

NTC Thermistors, Long Non-Insulated Leads



LINKS TO ADDITIONAL RESOURCES



3D Models



Design Tools



Related Documents

QUICK REFERENCE DATA		
PARAMETER	VALUE	UNIT
Resistance value at 25 °C	10K	Ω
Tolerance on R_{25} -value	± 5	%
$B_{25/85}$ -value	3977	K
Tolerance on $B_{25/85}$ -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 τ	1.4	mW/K
Weight	≈ 0.16	g

FEATURES

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


RoHS
COMPLIANT

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 other 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.

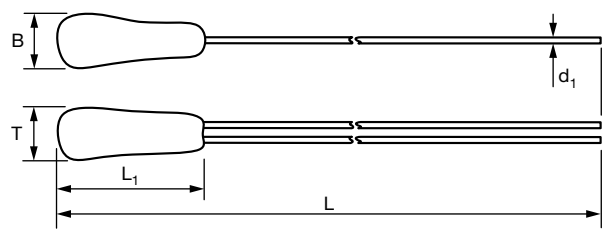
MOUNTING

Important mounting and handling instructions: see

www.vishay.com/doc?29222

By soldering in any position.

Not suitable for potted application.

DIMENSIONS in millimeters				
				
T	B	L	L ₁	Ø d ₁
2.5 max.	2.5 max.	110 ± 5	8.0 max.	0.30 ± 0.03

ELECTRICAL DATA AND ORDERING INFORMATION					
R_{25} (Ω)	R_{25} -TOL. ($\pm$ %)	$B_{25/85}$ (K)	$B_{25/85}$ -TOL. ($\pm$ %)	SAP MATERIAL AND ORDERING NUMBER	
10 000	5	3977	0.75	RoHS COMPLIANT WITH EXEMPTION (1)	RoHS COMPLIANT
				NTCLE201E3C90028	NTCLE201E3C90028A

Notes

 Preferred versions for new designs

(1) 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



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.