



**THE DATASHEET OF  
NTCLE101E3C90173**



## NTC Thermistors, Radial Leaded with Low $B_{25/85}$ Values



### LINKS TO ADDITIONAL RESOURCES



QUICK REFERENCE DATA		
PARAMETER	VALUE (per case)	UNIT
Resistance value at 25 °C	5K, 10K	$\Omega$
Tolerance on $R_{25}$ -value	$\pm 1$	%
$B_{25/85}$ -value	3324, 3435	K
Tolerance on $B_{25/85}$ -value	$\pm 1$	%
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	$\approx 0.22$	g

#### Note

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

### FEATURES

- Alternate  $B_{25/85}$  to the NTCLE100.. series
- Linearization possible over a wider range of temperature because lower sensitivity than standard NTCLE101...SB0 (lower  $B_{25/85}$  values)
- Delivered in bulk (delivery on tape and reel possible)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT

### 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](http://www.vishay.com/doc?29222)

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

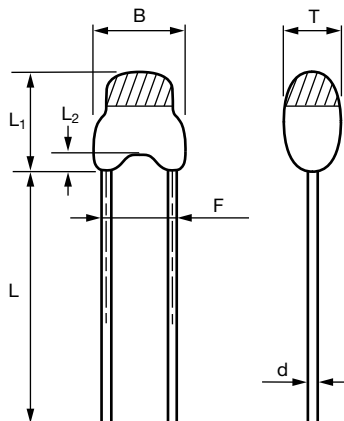
### PACKAGING

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/](http://www.vishay.com/thermistors/ntc-curve-list/).

ELECTRICAL DATA AND ORDERING INFORMATION						
$R_{25}$ ( $\Omega$ )	$R_{25}$ -TOL. ( $\pm$ %)	$B_{25/85}$ (K)	$B_{25/85}$ -TOL. ( $\pm$ %)	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
$L_1$ max.	8
$L_2$	$2 \pm 1$
L min.	17
F	2.54
d	$0.6 \pm 0.06$



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