading manufacturer and supplier of Positive Temperature Coefficient Thermistors, we are proud to offer our customers with customizable options to meet their specific needs and requirements.

With our Brand Name Lin Kun, you can trust the quality and reliability of our products. Our Model Number Silicon PTC Thermistor Temperature Sensor is designed to accurately measure and monitor temperature in various applications. Made in China, our products adhere to strict quality standards and are manufactured using the finest materials. The Tube Length of our PTC Thermistor is 50mm, and it comes with an Output Type of Wire Type (Three Cores) for easy installation and use.

To ensure durability and protection, our PTC Thermistor is encased in a 2.0 PTFE Heat Shrinkable Tube. And with a Cable Length of 620mm, our product offers flexibility in its placement and usage.

Choose our Customized Service for your Silicon PTC Thermistor Temperature Sensor needs and experience the precision and accuracy of our products. Trust Lin Kun for all your Positive Temperature Coefficient Thermistor requirements. Contact us now to learn more.

Packing and Shipping:

PTC Thermistor Packaging and Shipping

Packaging:

Our PTC Thermistors are packaged in a sturdy and protective material to ensure safe delivery. Each thermistor is placed in a plastic or foam tray and then sealed in a polybag to prevent any damage during transportation.

For larger orders, the thermistors are packaged in a sturdy cardboard box with proper cushioning and placed in a pallet for added protection.

Shipping:

We offer various shipping methods to ensure timely delivery of our PTC Thermistors to our customers. These include:

Standard shipping: Our standard shipping option uses reputable courier services and takes 3-5 business days for delivery within the country.

Express shipping: For urgent orders, we offer express shipping which guarantees delivery within 1-2 business days.

International shipping: We also ship our products internationally, with delivery times varying based on the destination country.

For all orders, we provide a tracking number so customers can track the status of their shipment. We also ensure that all necessary customs documents are included to avoid any delays or issues during international shipping.

Our shipping charges are calculated based on the weight and destination of the order. Customers can choose their preferred shipping method and see the estimated shipping cost at the checkout page.

For any queries or concerns regarding packaging and shipping of our PTC Thermistors, please contact our customer support team for assistance.

FAQ:

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