

NTC Thermistors, Standard Lug Sensors, 150 °C



FEATURES

- 150 °C long term stability (5000 h dry heat)
- Easy mounting using ring tongue terminal
- Rugged construction
- Cable with 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


RoHS
COMPLIANT

APPLICATIONS

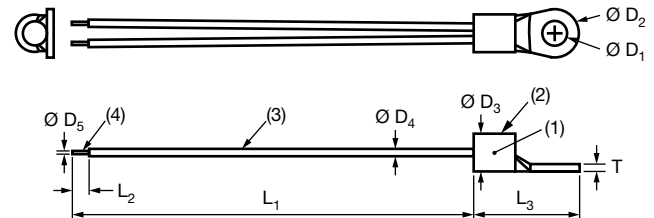
- Suitable for surface sensing applications, especially when a good electrical insulation and a good thermal contact with the chassis is required for:
 - Automotive equipment
 - EV and battery management
 - Power electronics, heat sink
 - Consumer appliances

| QUICK REFERENCE DATA | | |
|--|-------------|-----------------|
| PARAMETER | VALUE | UNIT |
| Resistance value at 25 °C | 10K | 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 | 2700 | V _{AC} |
| Insulation resistance between terminals and lug at 500 V _{DC} | min. 100 | MΩ |
| Weight | 1.6 | g |

MOUNTING

- By means of M3 (Stud 3-4) 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

- Other resistance curves and tolerances are available on request
- Consult Vishay for other lead length, connector crimping or other features
- 3D solid models available
- NTC curve computation:
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 |
| 10 000 | 2 | 3984 | 0.5 | NTC Lug01T 10K 2 % 3984 K 150 °C ETFE AWG26 150 mm | NTCALUG01T103G |



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