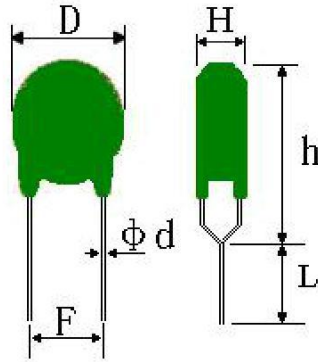


一、Dimension, marking and encapsulation

1.Dimension

Dimension : (mm)						
D _{max}	H _{max}	F	h _{max}	L _{min}	d	
13.0	5.0	5.0±1.0	17.0	3.0	0.60±0.10	

2. Model marking

Model	SPMZB-13 25Ω±25%
Marking	240V 03

3.Encapsulation material and color

■ Silicone resin	■ Green
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4. Lead wire

■ Tinned copper wire	■ Kink
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二. Electrical properties

NO.	Item	Test conditions and methods	Technical requirement
2.0	Standard test conditions	25±2℃、65%RH	
2.1	Rated Zero Power Resistance (R _n)	Test sample is placed in still air at 25 ±2℃ for 2 hours then use a resistor meter with a precision not less than 0.1to measure.	25Ω±25%
2.2	Non-operating current	Put PTC in still air with temperature of 25 +2℃,supply 220 VAC, 123 mA current, lasting for 60 minutes.	123mA △R/R _n ≤50%
2.3	Operating characteristic	Put the PTC in an environment with a temperature of 25 ± 2 ° C.Power supply 220VAC, 245mA, the PTC enters a high resistance state within 5 minutes.	245mA≤5min
2.4	Curie temperature	Place the PTC in an incubator at 5 minutes / °C heating rate, using a multimeter to measure the zero power resistance value,The resistance is equal to 2 times the room temperature resistance.	115±7℃
2.5	Maximum operating voltage	Starting 1A current at ambient temperature of 25 ± 2 ° C ,lasting 10S, sudden break to 440VAC, lasting 10S,After standing for 24 hours, retest the zero power resistance value according to 2.1.	440VAC △R/R _n ≤30%
2.6	Recovery time	The spent time that place the PTC in still air at a temperature of 25 ± 2 ° C, power supply 220VAC, starting current 1A,Naturally cooled after 30S, the PTC resistor is restored to 2R _n .	≤1min

三. Mechanical character

NO.	Item	Test conditions and methods	Technical requirement
3.1	Appearance	eye-measurement	Surface should be bright and smooth, printing should be clear, without any reduction damage of usability.
3.2	Leading end strength	Follow GB/T 2423.29 standard to test	No mechanical damage
3.3	Vibration test	Frequency range: 10Hz-55 Hz-10 Hz; 。 Displacement amplitude: 0.75 mm Test according to 4.16 of GB10193-88	No mechanical damage
3.4	Solderability	Test according to GB2423-28 Solder bath method, temperature: 235±5℃; immersion time 2±0.5 seconds; impregnation depth 2±0.5mm。	At least 95% continuous new solder on the terminal
3.5	Resistance to welding heat	Test according to GB2423-29 .After standing for 24 hours at room temperature, retest zero power Resistance value.	Resistance change rate before and after the experiment $\Delta R/R_n \leq 20\%$

四. Endurance test

NO.	Item	Test conditions and methods	Technical requirement
4.1	High temperature storage	After being placed at 125±2℃ temperature without load for 1000 hours, place in normal temperature and humidity for 1 to 2 hours, and measure its characteristic.	Nominal resistance change rate $\leq \pm 15\%$
4.2	Wet storage	Place at 40±2℃, 90%-95% RH without load for 1000 hours, then take it to normal temperature and humidity for 1 to 2 hours, after that measure its characteristics	
4.3	Low temperature storage	After 1000 hours without load at -40±2℃ temperature, take it in normal temperature and humidity, place for 1 to 2 hours, and measure its characteristics.	

五. Product use environment

Relative humidity	≤95%
Atmosphere	86-106Kpa
Shake frequency	10-50Hz
Acceleration	98m/S ²
Storage temperature	-40-85℃