

NTC Thermistors, Standard Lug Sensors, 150 °C


RoHS
COMPLIANT

FEATURES

- 150 °C long term stability (5000 h dry heat)
- Easy mounting using ring tongue terminal
- Rugged construction
- Cable of ETFE insulation according to NEMA HP-3, type Z, rated 600 V_{RMS}, cable test voltage **3.4 kV**
- AEC-Q200 qualified (grade 1)
- UL recognized, file E148885 (UL category XGPU2)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Suitable for surface sensing applications, especially when a good electrical insulation and a good thermal contact with the chassis is required for:
 - Automotive equipment
 - EV and battery management
 - Power electronics, heat sink
 - Consumer appliances

QUICK REFERENCE DATA

PARAMETER	VALUE	UNIT
Resistance value at 25 °C	10 000	Ω
Tolerance on R ₂₅ -value	± 2	%
B _{25/85} -value	3984	K
Tolerance on B _{25/85} -value	± 0.5	%
Operating temperature range at zero dissipation	-40 to +150	°C
Min. dielectric withstanding voltage between terminals and lug ⁽¹⁾	2700 (3 s)	V _{AC}
Insulation resistance between terminals and lug at 500 V _{DC}	min. 100	MΩ
Weight	1.6	g

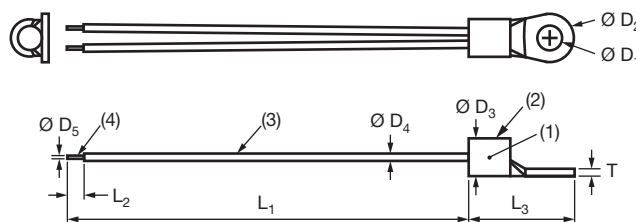
Note

- Maximum leakage current 10 mA.

MOUNTING

- By means of M3 screw. Leads to be soldered or crimped
- The device is suitable for screwing e.g. on metal surface
- The leads are suitable for soldering e.g. on PCB

DIMENSIONS


L₁ = 150 mm ± 10 mm

L₂ = 3.5 mm ± 1 mm

For info: D₁ = 3.7 mm + 0.2 mm / - 0 mm, D₂ = 7.2 mm ± 0.2 mm,

D₃ = 5.6 mm + 0.3 mm / - 0.2 mm, D₄ = 0.93 mm ± 0.1 mm, D₅ = 0.48 mm,

L₃ = 15.7 mm, T = 1 mm

Notes

- (1) NTC chip insulated
- (2) Tin plated ring tongue silver plated copper terminal
- (3) Multi stranded copper AWG26 cable, ETFE insulated
- (4) End cable stripped

DESIGNERS TOOL

- 3D solid models available
- NTC curve computation:
www.vishay.com/thermistors/curve-computation-list/

ELECTRICAL DATA AND ORDERING INFORMATION

VISHAY SAP ORDERING NUMBER	R ₂₅ -VALUE (Ω)	R ₂₅ TOL. (± %)	B _{25/85} -VALUE (K)	B _{25/85} TOL. (± %)	DESCRIPTION	UL CERTIFICATION
NTCALUG01T103G	10 000	2	3984	0.5	NTC Lug01T 10K 2 % 3984 K 150 °C ETFE AWG26 150 mm	UL



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.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. 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.