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Vishay BCcomponents

NTC Thermistors, Radial Leaded Special Accuracy



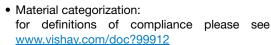


QUICK REFERENCE DATA					
PARAMETER	VALUE	UNIT			
Resistance value at 25 °C	4.7K to 100K	Ω			
Tolerance on R_{25} -value	± 2.19 to ± 2.29	%			
B _{25/85} -value	3977 to 4190	K			
Tolerance on B _{25/85} -value	± 0.75; ± 1.5	%			
Operating temperature range at zero dissipation	-40 to +125	°C			
Accuracy for T measured between 25 °C and 85 °C	± 0.5	°C			
Maximum power dissipation at 55 °C	250	mW			
Dissipation factor δ (for information only)	7	mW/K			
Response time (for information only) (1)	1.2	s			
Thermal time constant τ (for information only)	11	S			
Weight	≈ 0.22	g			

Note

FEATURES

- Excellent accuracy between 25 °C and 85 °C
- · High stability over a long life





RoHS COMPLIANT

APPLICATIONS

• Temperature measurement, sensing, and control

DESCRIPTION

These thermistors have a NTC chip soldered between two tin-plated copper leads. It has a grey lacquered body but is not insulated. These thermistors have an accuracy of $\pm~0.5~^{\circ}\text{C}$ over a trajectory from 25 $^{\circ}\text{C}$ to 85 $^{\circ}\text{C}$.

PACKAGING

The thermistors are packed in cardboard boxes, each box contains 500 units.

MARKING

Grey lacquered body.

MOUNTING

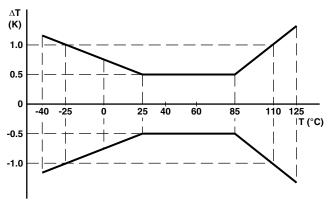
By soldering in any position. Not intended for potted applications.

DESIGN-IN SUPPORT

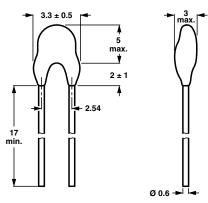
For complete curve computation, please visit: www.vishay.com/thermistors/ntc-curve-list/.

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	
4700	2.19	3977	0.75	NTC copper 0.6 lead 4.7K special tol bulk e3	NTCLE101E3472SB0	
10 000	2.19	3977	0.75	NTC copper 0.6 lead 10K special tol bulk e3	NTCLE101E3103SB0	
47 000	2.23	4090	1.5	NTC copper 0.6 lead 47K special tol bulk e3	NTCLE101E3473SB0	
100 000	2.29	4190	1.5	NTC copper 0.6 lead 100K special tol bulk e3	NTCLE101E3104SB0	

TEMPERATURE ACCURACY GRAPH



DIMENSIONS in millimeters



Revision: 12-Jun-17 1 Document Number: 29046

⁽¹⁾ Response time in silicone oil MS 200/50. This is the time needed for the sensor to reach 63.2 % of the total temperature difference when subjected to a temperature change from 25 °C in air to 85 °C in oil



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