

NTC Thermistors, Standard Lug Sensors, 150 °C



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

FEATURES

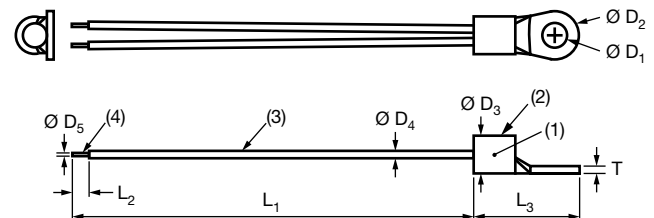
- 150 °C long term stability (5000 h dry heat)
- Easy mounting using ring tongue terminal
- Rugged construction
- Cable with ETFE insulation according to NEMA HP-3, type Z, rated 600 V_{RMS}, cable test voltage **3.4 kV**
- AEC-Q200 qualified (grade 1)
- UL recognized, file E148885 (UL category XGPU2)
- 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

DIMENSIONS



$L_1 = 150 \text{ mm} \pm 10 \text{ mm}$
 $L_2 = 3.5 \text{ mm} \pm 1 \text{ mm}$
 For info: $D_1 = 3.7 \text{ mm} + 0.2 \text{ mm} / - 0 \text{ mm}$, $D_2 = 7.2 \text{ mm} \pm 0.2 \text{ mm}$,
 $D_3 = 5.6 \text{ mm} + 0.3 \text{ mm} / - 0.2 \text{ mm}$, $D_4 = 0.93 \text{ mm} \pm 0.1 \text{ mm}$, $D_5 = 0.48 \text{ mm}$,
 $L_3 = 15.7 \text{ mm}$, $T = 1 \text{ mm}$

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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