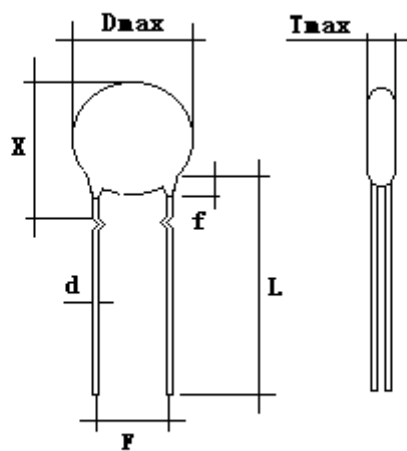


SPECIFICATION FOR

Power NTC thermistors

NTC 220D-15

1. TYPE No: NTC220D-15



2. PHYSICAL DIMENSIONS:

规格	尺寸(mm)				
	D_{max}	L_{max}	$C_{\pm 1}$	T_{max}	$d_{\pm 0.5}$
$\Phi 15$	16.4	29	7.5	6	0.7

3. ENVELOPMENT AND LEAD WIRE:

Envelopment material: bakelite

lead wire: cp lead

4. ELECTRICAL CHARACTERISTICS:

Resistance at 25°C (ohm): 220ohm (176~264ohm)

Max steady state current(A): 1.5A

Thermal dissipation constant: 19mw/°C

Thermal time constant: 90sec

Temperature range: -40~170°C

Remain Resistance: 6310mohm

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 △ R/R≤+/-3% △ B/B≤+/-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	△ R/R≤+/-3% △B/B≤+/-2%	
5.5	Resistance value	Ω +/-20%	Test voltage:1.5VDC Temperature: 25+/-2°C
5.6	Insulation resistance	≥500M Ω	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 △ R/R≤+/-3% △B/B≤+/-2%	Temperature: -55°C~170°C 5 cycles 30min for each
5.9	Storage temperature	No evidence of damage Insulation resistance≥100M Ω △ R/R≤+/-3% △B/B≤+/-2%	Subjected at the following temperature: 1. 180+/-2°C for 48hours 2. -62+/-2°C for 3hours
5.10	Withstanding current shock	No evidence of damage △ R/R≤+/-3% △B/B≤+/-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)