

Vishay BCcomponents

# **NTC Thermistors, Long Non-Insulated Leads**



### **LINKS TO ADDITIONAL RESOURCES**







QUICK REFERENCE DATA					
PARAMETER	VALUE	UNIT			
Resistance value at 25 °C	10K	Ω			
Tolerance on $R_{25}$ -value	± 5	%			
B <sub>25/85</sub> -value	3977	K			
Tolerance on B <sub>25/85</sub> -value	± 0.75	%			
Maximum power dissipation	100	mW			
Operating temperature range at zero dissipation	-40 to +125	°C			
Response time	0.45	S			
Dissipation factor $\tau$	1.4	mW/K			
Weight	≈ 0.16	g			

#### **FEATURES**

- Long and flexible leads for special mounting or assembly requirements
- Fast response time of less then 0.5 s
- · Small head diameter
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912





#### **APPLICATIONS**

Temperature measurement, sensing and control

#### **DESCRIPTION**

These negative temperature coefficient thermistors consist of a mini-chip soldered between two tinned solid nickel leads. The body of the device is coated with an ocher colored epoxy lacquer.

#### **DESIGN-IN SUPPORT**

For complete curve computation, please visit: www.vishay.com/thermistors/ntc-curve-list/

Other values and tolerances are available on request.

### **PACKAGING**

The thermistors are packed in cardboard boxes; each box containing 1000 units (10 plastic bags, each containing 100 units).

## **MARKING**

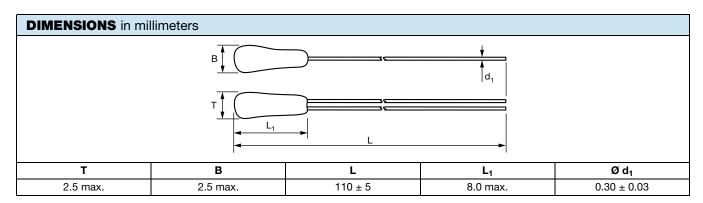
The thermistor body has no marking.

#### **MOUNTING**

Important mounting and handling instructions: see <a href="https://www.vishay.com/doc?29222">www.vishay.com/doc?29222</a>

By soldering in any position.

Not suitable for potted application.



ELECTRICAL DATA AND ORDERING INFORMATION					
R <sub>25</sub>	R <sub>25</sub> -TOL.	B <sub>25/85</sub>	B <sub>25/85</sub> -TOL.	SAP MATERIAL AND ORDERING NUMBER	
<b>(</b> Ω <b>)</b>	(± %)	(K)	(± %)	RoHS COMPLIANT WITH EXEMPTION (1)	RoHS COMPLIANT
10 000	5	3977	0.75	NTCLE201E3C90028	NTCLE201E3C90028A

#### **Notes**

Preferred versions for new designs

<sup>(1)</sup> RoHS exemption 7(c)-I: electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo-electronic devices, or in a glass or ceramic matrix compound



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