



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## 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<sub>RMS</sub>, 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](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

### APPLICATIONS

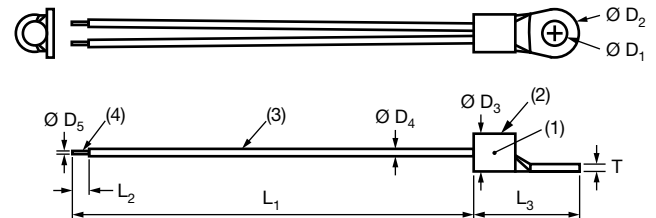
- Suitable for surface sensing applications, especially when a good electrical insulation and a good thermal contact with the chassis is required for:
  - Automotive equipment
  - EV and battery management
  - Power electronics, heat sink
  - Consumer appliances

QUICK REFERENCE DATA		
PARAMETER	VALUE	UNIT
Resistance value at 25 °C	10K	Ω
Tolerance on R <sub>25</sub> -value	± 2	%
B <sub>25/85</sub> -value	3984	K
Tolerance on B <sub>25/85</sub> -value	± 0.5	%
Operating temperature range at zero dissipation	-40 to +150	°C
Min. dielectric withstanding voltage between terminals and lug	2700	V <sub>AC</sub>
Insulation resistance between terminals and lug at 500 V <sub>DC</sub>	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



$L_1 = 150 \text{ mm} \pm 10 \text{ mm}$   
 $L_2 = 3.5 \text{ mm} \pm 1 \text{ mm}$   
 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/](http://www.vishay.com/thermistors/ntc-curve-list/)

ELECTRICAL DATA AND ORDERING INFORMATION					
R <sub>25</sub> (Ω)	R <sub>25</sub> -TOL. (± %)	B <sub>25/85</sub> (K)	B <sub>25/85</sub> -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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