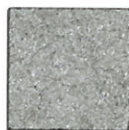


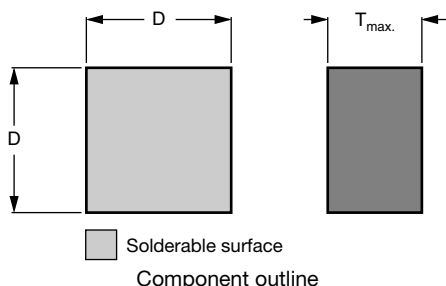
## Leadless NTC Thermistor Dies



### QUICK REFERENCE DATA

PARAMETER	VALUE	UNIT
Resistance value at 25 °C ( $R_{25}$ )	2.2K to 470K	$\Omega$
Tolerance on $R_{25}$ -value	$\pm 1$ ; $\pm 2$ ; $\pm 3$ ; $\pm 5$	%
$B_{25/85}$ -value	3740 to 4570	K
Tolerance on $B_{25/85}$ -value	$\pm 0.75$ to $\pm 2.5$	%
Operating temperature range: at zero dissipation (continuously) for short periods	-40 to +125 $\leq 150$	°C
Climatic category (LCT / UCT / days)	40 / 125 / 56	

### DIMENSIONS in millimeters



### FEATURES

- High stability (tolerance on B-value between  $\pm 2.5$  % and  $\pm 0.75$  %) over a long life
- Excellent price/performance ratio
- For mechanical fixing in a housing or soldering directly to 'non-standard' leads
- Material categorization:  
for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
 COMPLIANT  
 HALOGEN  
**FREE**

### APPLICATIONS

- Temperature measurement, sensing, and control

### DESCRIPTION

These thermistors have a negative temperature coefficient. The device consists of a silver metalized square chip.

### DESIGN-IN SUPPORT

For complete curve computation, visit:  
[www.vishay.com/thermistors/curve-computation-list/](http://www.vishay.com/thermistors/curve-computation-list/)

### PACKAGING

The leadless dies are placed in sealed polythene bags and packed in cardboard boxes. The smallest packaging quantity is 5000 units.

### MOUNTING

By reflow or wave soldering in any position or mechanical fixing in a housing. Soldering directly to "non-standard" leads. Not suitable for ultrasonic soldering or wire bonding.

### ELECTRICAL DATA AND ORDERING INFORMATION

$R_{25}$ ( $\Omega$ )	$R_{25}$ -TOL. ( $\pm$ %)	TCR ( $\%$ /K)	$B_{25/85}$ (K)	$B_{25/85}$ -TOL. ( $\pm$ %)	D (mm)	$T_{max}$ (mm)	SAP MATERIAL AND ORDERING NUMBER <sup>(1)</sup>
2200	1, 2, 3, 5	4.37	3977	0.75	$2.3 \pm 0.4$	1.3	NTCC100E4222*B
2700	1, 2, 3, 5	4.37	3977	0.75	$2.3 \pm 0.4$		NTCC100E4272*B
3300	1, 2, 3, 5	4.37	3977	0.75	$2.0 \pm 0.4$		NTCC100E4332*B
4700	1, 2, 3, 5	4.37	3977	0.75	$2.0 \pm 0.4$		NTCC100E4472*B
5000	1, 2, 3, 5	4.37	3977	0.75	$2.0 \pm 0.4$		NTCC100E4502*B
6000	1, 2, 3, 5	4.37	3977	0.75	$2.0 \pm 0.4$		NTCC100E4602*B
6800	1, 2, 3, 5	4.37	3977	0.75	$2.0 \pm 0.4$		NTCC100E4682*B
8000	1, 2, 3, 5	4.37	3977	0.75	$2.0 \pm 0.4$		NTCC100E4802*B
10 000	1, 2, 3, 5	4.37	3977	0.75	$2.0 \pm 0.4$		NTCC100E4103*B
12 000	1, 2, 3, 5	4.10	3740	2.0	$2.0 \pm 0.4$		NTCC100E4123*B
15 000	1, 2, 3, 5	4.10	3740	2.0	$2.0 \pm 0.4$		NTCC100E4153*B
22 000	1, 2, 3, 5	4.10	3740	2.0	$2.0 \pm 0.4$		NTCC100E4223*B
33 000	1, 2, 3, 5	4.46	4090	1.5	$2.0 \pm 0.4$		NTCC100E4333*B
47 000	1, 2, 3, 5	4.46	4090	1.5	$2.0 \pm 0.4$		NTCC100E4473*B
68 000	1, 2, 3, 5	4.57	4190	1.5	$2.0 \pm 0.4$		NTCC100E4683*B
100 000	1, 2, 3, 5	4.57	4190	1.5	$2.0 \pm 0.4$		NTCC100E4104*B
150 000	1, 2, 3, 5	4.75	4370	2.5	$2.0 \pm 0.4$		NTCC100E4154*B
220 000	1, 2, 3, 5	4.75	4370	2.5	$2.0 \pm 0.4$		NTCC100E4224*B
330 000	1, 2, 3, 5	4.95	4570	1.5	$2.0 \pm 0.4$		NTCC100E4334*B
470 000	1, 2, 3, 5	4.95	4570	1.5	$2.0 \pm 0.4$		NTCC100E4474*B

#### Note

<sup>(1)</sup> Replace \* in SAP part no by J for 5 %, H for 3 %, G for 2 %, and F for 1 % tolerance on  $R_{25}$



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