

Vishay BCcomponents

NTC Thermistors, Standard Lug Sensors





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 ₂₅ -value ⁽¹⁾	± 2 to ± 3	%				
B _{25/85} -value ⁽¹⁾	3435 to 3984	K				
Tolerance on B _{25/85} -value	± 0.5 to ± 1	%				
Operating temperature range at:		°C				
Zero dissipation						
Dissipation factor (2)	≈ 23	mW/K				
Thermal time constant (2)	≈ 7.5	S				
Min. dielectric withstanding voltage between terminals and lug	1500	V _{AC}				
Min. insulation resistance between terminals and lug at 500 V _{DC}	100	МΩ				
Climatic category (LCT / UCT / days)	40 / 150 / 56					
Weight	1.6 to 4.3	g				

Notes

- $^{(1)}$ Other R_{25} -values, $B_{25/85}$ -values, and tolerances are available upon request
- $^{(2)}$ Measured with screw mounted on an aluminum heatsink of 100 cm², thickness 1.5 mm, in still air at T_{amb} = 25 $^{\circ}C$

FEATURES

- Easy mounting using ring tongue terminal
- · Rugged construction
- Cable of PTFE insulation according to NEMA HP-3, type E, rated 600 V_{RMS} ⁽¹⁾
- AEC-Q200 qualified (grade 1)
- cULus recognized, file E148885 (UL category XGPU2/XGPU8)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

(1) Formerly MIL-W-16878/4, type E, cable test voltage 3.4 kV

APPLICATIONS

Suitable for surface sensing applications, especially when a good electrical insulation and a good thermal contact with the chassis is required.

DESCRIPTION

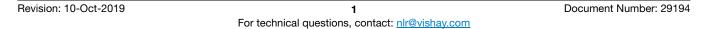
A NTC thermistor chip is soldered to AWG#24 stranded silver plated copper leads with PTFE insulation and insulated with epoxy coating. The insulated sensor is attached to a tin plated copper ring lug. The lead wires are stripped.

PACKAGING

The thermistors are packed in cardboard boxes.

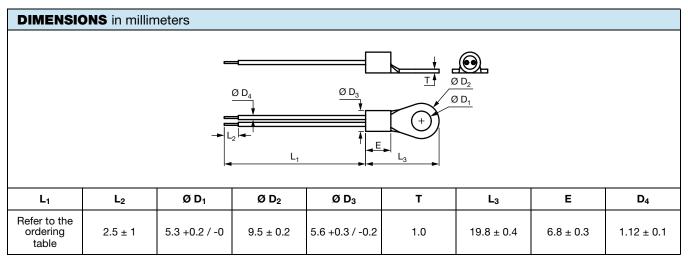
MOUNTING

- By means of M5 (Stud #10) 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





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ELECTRICAL DATA AND ORDERING INFORMATION										
	D TO	0	B _{25/85} -TOL. (± %)	L ₁ (mm)	DESCRIPTION	UL REC. (Y / N)	SAP MATERIAL AND ORDERING NUMBER			
	(± %)	(K)					RoHS COMPLIANT WITH EXEMPTION (1)	RoHS COMPLIANT		
10 000	2	3984	0.5	38.1 ± 3.8	NTC Lug54 M5 10K 2 % 3984 K PTFE AWG#24 38 mm	Υ	NTCALUG54A103G	NTCALUG54A103GA		
10 000	2	3435	1	38.1 ± 3.8	NTC Lug54 M5 10K 2 % 3435 K PTFE AWG#24 38 mm	Υ	NTCALUG54A103GL	NTCALUG54A103GLA		
10 000	2	3984	0.5	350 +10 / -5	NTC Lug54 M5 10K 2 % 3984 K PTFE AWG#24 350 mm	Υ	NTCALUG54A103G351	NTCALUG54A103G351A		
10 000	3	3984	0.5	150 +10 / -5	NTC Lug54 M5 10K 3 % 3984 K PTFE AWG#24 150 mm	Y	NTCALUG54A103H151	NTCALUG54A103H151A		

Note

⁽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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Vishay

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