NTCALUG01A Series

Vishay BCcomponents

NTC Thermistors, Standard Lug Sensors



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www.vishay.com

DESIGN SUPPORT TOOLS



- SPICE models available: www.vishay.com/doc?29178
- NTC curve computation: www.vishay.com/thermistors/ntc-curve-list/

QUICK REFERENCE DATA						
PARAMETER	VALUE	UNIT				
Resistance value at 25 $^{\circ}C$ ⁽¹⁾	4.7K to 100K	Ω				
Tolerance on R_{25} -value ⁽¹⁾	± 1 to ± 5	%				
B _{25/85} -value ⁽¹⁾	3435 to 4190	К				
Tolerance on B _{25/85} -value	± 0.5 to ± 1.5	%				
Operating temperature range at:		°C				
Zero dissipation	-40 to +150					
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	MΩ				
Climatic category (LCT / UCT / days)	40 / 150 / 56					
Weight	1.5 to 2.3	g				

Notes

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- ⁽¹⁾ Other R₂₅-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 °C

FEATURES

- Easy mounting using ring tongue terminal
- Rugged construction
- Cable of PTFE insulation according to NEMA HP-3, type E, rated 600 V_{BMS} ⁽¹⁾, 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

Note

⁽¹⁾ Formerly MIL-W-16878/4, type E

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 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 twisted and tinned.

PACKAGING

The thermistors are packed in cardboard boxes; the smallest packaging quantity is 500 units.

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
- Consult Vishay for other cable length, cable section, screw sizes, insulation, connector crimping, or other features



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DIMENSIONS in millimeters

L ₁	L ₂	Ø D1	Ø D ₂	Ø D3	т	L ₃	E	D ₄		
Refer to the ordering table	3.8 ± 1	3.7 +0.2 / -0	7.2 ± 0.2	5.6 +0.3 / -0.2	1.0	15.70 ± 0.3	6.2 ± 0.2	1.12 ± 0.1		

ELECTRICAL DATA AND ORDERING INFORMATION								
-		Б	B _{25/85} -TOL. (± %)	L ₁ (mm)	DESCRIPTION	SAP MATERIAL AND	UL	
	(± %)	ь _{25/85} (К)				with RoHS exemption ⁽²⁾	without RoHS exemption ⁽²⁾	RECOGNIZED (Y / N)
4700	3	3984	0.5	38.1 ± 3.8	NTC Lug01 4.7K 3 % 3984K PTFE AWG#24 38 mm	NTCALUG01A472H	NTCALUG01A472HA	Ν
10 000	1	3435	1	38.1 ± 3.8	NTC Lug01 10K 1 % 3435K PTFE AWG#24 38 mm	NTCALUG01A103FL	NTCALUG01A103FLA	Y
10 000	1	3984	0.5	38.1 ± 3.8	NTC Lug01 10K 1 % 3984K PTFE AWG#24 38 mm	NTCALUG01A103F	NTCALUG01A103FA	Y
10 000	1	3984	0.5	80 ± 5	NTC Lug01 10K 1 % 3984K PTFE AWG#24 80 mm	NTCALUG01A103F800	NTCALUG01A103F800A	Y
10 000	1	3435	1	80 ± 5	NTC Lug01 10K 1 % 3435K PTFE AWG#24 80 mm	NTCALUG01A103F800L	NTCALUG01A103F804A	Y
10 000	1	3984	0.5	160 +10 / -5	NTC Lug01 10K 1 % 3984K PTFE AWG#24 160 mm	NTCALUG01A103F161	NTCALUG01A103F161A	Y
10 000	1	3435	1	160 +10 / -5	NTC Lug01 10K 1 % 3435K PTFE AWG#24 160 mm	NTCALUG01A103F161L	NTCALUG01A103F165A	Y
10 000	2	3984	0.5	38.1 ± 3.8	NTC Lug01 10K 2 % 3984K PTFE AWG#24 38 mm	NTCALUG01A103G	NTCALUG01A103GA	Y
10 000	3	3984	0.5	38.1 ± 3.8	NTC Lug01 10K 3 % 3984K PTFE AWG#24 38 mm	NTCALUG01A103H	NTCALUG01A103HA	Y
10 000	5	3984	0.5	38.1 ± 3.8	NTC Lug01 10K 5 % 3984K PTFE AWG#24 38 mm	NTCALUG01A103J ⁽¹⁾	NTCALUG01A103JA	Y
47 000	3	4090	1.5	38.1 ± 3.8	NTC Lug01 47K 3 % 4090K PTFE AWG#24 38 mm	NTCALUG01A473H	NTCALUG01A473HA	N
100 000	1	4190	1.5	38.1 ± 3.8	NTC Lug01 100K 1 % 4190K PTFE AWG#24 38 mm	NTCALUG01A104F	NTCALUG01A104FA	N
100 000	2	4190	1.5	38.1 ± 3.8	NTC Lug01 100K 2 % 4190K PTFE AWG#24 38 mm	NTCALUG01A104G	NTCALUG01A104GA	N

Notes

⁽¹⁾ NTCALUG01A103J identical to NTCALUGE2C90169 = 2381 645 90169

⁽²⁾ 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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2 For technical questions, contact: nlr@vishay.com

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