NTC Thermistors, Long Insulated Leads



FEATURES

- Long and flexible leads for special mounting or assembly requirements
- Insulated leads for prevention of short circuits
- Electrical features of 'accuracy line' sensors
- Small diameter.

APPLICATIONS

- Temperature sensing and control.

These thermistors have a negative temperature coefficient. The device consists of a chip with two insulated nickel leads.

PACKAGING

The thermistors are packed in cardboard boxes; the smallest packing quantity is 1000 units.

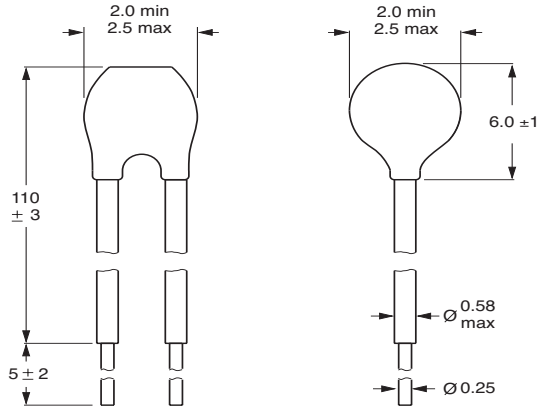
MARKING

The body is coated with ochre-coloured epoxy lacquer and is not marked.

MOUNTING

By soldering in any position

DIMENSIONS in millimeters



QUICK REFERENCE DATA	
PARAMETER	**VALUE**
Resistance value at:	
0 °C	9000 Ω
25 °C	2769 Ω
Tolerance on R_{25}-value:	
0 °C	±2%
25 °C	±3.82%
$B_{25/85}$-value	3977 K
Maximum dissipation	100 mW
Dissipation factor δ	1.35 mW/K
Minimum dielectric withstanding voltage (RMS) between leads and coating	500 V
Response time	1.25 s
Operating temperature range:	
at zero power	–40 to +125 °C
at maximum power	0 to +55 °C
Climatic category	40/125/56
Mass	≈0.16 g

RESISTANCE VALUES AT INTERMEDIATE TEMPERATURES

T_{oper} (°C)	RESISTANCE (Ω)	TC (%/K)	RESISTANCE TOLERANCE (%)
–40	90923	6.57	±5.60
–35	65808	6.35	±5.09
–30	48141	6.15	±4.60
–25	35578	5.95	±4.13
–20	26550	5.76	±3.67
–15	19998	5.58	±3.23
–10	15197	5.40	±2.81
–5	11648	5.24	±2.40
0	9000	5.08	±2.00
5	7008.6	4.92	±2.38
10	5498.8	4.78	±2.76
15	4345.1	4.64	±3.12
20	3457.2	4.50	±3.47
25	2769.0	4.37	±3.82
30	2231.7	4.25	±4.16
35	1809.6	4.13	±4.48
40	1476.0	4.02	±4.80
45	1210.6	3.91	±5.12
50	998.37	3.80	±5.42
55	827.59	3.70	±5.72
60	689.46	3.60	±6.01
65	577.15	3.51	±6.29
70	485.38	3.42	±6.57
75	410.02	3.33	±6.84
80	347.86	3.25	±7.10
85	296.35	3.16	±7.36
90	253.47	3.09	±7.61
95	217.64	3.01	±7.86
100	187.57	2.94	±8.10
105	162.24	2.87	±8.33
110	140.81	2.80	±8.56
115	122.63	2.73	±8.79
120	107.14	2.67	±9.01
125	93.90	2.61	±9.22