

## 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	$\pm 2.19$ to $\pm 2.29$	%
$B_{25/85}$ -value	3977 to 4190	K
Tolerance on $B_{25/85}$ -value	$\pm 0.75$ ; $\pm 1.5$	%
Operating temperature range at zero dissipation	-40 to +125	°C
Accuracy for T measured between 25 °C and 85 °C	$\pm 0.5$	°C
Maximum power dissipation at 55 °C	250	mW
Dissipation factor $\delta$ (for information only)	7	mW/K
Response time (for information only) <sup>(1)</sup>	1.2	s
Thermal time constant $\tau$ (for information only)	11	s
Weight	$\approx 0.22$	g

**Note**

<sup>(1)</sup> 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

**FEATURES**

- Excellent accuracy between 25 °C and 85 °C
- High stability over a long life
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**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  $\pm 0.5$  °C over a trajectory from 25 °C to 85 °C.

**PACKAGING**

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

**MARKING**

Grey lacquered body.

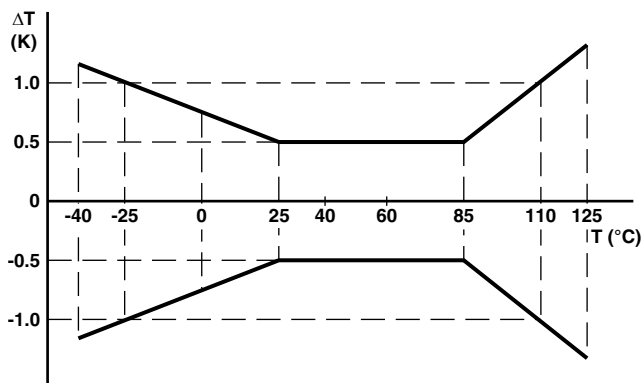
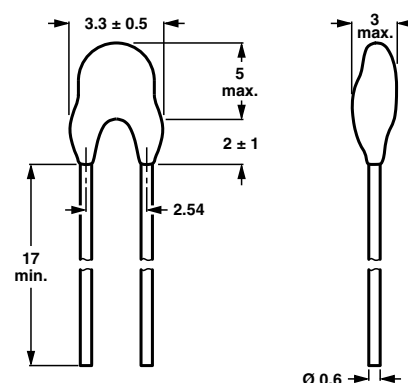
**MOUNTING**

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/](http://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




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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.