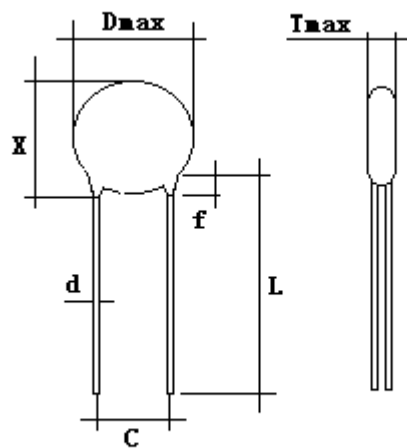


SPECIFICATION FOR Power NTC thermistors

NTC 5D-25

1.TYPE No: NTC5D-25



2. PHYSICAL DIMENSIONS:

规格	尺寸(mm)				
	Dmax	Lmax	C+/-1	Tmax	d+/-0.5
Φ 25	29	30	10	8	1.0

3.ENVELOPMENT AND LEAD WIRE:

Envelopment material: bakelite

lead wire:Sn-Cu lead

4. ELECTRICAL CHARACTERISTICS:

Resistance at 25℃ (ohm): 5ohm

Max steady state current(A): 14A

Thermal dissipation constant: >30mw/℃

Thermal time constant: <130sec

Temperature range: -40~170℃

5.RELIABILITY TEST:

	Ltem	Specifications	Test condition
5.1	Solderability	More than 95% of termination Should be covered with new solder	Temperature: 235+/-2℃ Solder:Sn:pb=60:40 Duration:2+/-2.5s
5.2	Resistance to soldering heat	No evidence of damage $\Delta R/R \leq +/ -3\%$ $\Delta B/B \leq +/ -2\%$	Temperature: 235+/-2℃ Solder:Sn:pb=60:40 Duration:5+/-0.5s
5.3	Terminal strength	No evidence of damage $\Delta R/R \leq +/ -3\%$ $\Delta B/B \leq +/ -2\%$	Applied specified pull strength(5.0kg) for one minute X Y and Z direction 4h/direction Acceleration: 200m/s
5.4	Vibration		
5.5	Resistance value	$\Omega +/ -20\%$	Test voltage:1.5VDC Temperature: 25+/-2℃
5.6	Insulation resistance	$\geq 500M \Omega$	Test voltage: 500VDC
5.7	Dielectric withstanding voltage	No evidence of damage or flash over No discharge during test	Apply 700VAC voltage between termination for one second Current allowable value: 5mA
5.8	Temperature shock	No evidence of damage $\Delta R/R \leq +/ -3\%$ $\Delta B/B \leq +/ -2\%$	Temperature: -55℃ ~ 170℃ 5 cycles 30min for each
5.9	Storage temperature	No evidence of damage Insulation resistance $\geq 100M \Omega$ $\Delta R/R \leq +/ -3\%$ $\Delta B/B \leq +/ -2\%$	Subjected at the following temperature: 5. 180+/-2℃ for 48hours 6. -62+/-2℃ for 3hours
5.10	Withstanding current shock	No evidence of damage $\Delta R/R \leq +/ -3\%$ $\Delta B/B \leq +/ -2\%$	Temperature: 25+/-2℃ Current: A

Note: B constant test:

Resistance value of NTC thermistors shall be tested after 24 hours at room temperature (25+/-1℃)