

## Degaussing Resistor MZ72 9 Ohm 14 Ohm 18 Ohm 27 Ohm Shell-Mounted Single-Chip Two-Legged PTC Thermistor

When a high voltage is applied to the degaussing resistor, a large impact current is generated instantaneously. At the same time, the temperature of the thermistor itself rises rapidly, the resistance increases, and the current decreases rapidly, which plays a role in degaussing. The heating resistance increases and the residual current decreases. Usually this circuit is directly connected to the switch, and when the power is turned on, the degaussing work is automatically completed.

### 1. Features

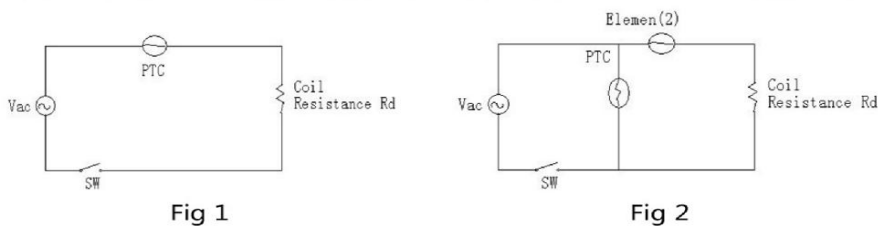
- ◆ Automatic degaussing components for color TV sets and color monitors
- ◆ Current limiting components in AC circuits

### 2. Naming method:

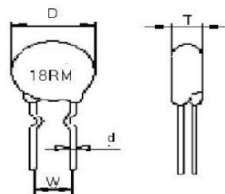
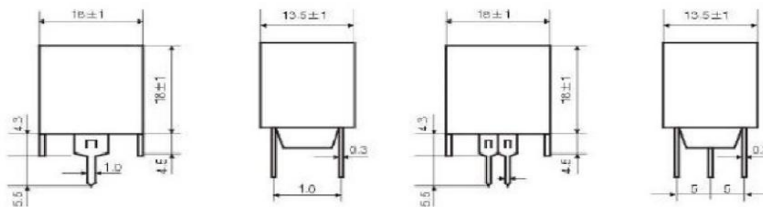
MZ7	□	□□RM
Thermal model	Number of lead pins	Thermistor value

### 3. Dimensions

MZ72 type MZ73 type



#### ◆ Dimensions:



Model	D <sub>MAX</sub> (mm)	W ±1 (mm)	T <sub>MAX</sub> (mm)	Φd± 0.05 (mm)
MZ71-18 RM	15.0	9.0	6.0	0.8

#### ◆ product code / Ordering method

LK - MZ 72 - 14R M AC 270V  
 ①      ②      ③              ④      ⑤      ⑥              ⑦

- ① Lin Kun Electronics
- ② Thermistor
- ③ 71-lead type 72-shell type single chip (2 pins) 73-shell type double chip (three pins)
- ④ Room temperature resistance value
- ⑤ Allowable error of resistance value, M-±20%, N-±30%
- ⑥ Alternating current
- ⑦ Maximum voltage

#### 4. The main technical parameters

Model	Nominal resistance (Ω)	Operating Voltage (V)	maximum voltage (V)	Current attenuation characteristics(25℃)		
				I0P-P(A)	I1P-P(mA)3	I2rms(mA)60
MZ72-09RM	9±20%	120	140	≥15	≤400	≤12
MZ72-14RM	14±20%	220	270	≥18	≤300	≤8
MZ72-18RM	18±20%	220	270	≥18	≤300	≤8
MZ72-20RM	20±20%	220	270	≥18	≤300	≤8
MZ73-09RM	9±20%	120	140	≥15	≤300	≤6
MZ73-12RM	12±20%	220	270	≥18	≤300	≤5
MZ73-14RM	14±20%	220	270	≥18	≤300	≤5
MZ73-18RM	18±20%	220	270	≥18	≤300	≤5
MZ73-20RM	20±20%	220	270	≥18	≤300	≤5
MZ73-27RM	27±20%	220	270	≥18	≤300	≤5

#### Degaussing 14MM 18 OHM Positive Coefficient Ceramic MZ71 MZ71-18RM PTC Thermistor

MZ7 PTC thermistor are used as automatic degaussing components in color TVs and color displays, and current-limiting components in AC circuits.

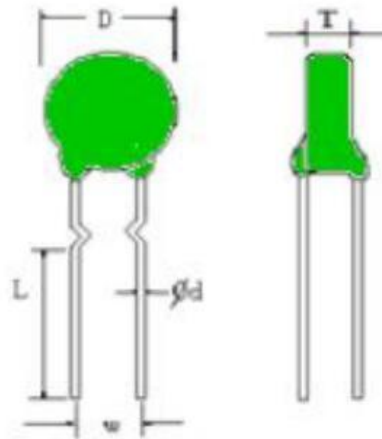
MZ71, 72, 73 series PTC thermistors and Degaussing PTC Thermistor are mainly used in degaussing circuits of color TVs, displays and other CRTs, which can effectively eliminate image distortion, abnormal colors or irregular images caused by stray magnetic fields, and make color The picture is more vivid and clearer. It has the advantages of low residual current and good reliability. At present, the development trend of automatic degaussing PTC thermistors is small size, low resistance, low residual current, high impact resistance, and high reliability.

In order to eliminate image distortion, abnormal colors or irregular images caused by stray magnetic fields, automatic degaussing circuits are designed in color TVs and color displays, which are composed of PTC thermistors & degaussing resistors and degaussing coils. The principle is to add energy every time when the machine is turned on, and gradually remove the energy after normal operation, so that the electron beam is affected by the deflection coil without being affected by any external stray magnetic field. When the machine is turned on, the PTC thermistor & degaussing resistor In a low resistance state, a large current is formed in the degaussing coil, and the magnetic field line is greater than 350At, which can effectively eliminate the influence of stray magnetic fields. Then the PTC thermistor & degaussing resistor enters a high resistance state under the influence of a large current, the loop current is automatically attenuated, the residual current is very small, and it is almost open, and the magnetic field line is reduced to below 0.03At, reaching the acceptable limit under normal operation.

## Advantage

1. Has a large inrush current;
2. Low residual current;
3. Very high withstand voltage strength;
4. High impact resistance;
5. High reliability;
6. Reliable product quality;
7. Low power consumption;
8. Small size suitable for PCB;
9. No contact, no noise, long product life;
10. The product's own characteristics enable it to control the current without other controllers.
11. Comply with RoHS requirements.

## Appearance specifications:



Code	Name	Technical Requirements	Lead shape
D	Diameter	14.5max	<input type="checkbox"/> Straight <input type="checkbox"/> Axis bend <input checked="" type="checkbox"/> Informing
T	Thickness	6.0max	
L	Length	3-5MM	
W	Pitch	7.5±1.0	
d	Lead diameter	0.7±0.05	

## Coating

Coating	Material	Color
<input checked="" type="checkbox"/> Coating <input type="checkbox"/> No Coating	<input type="checkbox"/> Phenolic Resin <input checked="" type="checkbox"/> Silicone <input type="checkbox"/> Epoxy resin <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Black <input type="checkbox"/> Blue

## Marking

Marking	Example
<input checked="" type="checkbox"/> Marked <input type="checkbox"/> Without Mark	MZ71-18RM AC270V

## Lead Wire

■ Tinned Steel Wire □ Tinned copper wire

## Part Numbering

**MZ7 1 - 18R M**

**MZ7** — Type ( degaussing PTC Thermistor )

**1** — Welding type

**18R** — Nominal resistance value

**M** — Maximum allowable deviation of resistance value  $\pm 30\%$

## Electrical Performances

No.	Item	Spec	Test Condition
4-1	Nominal resistance	$18\Omega \pm 30\%$	Put it at $25 \pm 2^\circ\text{C}$ for more than 2 hours, Test at voltage below 1.5VDC.
4-2	R-T characteristic	See Fig. 2	R-T characteristic special tester.
4-3	Rated Voltage	220 Vrms	Operating temperature range: $-10^\circ\text{C} \sim +60^\circ\text{C}$
4-4	Max Voltage	270 Vrms	
4-5	Min degaussing coil resistance	$12\Omega$	
4-6	Current decay characteristics: Break into After 3 sec After 30 sec	$>20 \text{ Ap-p}$ $<180 \text{ mAp-p}$ $<10 \text{ mArms}$	Temperature: $25 \pm 2^\circ\text{C}$ , Test in still air, Test circuit: as shown in Fig. 1 Test voltage: 220Vrms (50-60Hz)
4-7	Curie temperature	$60 \pm 7^\circ\text{C}$	

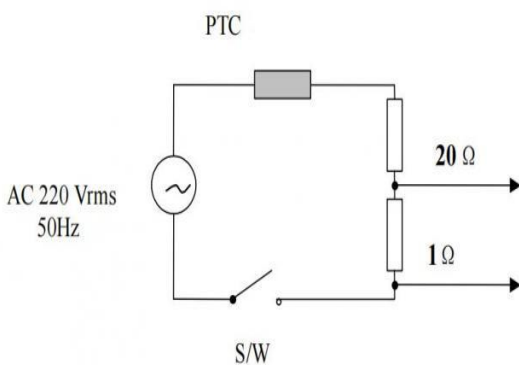


Fig. 1 Test circuit

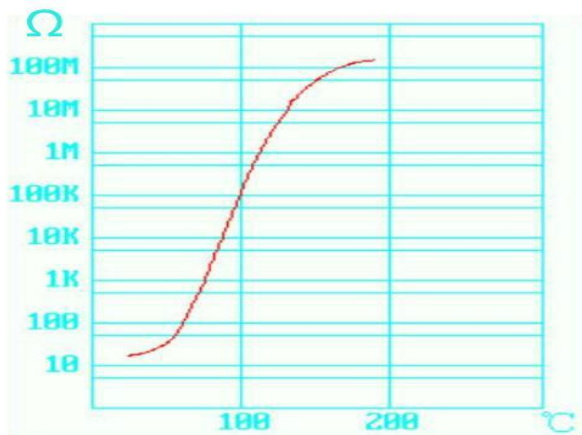


Fig. 2 Resistance-temperature characteristic curve

