



## CE Lead Free PPTC Thermistor Multipurpose For Motor Overload

Our Product Introduction

### Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: Polymer PPTC Thermistor
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: Export Package / Negotiation
- Delivery Time: Negotiation
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 24 million per year



### Product Specification

- Features: Lead-free
- Operating Temperature: -40°C-85°C
- Temperature Coefficient: PTC
- Resistance Tolerance: Customer-made
- Material: High Molecule Polymer
- Withstanding Surge Current: 1-400
- Highlight: **Lead Free PPTC Thermistor,  
Multipurpose PPTC Thermistor,  
Motor Lead Free Thermistor**

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## Product Description

### Strong Reliability Smaller Size Polymer PPTC Thermistor Applied To Motor Overload

PPTC thermistors ((Polymer Positive Temperature Coefficient)) are made of polymer material filled with carbon black particles. This material has a certain ability to conduct electricity, so it can pass the rated current. If the current through the thermistor is too high, its heating power is greater than the cooling power, at this time the temperature of the thermistor will start to rise continuously, and at the same time the polymer matrix in the thermistor starts to expand, which makes the carbon black particles separate, and causes the resistance to rise, which very effectively reduces the current in the circuit. At this time, there is still a small current flowing in the circuit, and this current keeps the thermistor at a high enough temperature to maintain a high resistance state. When the fault is eliminated, the PPTC thermistor will cool down quickly and will return to the original low resistance state, so that it can work again like a new thermistor.

The resistance-temperature characteristics of the thermistor can be approximately expressed by the following formula:  $R=R_0\exp\{B(1/T-1/T_0)\}$ ; R: resistance value at temperature T(K),  $R_0$ : temperature  $T_0$ , (K) resistance value, B:B value,  $*T(K)=(^{\circ}C)+273.15$ . In fact, the B value of the thermistor is not constant, and its variation varies depending on the material composition, and the maximum can even reach 5K/°C. Therefore, when formula 1 is applied in a larger temperature range, there will be a certain error between the measured value and the actual value. Here, if the value of B in Equation 1 is calculated as a function of temperature shown in Equation 2, the error between the measured value and the actual value can be reduced, and it can be considered to be approximately equal.

### Features

- 1 Easy to set up with safety and stability.
- 2 Smaller size that saves board space and cost.
- 3 Resettable circuit protection.
- 4 Fast time-to-trip.
- 5 Low resistance.
- 6 Lead-free and compliant with the European Union RoHS Directive.

### PTC Thermistor for Overload Over-current Protection 265V/250V Series Data

Part number	Resistance @25C R25 (OHM)	Non-trip current Int(mA)		Trip current @25C It (mA)	Max. operating voltage Vmax (V)	Max. current Imax (A)	Reference temperature Tref (Centigrade)	Dimension (mm)		
		@25C	@60C					Dmax	Tmax	φd
MZ11-20P3R7H265	3.7 ohm	530mA	430mA	1050mA	265V	4.3A	120C	22.0	5.0	0.6
MZ11-16P6R0H265	6.0 ohm	390mA	300mA	780mA	265V	3.1A		17.5	5.0	0.6
MZ11-16P7R0H265	7.0 ohm	350mA	280mA	700mA	265V	3.1A		17.5	5.0	0.6
MZ11-13P10RH265	10 ohm	260mA	200mA	520mA	265V	1.8A		14.0	5.0	0.6
MZ11-13P12RH265	12 ohm	225mA	180mA	450mA	265V	1.8A		14.0	5.0	0.6
MZ11-12P10RH265	10 ohm	250mA	200mA	500mA	265V	1.8A		13.5	5.0	0.6
MZ11-12P101H265	100 ohm	50mA	40mA	100mA	265V	1.8A		13.5	5.0	0.6
MZ11-10P15RH265	15 ohm	180mA	140mA	350mA	265V	1.2A		11.0	5.0	0.6
MZ11-10P39RH265	39 ohm	130mA	100mA	250mA	265V	1.2A		11.0	5.0	0.6
MZ11-08P15RH250	15 ohm	150mA	120mA	300mA	250V	0.8A		9.0	5.0	0.6
MZ11-08P25RH265	25 ohm	130mA	100mA	250mA	265V	0.8A		9.0	5.0	0.6
MZ11-08P35RH265	35 ohm	115mA	90mA	225mA	265V	0.8A		9.0	5.0	0.6
MZ11-08P45RH265	45 ohm	105mA	80mA	200mA	265V	0.8A		9.0	5.0	0.6
MZ11-08P55RH265	55 ohm	90mA	70mA	180mA	265V	0.8A		9.0	5.0	0.6
MZ11-07P82RH265	82 ohm	70mA	50mA	140mA	265V	0.6A		8.0	5.0	0.6
MZ11-07P56RH265	56 ohm	90mA	60mA	175mA	265V	0.6A		8.0	5.0	0.6
MZ11-06P33RH250	33 ohm	110mA	85mA	200mA	250V	0.4A	7.0	4.5	0.6	
MZ11-05P70RH265	70 ohm	65mA	50mA	130mA	265V	0.3A	6.5	5.0	0.6	
MZ11-05P85RH265	85 ohm	60mA	45mA	120mA	265V	0.3A	6.5	5.0	0.6	

MZ11-05P39RH250	39 ohm	80mA	65mA	160mA	250V	0.2A	100C	6.5	5.0	0.6
MZ11-05P121H265	120 ohm	45mA	35mA	90mA	265V	0.3A		6.5	5.0	0.6
MZ11-05P181H265	180 ohm	40mA	30mA	80mA	265V	0.3A		6.5	5.0	0.6
MZ11-04P70RH250	70 ohm	50mA	40mA	100mA	250V	0.2A		5.5	5.0	0.6
MZ11-04P121H265	120 ohm	40mA	30mA	80mA	265V	0.2A		5.5	5.0	0.6
MZ11-03P151H250	150 ohm	40mA	30mA	75mA	250V	0.2A		4.5	5.0	0.5
MZ11-10N12RH250	12 ohm	170mA	130mA	340mA	250V	1.2A		11.0	5.0	0.6
MZ11-10N18RH265	18 ohm	145mA	110mA	290mA	265V	1.2A		11.0	5.0	0.6
MZ11-10N22RH265	22 ohm	125mA	90mA	250mA	265V	1.2A		11.0	5.0	0.6
MZ11-07N22RH250	22 ohm	120mA	90mA	225mA	250V	0.5A		8.0	5.0	0.6
MZ11-05N151H265	150 ohm	38mA	30mA	80mA	265V	0.3A		6.5	5.0	0.6
MZ11-05N301H265	300 ohm	27mA	20mA	55mA	265V	0.3A		6.5	5.0	0.6
MZ11-05N601H265	600 ohm	20mA	15mA	40mA	265V	0.2A		6.5	5.0	0.6
MZ11-05N102H265	1000 ohm	15mA	12mA	30mA	265V	0.2A		6.5	5.0	0.6
MZ11-04N151H265	150 ohm	36mA	28mA	80mA	265V	0.3		5.5	5.0	0.6
MZ11-03N151H265	150 ohm	33mA	25mA	65mA	265V	0.2A		4.5	5.0	0.5
MZ11-03N101H250	100 ohm	40mA	30mA	80mA	250V	0.2A	4.5	5.0	0.5	
MZ11-03N70RH250	70 ohm	45mA	35mA	90mA	250V	0.1A	4.5	5.0	0.5	
MZ11-08M12RH250	12 ohm	120mA	70mA	220mA	250V	0.8A	80C	9.0	5.0	0.6
MZ11-08M25RH265	25 ohm	85mA	50mA	170mA	265V	0.8A		9.0	5.0	0.6
MZ11-08M35RH265	35 ohm	80mA	50mA	150mA	265V	0.8A		9.0	5.0	0.6
MZ11-08M50RH265	50 ohm	60mA	40mA	120mA	265V	1.0A		9.0	5.0	0.6
MZ11-07M101H265	100 ohm	50mA	30mA	100mA	265V	0.6A		8.0	5.0	0.6
MZ11-05M70RH250	70 ohm	50mA	30mA	100mA	250V	0.3A		6.5	5.0	0.6
MZ11-05M121H265	120 ohm	30mA	20mA	60mA	265V	0.3A		6.5	5.0	0.6
MZ11-03M101H250	100 ohm	25mA	18mA	55mA	250V	0.2A		4.5	5.0	0.5
MZ11-03M151H265	150 ohm	22mA	15mA	45mA	265V	0.2A	4.5	5.0	0.5	

### Applications

Temperature measurement and control of household air-conditioner, refrigerator, icebox, water heater, drinking machine, radiator, dishwasher, disinfectant, washing machine, drying machine, middle-or-low-temperature drying box and constant temperature box.

### Conventional product electrical performance parameters

Part No.	R25°C (KΩ)	B(K) 25/50°C	Rated Power @25°C(mW)	Dissipation Factor(δ) (mW/°C)	Thermal time Constant (S)
TS502□3274A	5.0	3274	10-20	2-4	5-20
TS502□3435B	5.0	3435	10-20	2-4	5-20
TS502□3470A	5.0	3470	10-20	2-4	5-20
TS502□3950A	5.0	3950	10-20	2-4	5-20
TS103□3274A	10.0	3274	10-20	2-4	5-20
TS103□3435B	10.0	3435	10-20	2-4	5-20
TS103□3470A	10.0	3470	10-20	2-4	5-20
TS103□3950A	10.0	3950	10-20	2-4	5-20
TS103□4100A	10.0	4100	10-20	2-4	5-20

TS153□3950A	15.0	3950	10-20	2-4	5-20
TS153□4100A	15.0	4100	10-20	2-4	5-20
TS203□3950A	20.0	3950	10-20	2-4	5-20
TS203□4100A	20.0	4100	10-20	2-4	5-20
TS223□4200A	22.0	4200	10-20	2-4	5-20
TS403□3928A	40.0	3928	10-20	2-4	5-20
TS503□3950A	50.0	3950	10-20	2-4	5-20
TS503□4100A	50.0	4100	10-20	2-4	5-20
TS104□3950A	100.0	3950	10-20	2-4	5-20
TS104□4100A	100.0	4100	10-20	2-4	5-20
TS104□4400A	100.0	4400	10-20	2-4	5-20



**APPLICATION:**

1.	switch power supply
2.	transformer, adaptor, charger
3.	electric coils, control panel
4.	house appliance(A/C,micro oven)
5.	electronic circuit
6.	instrument

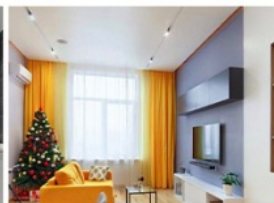
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## CERTIFICATES



### FAQ

Q: Are you trading company or manufacturer ?

A: We are the fuse factory.

Q: How long is your delivery time?

A: Generally it is 3 days if the goods are in stock. Or it is 5-10 days if the goods are not in stock, according to the quantity.

Q: Do you provide samples ? is it free or extra ?

A: Yes, we could offer the sample for free charge but do not pay the cost of freight.

Q: What is your terms of payment ?

A: 100% in advance, T/T.

If you have another question, pls feel free to contact us for more about PolySwitch PPTC Resettable PTC Fuse with radial leads



**Dongguan Linkun Electronic Technology Co., Ltd.**



13423305709



huangju@lk-ptc.com



lk-thermistor.com

Room 101, No. 21, Huayuanzai Road, Chongmei, Chashan Town, Dongguan City, Guangdong Province