

MZ5 series PTC thermistor is a ceramic heating component. It can be made into different size and configuration according to the application needed. The rectangle and round or ring types are typical ones. For different applications it can also be further assembled while matching with isolating polyimide film or metal frame.



### Typical Applications

- heating apparatus
- clothes dryer
- hand dryer
- hair straightener
- hair crimper
- coffee or water warmer
- physical therapy heater
- vapor generator
- humidifier
- de-humidifier
- painting room oil drier, etc.

### Features

- High stability and safety
- Heating temperature adjustable
- Prompt response

### Dimensions (mm)

Shapes	Diameter	Length	Width	Thickness	Rate voltage	Resistance @ 25°C	Surface Temperature
Round disc	5~15mm			0.3~0.5mm	3~6V	2~10Ω	50~100°C
Round disc	5~25mm			0.5~1.5mm	12~50V	2~20Ω	50~300°C
Round disc	5~25mm			1.4~2.0mm	100~140V	200~2000Ω	50~320°C
Round disc	5~25mm			1.8~2.5mm	220~240 V	800~4000Ω	50~320°C
Round disc	10~25mm			2.0~3.0mm	220~240 V	800~4000Ω	250~320°C
Round disc	10~25mm			3.0~4.0mm	380~400 V	2000~8000Ω	50~280°C
Rectangle		1~3mm	1~2mm	0.3~0.5mm	3~6V	50~150Ω	50~100°C
Rectangle		2~5mm	1~2mm	0.3~0.5mm	12~24V	100~300Ω	50~150°C
Rectangle		5~40mm	3~20mm	1.0~1.5mm	12~50V	2~20Ω	50~300°C
Rectangle		5~40mm	3~20mm	1.4~2.0mm	100~140V	200~2000Ω	50~320°C
Rectangle		5~40mm	3~20mm	1.8~2.5mm	220~240 V	800~4000Ω	50~320°C
Rectangle		10~40mm	6~20mm	2.0~3.0mm	220~240 V	800~4000Ω	250~320°C
Rectangle		10~40mm	6~20mm	3.0~4.0mm	380~400 V	2000~8000Ω	50~280°C

### Ordering Guide

MZ5	-	xxx	C	xxx	D	x
PTC thermistor MZ5 series for heating		Surface temperature	degree Celsius	Rated voltage unit: V	Signal for shape D - round disc type R - Rectangle type	Signal for component type : 1:bare heating chip 2:Assembly with polyimide insulation with extension lead wire 3:Assembly with metal frame

### Electrical characteristics

Part No.	Resistance @25°C (Ω)	Surface Temp. (°C)	Rate. Volt. (V)	Dia. (mm)	Length (mm)	Width (mm)	Thickness (mm)	Main Purposes
MZ5-50C220□□	500~1500	50	220	8			3	Agricultural Heater
MZ5-75C24□□	8~20	75	24	13			1.4	Physical Therapy Machine
MZ5-75C120□□	500~1500	75	220	13			2.2	Physical Therapy Machine
MZ5-85C120□□	300~800	85	120		16	11	2.5	Massaging Machine
MZ5-90C120□□	150~400	90	120		16	11	2.5	Massaging Machine
MZ5-100C220□□	600~1500	100	220	20	16	11	2.5	Massaging Machine
MZ5-110C24□□	10~25	110	24	9.8			2.5	Motor Car
MZ5-110C220□□	500~1500	110	220		23.5	10	2.2	Shoe Dryer
MZ5-130C220□□	500~1500	130	220	8			2.2	Mosquito Destroyer
MZ5-130C220□□	500~1500	130	220	20			2.2	Heating Plate
MZ5-150C120□□	200~800	150	120	10.8			2.2	Heater Degausser for
MZ5-150C12□□	20~50	150	12	13			1.3	Heating Plate
MZ5-155C24□□	50~90	155	24	13			1.3	Delay switch
MZ5-155C220□□	200~800	155	220	10.8			2.2	Heater Degausser for

MZ5-155C220□□	500~1500	155	220	10.8			2.2	Heating Plate
MZ5-160C24□□	8~20	160	24	17			1.4	Automobile
MZ5-160C220□□	500~1500	160	220	20			2.2	Humidifier
MZ5-175C120□□	150~500	175	120	10.8			2.2	Heating Plate
MZ5-180C24□□	1~5	180	24	20			1.4	Automobile
MZ5-180C220□□	500~1500	180	220	10.8			2.2	Heating Plate
MZ5-185C24□□	15~70	185	24		30	5	2.1	Hair Roller
MZ5-185C220□□	200~800	185	220	10.8			2.2	Heater Degausser for
MZ5-230C220□□	800~2K	230	220		19	12	2.2	Hair Roller
MZ5-230C220□□	800~2K	230	220	13			2.5	Mosquito Destroyer
MZ5-250C220□□	800~2K	250	220	13			2.5	Mosquito Destroyer
MZ5-250C220□□	2~5K	250	220	20			2.5	Water Heater
MZ5-250C120□□	300~1K	250	120		23.5	10	2.2	Heating Plate
MZ5-250C12□□	3~10	250	12		24	15	1.4	Heating Plate
MZ5-255C220□□	800~2K	255	220		23.5	10	2.2	Heating Plate
MZ5-255C220□□	0.5~3K	255	220		36	6	2.3	Hot Glue Gun
MZ5-280C24□□	8~20	280	24		24	15	1.4	Air Heater
MZ5-280C120□□	300~800	280	120		24	15	2.5	Air Heater
MZ5-280C220□□	0.8~3.5K	280	220		24	15	2.5	Air Heater
MZ5-280C380□□	3~8K	300	380		24	15	3.5	Water Heater
MZ5-300C220□□	1.5~4K	300	220		24	15	2.5	Water Heater

### Notes:

- The bigger thickness, the higher voltage withstanding and reliability. Select thicker PTC for high voltage and reliability. .
- Large PTC ceramic size tend to crack easier. Assemble several small PTCs while larger heater needed.
- Custom size available.