

Vishay BCcomponents

# NTC Thermistors, Radial Leaded with Low B<sub>25/85</sub> Values



#### LINKS TO ADDITIONAL RESOURCES



QUICK REFERENCE DATA					
PARAMETER	VALUE (per case)	UNIT			
Resistance value at 25 °C	5K, 10K	Ω			
Tolerance on $R_{25}$ -value	± 1	%			
B <sub>25/85</sub> -value	3324, 3435	К			
Tolerance on B <sub>25/85</sub> -value	± 1	%			
Operating temperature range at zero dissipation <sup>(1)</sup>	-55 to +125	°C			
Response time (63.2 %) 25 °C to 85 °C in oil	1.2	s			
Dissipation factor $\delta$ in still air	7	mW/K			
Maximum power dissipation at max. 55 °C	250	mW			
Weight	≈ 0.22	g			

#### Note

 (1) Zero dissipation is considered as measurement power less than 1 % of max power

#### FEATURES

- Alternate B<sub>25/85</sub> to the NTCLE100.. series
- Linearization possible over a wider range of temperature because lower sensitivity than standard NTCLE101...SB0 (lower B<sub>25/85</sub> values)



- Delivered in bulk (delivery on tape and reel possible)
  COMPLIANT
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

#### APPLICATIONS

• Temperature measurement, sensing, control, and compensation

#### DESCRIPTION

These thermistors have a NTC chip soldered between two solid copper wires. They are gray lacquered and marked with a color dot.

### MOUNTING

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

By soldering in any position. Not intended for potted applications.

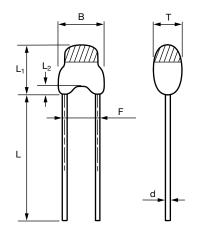
#### PACKAGING

The thermistors are packed in cardboard boxes, each box contains 500 units.

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

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

ELECTRICAL DATA AND ORDERING INFORMATION							
<b>R</b> 25 (Ω)	R <sub>25</sub> -TOL. (± %)	B <sub>25/85</sub> (K)	B <sub>25/85</sub> -TOL. (± %)	DESCRIPTION	SAP MATERIAL AND ORDERING NUMBER	COLOR CODE	
5000	1	3324	1	NTC copper 0.6 color coded 5K 1 % bulk e3	NTCLE101E3C90172	Red	
10 000	1	3435	1	NTC copper 0.6 color coded 10K 1 % bulk e3	NTCLE101E3C90173	White	



DIMENSIONS in millimeters				
PARAMETER	VALUE			
B max.	3.5			
T max.	2.8			
L <sub>1</sub> max.	8			
L <sub>2</sub>	2 ± 1			
L min.	17			
F	2.54			
d	$0.6 \pm 0.06$			

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1 For technical questions, contact: <u>nlr@vishay.com</u> Document Number: 29152

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