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



LINKS TO ADDITIONAL RESOURCES

Related Documents

QUICK REFERENCE DATA		
PARAMETER	VALUE (per case)	UNIT
Resistance value at 25 °C	5K, 10K	Ω
Tolerance on R_{25}-value	± 1	%
$B_{25/85}$-value	3324, 3435	K
Tolerance on $B_{25/85}$-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 δ 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 $B_{25/85}$ 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

Pb e3 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

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

PACKAGING

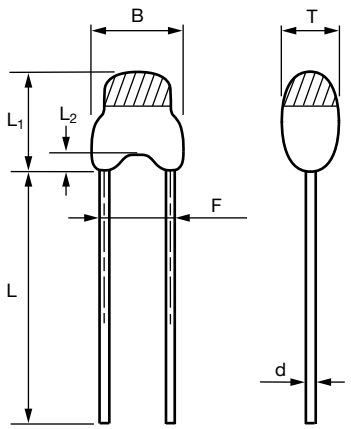
The thermistors are packed in cardboard boxes, each box contains 500 units.

DESIGN-IN SUPPORT

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

ELECTRICAL DATA AND ORDERING INFORMATION

R_{25} (Ω)	R_{25}-TOL. (± %)	$B_{25/85}$ (K)	$B_{25/85}$-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_1 max.	8
L_2	2 ± 1
L min.	17
F	2.54
d	0.6 ± 0.06

For technical questions, contact: nlr@vishay.com

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