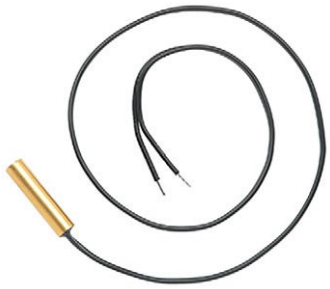
NTC Thermistors, Special Long Lead Sensors



LINKS TO ADDITIONAL RESOURCES

3D Models | Design Tools | Related Documents

QUICK REFERENCE DATA

PARAMETER	VALUE	UNIT
Resistance value at 25 °C	10K	Ω
Tolerance on R_{25}-value	± 3	%
$B_{25/85}$-value	3984	K
Tolerance on $B_{25/85}$-value	± 0.5	%
Dissipation factor:	6.0	mW/K
Response time [1]:	≈ 10	s
Operating temperature range: At zero dissipation (continuously)	-40 to +105	°C
Min. dielectric withstanding voltage between terminals and sensor body	1500	V_{AC}
Weight	25	g

Note

[1] Response time in silicone oil MS 200/50. This is the time needed for the sensor to reach 63.2 % of the total temperature difference when subjected to a temperature change from 25 °C in air to 85 °C in oil

FEATURES

- Accurate over wide temperature range
- High stability
- Excellent price / performance ratio
- High adhesive strength between PVC wire and the encapsulating lacquer
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb e3 RoHS COMPLIANT

APPLICATIONS

Temperature measurement, sensing and control in remote locations and for various environmental conditions.

DESCRIPTION

These sensors exist of a small NTC chip reflow soldered between two AWG24 UL-2651 105 °C rating 300 V wires. They are lacquered and insulated and potted into a brass pipe.

MARKING

UL mark on wire, no mark on body.

PACKAGING

The thermistors are packed in cardboard boxes; each box containing 500 pieces.

DESIGN-IN SUPPORT

- For complete curve computation, please visit: www.vishay.com/en/thermistors/ntc-rt-calculator/
- Other wire length and wire type are available on request. The products can be provided with a connector on request with a minimum buy constraint

MOUNTING

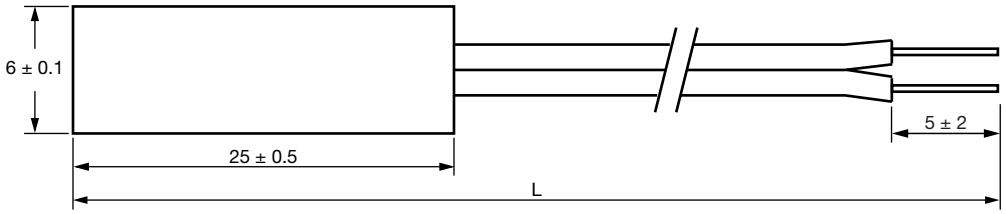
By soldering or clamping the wire ends, in any position. Body can be inserted or taped attached. Not intended for fluid immersed applications.

ELECTRICAL DATA AND ORDERING INFORMATION

R_{25} (Ω)	R_{25}-TOL. (± %)	$B_{25/85}$ (K)	$B_{25/85}$-TOL. (± %)	LEAD LENGTH (mm)	SAP MATERIAL AND ORDERING NUMBER
10 000	3	3984	0.5	1500 ± 20	NTCAPIPE3C90105

DIMENSIONS in millimeters

Brass-pipe type



Note

- L: refer to table

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