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### Vishay BCcomponents

## NTC Thermistors, Standard Lug Sensors, 150 °C





#### **ADDITIONAL RESOURCES**







 NTC curve computation: www.vishay.com/thermistors/ntc-curve-list/

QUICK REFERENCE DATA							
PARAMETER	VALUE	UNIT					
Resistance value at 25 °C (1)	10K	Ω					
Tolerance on R <sub>25</sub> -value <sup>(1)</sup>	± 1 to ± 2	%					
B <sub>25/85</sub> -value <sup>(1)</sup>	3435, 3984	K					
Tolerance on B <sub>25/85</sub> -value	± 0.5 to ± 1	%					
Operating temperature range at zero dissipation	-40 to +150	°C					
Min. dielectric withstanding voltage between terminals and lug	2700	V <sub>AC</sub>					
Min. insulation resistance between terminals and lug at 500 V <sub>DC</sub>	100	МΩ					
Weight	2.0 to 3.2	g					

#### Note

#### **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



RoHS

- AEC-Q200 qualified (grade 1)
- UL recognized, file E148885 (UL category XGPU2)
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

#### **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

#### **DESCRIPTION**

A NTC thermistor chip is soldered to AWG#26 multi-stranded silver plated copper leads with ETFE insulation and insulated with epoxy coating. The insulated sensor is attached to a tin plated copper ring lug via a middle buffer layer. The lead wires are twisted.

#### **MOUNTING**

- By means of M3 (stud #3, #4) or M3,5 (stud #5, #6) 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
- Consult Vishay for other cable length, cable section, screw sizes, insulation, connector crimping or other features

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. (± %)	L <sub>1</sub> (mm)	DESCRIPTION	SAP MATERIAL AND ORDERING NUMBER		
						RoHS COMPLIANT WITH EXEMPTION (1)	RoHS COMPLIANT	
10 000	1	3984	0.5	150 ± 10	NTC Lug01T 10K 1 % 3984 K 150 °C ETFE AWG26 150 mm	NTCALUG01T103F	NTCALUG01T103FA	
10 000	1	3435	1.0	150 ± 10	NTC Lug01T 10K 1 % 3435 K 150 °C ETFE AWG26 150 mm	NTCALUG01T103FL	NTCALUG01T103FLA	
10 000	2	3984	0.5	40 ± 5	NTC Lug01T 10K 2 % 3984 K 150 °C ETFE AWG26 40 mm	NTCALUG01T103G400	NTCALUG01T103G400A	
10 000	2	3984	0.5	150 ± 10	NTC Lug01T 10K 2 % 3984 K 150 °C ETFE AWG26 150 mm	NTCALUG01T103G	NTCALUG01T103GA	
10 000	2	3984	0.5	200 ± 10	NTC Lug01T 10K 2 % 3984 K 150 °C ETFE AWG26 200 mm	NTCALUG01T103G201	NTCALUG01T103G201A	
10 000	2	3984	0.5	500 ± 10	NTC Lug01T 10K 2 % 3984 K 150 °C ETFE AWG26 500 mm	NTCALUG01T103G501	NTCALUG01T103G501A	

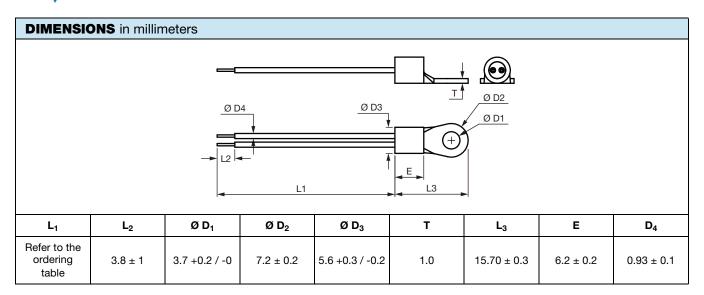
#### Note

<sup>(1)</sup> Other R<sub>25</sub>-values, B<sub>25/85</sub>-values, and tolerances are available upon request

<sup>(1)</sup> 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



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