

NTC Thermistors, Long Non-Insulated Leads


RoHS
COMPLIANT

FEATURES

- Long and flexible leads for special mounting or assembly requirements
- Fast response time of less than 0.5 s
- Small head diameter
- Mounting: radial
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Temperature measurement, sensing and control

DESCRIPTION

These negative temperature coefficient thermistors consist of a mini-chip soldered between two tinned solid nickel leads. The body of the device is coated with an orange colored epoxy lacquer.

DESIGN-IN SUPPORT

For complete curve computation, please visit: www.vishay.com/thermistors/ntc-curve-list/. Other values and tolerances are available on request.

PACKAGING

The thermistors are packed in cardboard boxes; each box containing 1000 units (10 plastic bags, each containing 100 units).

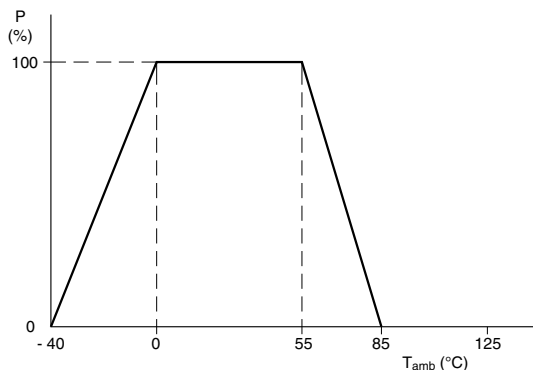
MARKING

The thermistor body has no marking.

MOUNTING

By soldering in any position.
Not suitable for potted application.

DERATING



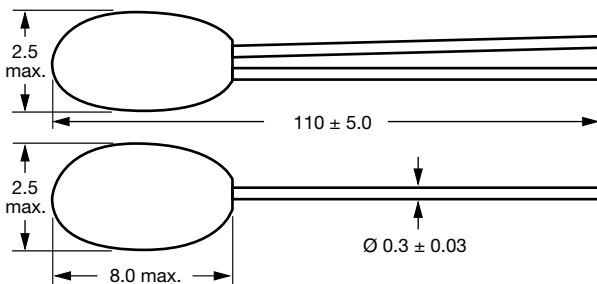
Power derating curve

Note

- Zero power is considered as measuring power max. 1 % of max. power

QUICK REFERENCE DATA		
PARAMETER	VALUE	UNIT
Resistance value at 25 °C	10K	Ω
Tolerance on R ₂₅ -value	± 5	%
B _{25/85} -value	3977	K
Tolerance on B _{25/85} -value	± 0.75	%
Maximum power dissipation	100	mW
Operating temperature range at zero dissipation	-40 to +125	°C
Response time	0.45	s
Dissipation factor τ	1.4	mW/K
Weight	≈ 0.16	g

DIMENSIONS in millimeters



ELECTRICAL DATA AND ORDERING INFORMATION					
R ₂₅ (Ω)	R ₂₅ -TOL. (± %)	B _{25/85} (K)	B _{25/85} -TOL. (± %)	DESCRIPTION	SAP MATERIAL AND ORDERING NUMBER
10 000	5	3977	0.75	NTC nickel 0.3 10K 5 % bulk e3	NTCLE201E3C90028



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