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Vishay BCcomponents

NTC Thermistors, Standard Lug Sensors, 150 °C





LINKS TO ADDITIONAL RESOURCES









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	МΩ					
Weight	2.0 to 3.2	g					

Note

 Other R₂₅-values, B_{25/85}-values, and tolerances are available upon request

AGENCY APPROVALS

- cUL certificate XGPU8.E148885
- ULus certificate XGPU2.E148885

Note

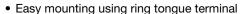
 Agency approval documents, please see: www.vishav.com/ppg?29164&documents

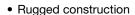
DESIGN-IN SUPPORT

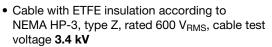
- Other resistance curves and tolerances are available on request
- Consult Vishay for other lead length, other connector crimping, or other features
- 3D solid models: www.vishay.com/doc?29179
- NTC curve computation: <u>www.vishay.com/thermistors/ntc-rt-calculator/</u>

FEATURES

• 150 °C long term stability (5000 h dry heat)









RoHS

- 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

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.

PACKAGING

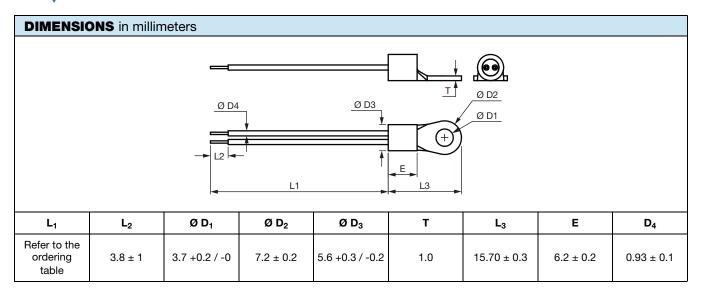
The thermistors are packed in cardboard boxes; the smallest packaging quantity is 200 units.

CAUTIONS AND WARNINGS ON MOUNTING AND HANDLING

Please read the special instructions: see www.vishay.com/doc?29221.

- 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

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ELECTRICAL DATA AND ORDERING INFORMATION									
R ₂₅ (Ω)	R ₂₅ - TOL. (± %)	/K)	B _{25/85} - TOL. (± %) L ₁ (mm)			UL	SAP MATERIAL AND ORDERING NUMBER		
				DESCRIPTION	RECOG.	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	

Notes

Preferred versions for new designs

⁽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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