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Vishay BCcomponents

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



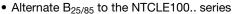
## **LINKS TO ADDITIONAL RESOURCES**

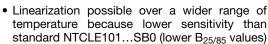


QUICK REFERENCE DATA					
PARAMETER	VALUE (per case)	UNIT			
Resistance value at 25 °C	5K, 10K	Ω			
Tolerance on R <sub>25</sub> -value	± 1	%			
B <sub>25/85</sub> -value	3324, 3435	K			
Tolerance on B <sub>25/85</sub> -value	± 1	%			
Operating temperature range at zero dissipation (1)	-55 to +125	°C			
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

### **FEATURES**







Delivered in bulk (delivery on tape and reel possible)

ROHS

 Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912">www.vishav.com/doc?99912</a>

## **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 www.vishay.com/doc?29222

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

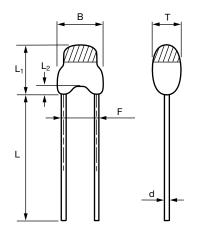
### **PACKAGING**

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> <sub>25</sub> (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	$0.6 \pm 0.06$			

<sup>(1)</sup> Zero dissipation is considered as measurement power less than 1 % of max power



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