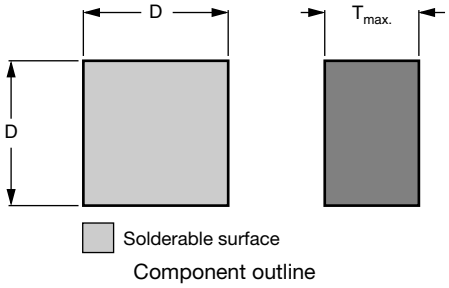
Leadless NTC Thermistor Dies

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

DIMENSIONS in millimeters



FEATURES

- High stability (tolerance on B-value between ± 2.5 % and ± 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

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/

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

Note

(1) 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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