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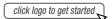
Vishay BCcomponents

NTC Thermistors, Standard Lug Sensors, 150 °C





DESIGN SUPPORT TOOLS







• 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_{25} -value ⁽¹⁾	± 1 to ± 2	%				
B _{25/85} -value ⁽¹⁾	3435, 3984	K				
Tolerance on B _{25/85} -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 _{AC}				
Min. insulation resistance between terminals and lug at 500 V _{DC}	100	ΜΩ				
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_{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

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 ₂₅	R ₂₅ -TOL. (± %)	B _{25/85} (K)	B _{25/85} -TOL. (± %)	L ₁ (mm)	DESCRIPTION	SAP MATERIAL AND ORDERING NUMBER		
(Ω)						with RoHS exemption (1)	without RoHS exemption (1)	
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	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	

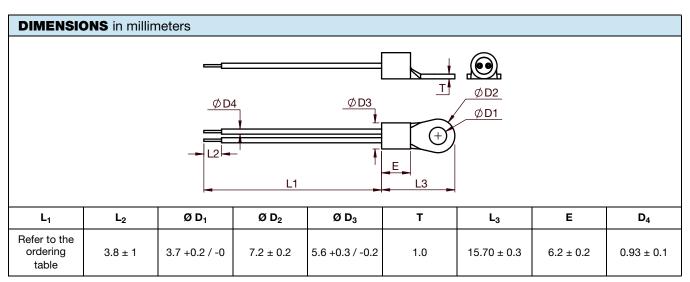
Note

 $^{^{(1)}}$ Other $R_{\rm 25}\text{-}{\rm values},~B_{\rm 25/85}\text{-}{\rm values},~{\rm and}~{\rm tolerances}$ are available upon request

⁽¹⁾ 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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