



Positive Temperature Coefficient Silicon Temperature Thermistor LPTC-1400 For Motors Home Appliances

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: lin kun
- Certification: UL CCC RoHS
- Model Number: LPTC--1400
- Minimum Order Quantity: 500pcs
- Price: \$0.1-0.45
- Packaging Details: Bulk,500pcs per bag
- Delivery Time: 6-10 days
- Payment Terms: T/T, Western Union,
- Supply Ability: 100,000 0pieces/month

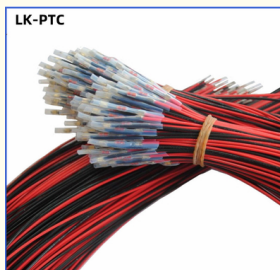


Product Specification

- Sensing Thermistor: LK-LPTC-LS31-1400
- Resistance: R25= 1400Ω
- Rated Power: 0.25(W)
- Temperature Coefficient:PTC
- Material: Silicon Single Crystal
- Cable: UL1332 26AWG TS Black PTFE
- Allowable Deviation: ±(1-5)%
- Highlight: **Positive Temperature Coefficient Silicon Temperature Thermistor**
,
LPTC-LS31-1400 Silicon Temperature Thermistor



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Product Description

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

LPTC-LS31-1400 Positive Temperature Coefficient Silicon Temperature Thermistor For Motors And Home Appliances

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 KTY83-1KΩ 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, 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.

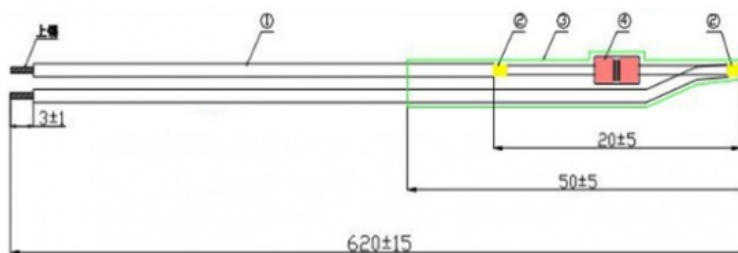
Micro motor timing control.

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 I _{max}	/			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 P _{max}	/	/	/	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 ≥8mm.

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 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 <300C the soldering time <3 s and the distance between body and soldering point >1.5 mm.

For hand soldering, dip, wave or other bath soldering, mounted on a printed-circuit board, the soldering temperature should be <300C, the soldering time <5 s and the distance between body and soldering point >1.5 mm. The distance between the body and the welding point should be >0.5 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 R25°C=1000Ω ±1% operating temperature -40°C~175°C

KTY83-120 R25°C=1000Ω ±2% operating temperature -40°C~175°C

KTY83-121 R25°C=990Ω ±1% operating temperature -40°C~175°C

KTY83-122 R25°C=1010Ω ±1% operating temperature -40°C~175°C

KTY83-150 R25°C=1000Ω ±5% operating temperature -40°C~175°C

KTY83-151 R25°C=975Ω ±2.5% Working temperature -40°C~175°C

KTY83-152 R25°C=1025Ω ±2.5% Working temperature -40°C~175°C

Factory real shot display:



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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



NTC/PTC Temperature sensor Type



Round tube package thermistor



Injection molded encapsulated temperature sensor



Flange tube encapsulated temperature sensor




Lug package temperature sensor



Bullet encapsulated temperature sensor



Threaded head package temperature sensor

UL	NTC series thermistor	RoHS
 CWF sensor	 MF58 series	 MF11 series
 MF58D single-ended glass seal series	 MF52 series	 MF55 series
 MF72 series	 SMD patch package series	 MF58 SMD package series

Product Description:

PTC Thermistor Product Overview

The Silicon PTC Thermistor Temperature Sensor is a high-quality and reliable temperature sensing device designed for various industrial and commercial applications. With a tube length of 50mm, this product offers accurate and precise temperature measurement, making it an essential tool in any temperature-sensitive environment.

The PTC Thermistor is a type of temperature sensor that utilizes the Positive Temperature Coefficient (PTC) effect, which means that its resistance increases as the temperature rises. This unique feature makes it ideal for monitoring temperature changes and controlling temperature-sensitive systems.

The Silicon PTC Thermistor Temperature Sensor is encased in a 2.0 PTFE heat shrinkable tube, providing excellent insulation and protection against external factors that may affect its performance. This tube also ensures a compact and sleek design, making it suitable for various installation settings.

For easy and convenient installation, this PTC Thermistor comes with an output type wire type with three cores. This allows for a more stable and secure connection to the system, ensuring accurate and reliable temperature readings. The wire type also makes it compatible with different types of terminal blocks and connectors.

To ensure a strong and durable connection, the Silicon PTC Thermistor Temperature Sensor is equipped with 2.0 copper strip terminals. These high-quality terminals offer excellent conductivity and corrosion resistance, making them suitable for use in harsh environments. Overall, the Silicon PTC Thermistor Temperature Sensor is a top-of-the-line product that offers precise and accurate temperature measurement for a wide range of applications. With its compact design, reliable performance, and easy installation, this product is a must-have for any temperature-sensitive system.

Features:

Product Name: PTC Thermistor
Resistance: $R_{25}=580\Omega\pm 40\Omega$
Tube Length: 50mm
Tube: 2.0 PTFE Heat Shrinkable Tube
Cable Length: 620mm
Output type: Positive Temperature Coefficient Thermistor
Wire type: Three Cores

Technical Parameters:

Technical Parameters	Values
Cable Length	620mm
Product Name	Silicon PTC Thermistor Temperature Sensor
Terminal	2.0 Copper Strip Terminal
High Light	Silicon KTY81 PTC Thermistor, Copper Strip Linear Ptc Thermistor
Tube Length	50mm
Resistance	$R_{25}=580\Omega\pm 40\Omega$
Output type	Wire type (three Cores)
Sensing Thermistor	LK-KTY84-150
Cable	UL1332 26AWG TS Black PTFE
Tube	2.0 PTFE Heat Shrinkable Tube
Key Features	Positive Temperature Coefficient Thermistor, High Sensitivity, Fast Response Time

Applications:

Brand Name: Lin Kun

Model Number: Silicon PTC Thermistor Temperature Sensor

Place of Origin: China

The Lin Kun Silicon PTC Thermistor Temperature Sensor is a high-quality product designed and manufactured in China. It is a must-have for all electronic enthusiasts and professionals.

Product Name: Silicon PTC Thermistor Temperature Sensor

The Silicon PTC Thermistor Temperature Sensor by Lin Kun is a highly sensitive and accurate temperature sensor perfect for a wide range of applications. Its unique positive temperature coefficient thermistor technology ensures reliable and stable readings, making it a top choice for professionals.

Cable: UL1332 26AWG TS Black PTFE

The product comes with a UL1332 26AWG TS Black PTFE cable, ensuring high durability and safety. The cable is designed to withstand extreme temperature and is resistant to wear and tear, making it ideal for long-term use.

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

The Silicon PTC Thermistor Temperature Sensor has a resistance of $R_{25}=580\Omega\pm 40\Omega$, providing accurate and precise temperature readings. This high resistance value ensures that the sensor can be used in a wide range of temperature environments without compromising its accuracy and stability.

Cable Length: 620mm

The product comes with a cable length of 620mm, providing enough length for easy installation and use. This makes it suitable for various applications, including industrial, automotive, and household use.

Sensing Thermistor: LK-KTY84-150

The sensing thermistor used in the Silicon PTC Thermistor Temperature Sensor is the LK-KTY84-150, known for its high sensitivity and accuracy. This thermistor is designed to detect even the slightest changes in temperature, making it perfect for precise temperature control and monitoring.

Wide Temperature Range

The Silicon PTC Thermistor Temperature Sensor by Lin Kun has a wide temperature range, making it suitable for various applications. It can accurately measure temperatures from -40°C to 150°C , making it ideal for use in both extreme hot and cold environments.

Conclusion

The Lin Kun Silicon PTC Thermistor Temperature Sensor is a reliable, accurate, and durable product that is perfect for a wide range of temperature sensing applications. Its advanced technology and high-quality components make it a top choice for professionals and electronic enthusiasts alike. Get yours today and experience the precision and stability it offers!

Customization:

PTC Thermistor Custom Service

Brand Name: lin kun

Model Number: Silicon PTC Thermistor Temperature Sensor

Place of Origin: China

Tube: 2.0 PTFE Heat Shrinkable Tube

Tube Length: 50mm

Cable: UL1332 26AWG TS Black PTFE

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

Output type: Wire type

Wire type: Three Cores

Our lin kun PTC Thermistor provides reliable and accurate temperature sensing for your products. With its Positive Temperature Coefficient Thermistor technology, it ensures stable and precise temperature measurement.

We offer custom services for our PTC Thermistors to meet your specific requirements. From the tube material to the wire type, we can customize every aspect of the thermistor to fit your needs.

The tube of our PTC Thermistor is made of 2.0 PTFE Heat Shrinkable Tube, providing excellent insulation and durability. It has a length of 50mm, suitable for various applications.

The cable used for our PTC Thermistor is UL1332 26AWG TS Black PTFE, ensuring high-quality and safe connections. The resistance of the thermistor is $R_{25}=580\Omega\pm 40\Omega$, providing accurate temperature readings.

The output type of our PTC Thermistor is wire type, with three cores for easy installation. Choose from a variety of wire types to suit your specific needs.

Trust lin kun for your custom PTC Thermistor needs. Contact us now to learn more about our custom services and get a quote.

Packing and Shipping:

PTC Thermistor Packaging and Shipping

The PTC thermistor is carefully packaged and shipped to ensure safe delivery and protection of the product.

Each PTC thermistor is individually packaged in a protective plastic bag to prevent any damage during shipping.

The packaged PTC thermistor is then placed in a sturdy cardboard box with ample padding to provide additional protection.

The box is sealed and labeled with the product name, quantity, and any necessary handling instructions.

For international shipments, the PTC thermistor is packaged in compliance with all necessary regulations and documentation.

All packaging materials used are environmentally friendly and recyclable.

Shipping Options

We offer a variety of shipping options for our PTC thermistors depending on the customer's needs and location.

Standard shipping: 2-5 business days within the United States

Expedited shipping: 1-3 business days within the United States

International shipping: delivery time varies by location

Customers can select their preferred shipping option during the checkout process.

Shipping Fees

Shipping fees are calculated based on the shipping option selected and the destination address.

Customers will be able to view the applicable shipping fees during the checkout process.

We offer discounted shipping rates for bulk orders.

Tracking Information

Once the PTC thermistor has been shipped, customers will receive a tracking number via email.

This tracking number can be used to track the status of the shipment and estimated delivery date.

Customers can also log into their account on our website to view their order status and tracking information.

Customer Satisfaction

Our top priority is customer satisfaction, and we take every measure to ensure our PTC thermistors are delivered promptly and in excellent condition.

If for any reason you are not satisfied with the packaging or shipping of your PTC thermistor, please contact our customer service team for assistance.

FAQ:

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