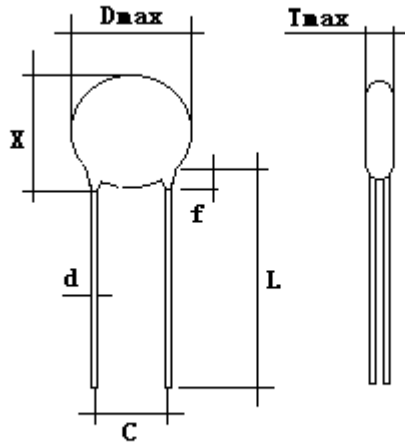


SPECIFICATION FOR Power NTC thermistors

NTC 10D-25

1. TYPE No: NTC10D-25



2. PHYSICAL DIMENSIONS:

规格	尺寸(mm)				
	D_{max}	L_{max}	$C\pm 1$	T_{max}	$d\pm 0.5$
$\Phi 25$	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°C (ohm): 10ohm

Max steady state current(A): 10A

Thermal dissipation constant: $>30\text{mw}/^\circ\text{C}$

Thermal time constant: $<130\text{sec}$

Temperature range: $-40\sim 170^\circ\text{C}$

5.RELIABILITY TEST:

	Ltem	Specifications	Test condition
5.1	Solderability	More than 95% of termination Should be covered with new solder	Temperature: 235+/-2°C 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°C Solder:Sn:pb=60:40 Duration:5+/-0.5s
5.3	Terminal strength	No evidence of damage	Applied specified pull strength(5.0kg) for one minute X Y and Z direction 4h/direction Acceleration: 200m/s
5.4	Vibration	$\Delta R/R \leq +/ -3\%$ $\Delta B/B \leq +/ -2\%$	
5.5	Resistance value	$\Omega \pm 20\%$	Test voltage:1.5VDC Temperature: 25+/-2°C
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 °C \leftrightarrow 170 °C 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: 7. 180+/-2°C for 48hours 8. -62+/-2°C for 3hours
5.10	Withstanding current shock	No evidence of damage $\Delta R/R \leq +/ -3\%$ $\Delta B/B \leq +/ -2\%$	Temperature: 25+/-2°C Current: A

Note: B constant test:

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