

Product Specification

client's name:

D02

CUSTOMER

product name:

PART NAME

NTC Thermostor

Product specifications:

PART NUMBER

L-KLS6-MF11-472K3950JA

date:

DATE

December 20 , 2023

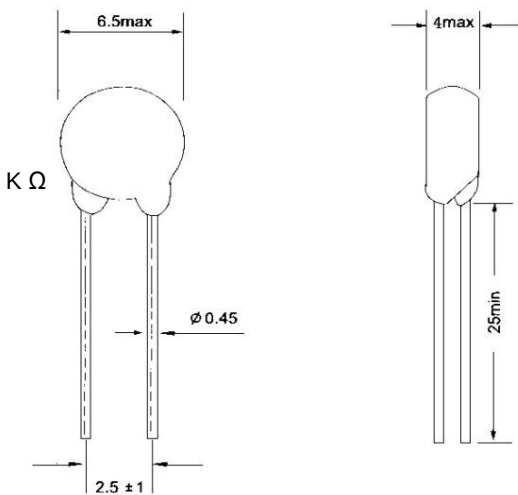
Main technical parameters of negative temperature coefficient thermistor

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Model: L-KLS6-MF11-472K3950JA

1. General parameters

1) Size (mm)



2) MaterialMaterial:

2-1) Encapsulation material: 2-2)

Epoxy resinEpoxy resin

Leading wire:

Tinned copper clad steel wire CP Wire

2-3) ColorColour:

black black

2. Electric parameter characteristics

1) 25°C (K Ω)	:	4.7K±10%
0 power resistance at 25 degrees Celsius		
2)B value (K):		3950±5%
B value		
3) Thermal time constant (S):		≤30
Thermal time constant		
4) Dissipation coefficient (mw /°C):		≥6
Dissipation coefficient		
5) Working temperature (°C):		-55-+125
Operating temperature		
6) Insulation resistance (MΩ):		≥500
Insulation resistance		
7)Withstand voltage (V/AC):		700
Proof voltage		

Terminology and general characteristics

Term name	It shows that at	Performance requirements
Zero power resistance value	25ÿ, when the electric current is caused by the internal heating of the resistor, The change in resistance is negligible relative to the total measurement error. The measured resistance value.	See electrical characteristic parameters
B value	The B value can use the zero power resistance value at 25°C and 50°C Calculated. Its calculation formula is: $B = \frac{T_1 \times T_2}{T_2 - T_1} \times \ln \left(\frac{R_{T1}}{R_{T2}} \right)$	See electrical characteristic parameters
Maximum steady state current	Thermistor is allowed to be applied when the ambient temperature is 25°C maximum continuous current on the	See electrical characteristic parameters
dissipation coefficient	device. At a specified temperature, the power dissipated in the thermistor becomes ratio to the corresponding temperature change of the thermistor. Its unit: mW/°C	See electrical characteristic parameters
Thermal time constant	Under zero power conditions, when the temperature changes, the thermal The temperature change of the resistor is the difference between its initial and final temperatures 63.2% of the time required.	See electrical characteristic parameters
Operating temperature	The temperature range allowed by the thermistor for long-term continuous operation	-55 – +125°C
The rated temperature is	around. the temperature change range when operating at operating current.	-55 – +125°C
rapid temperature changes	-55°C+125°C Recovery time: 4h post-test inspection Visual inspection mark zero power resistor	no visible damage clear sign R/R ≤ ±3%

Term name	Description	Performance requirements
Steady state moist heat	Temperature: +40°C, Humidity: 93±3%, Time: 48± 2h Appearance inspection mark Zero power resistance value Voltage resistance insulation resistance	No visible damage and clear signs $R/R \leq \pm 5\%$ No breakdown or arcing ≥ 100 $M\Omega$
Terminal strength	Pulling force: 10N Time: 10±1S Appearance inspection Zero power resistance value	no visible damage $R/R \leq \pm 2\%$
Resistant to welding heat	Put the thermistor lead in the solder liquid at 265±5°C, with the liquid level 6mm away from the resistor for 5±1 seconds. Return to original condition at room temperature.	no visible damage $R/R \leq \pm 2\%$
Solderability	The leads are immersed in tin liquid at 235±5°C for 3 seconds. The solder	coating area is more than 95%
Withstand voltage	Test voltage AC: 700V, time 1 minute, voltage is applied between the resistor lead and the insulation layer.	No breakdown or arcing
Insulation resistance test	test voltage DC : 100V, time 1 minute.	$\geq 500M\Omega$