

NTC Thermistors, Long Insulated Leads



DESIGN SUPPORT TOOLS AVAILABLE



| QUICK REFERENCE DATA | | |
|---|-------------|------|
| PARAMETER | VALUE | UNIT |
| Resistance value at 25 °C | 2765 | Ω |
| Tolerance on R_{25} -value | ± 2.93 | % |
| $B_{25/85}$ -value | 3977 | K |
| Tolerance on $B_{25/85}$ -value | ± 0.75 | % |
| Operating temperature range at zero dissipation | -40 to +125 | °C |
| Resistance value at 0 °C | 9000 | Ω |
| Tolerance on R_0 -value | ± 2.0 | % |
| Maximum power dissipation at 55 °C | 100 | mW |
| Minimum dielectric withstanding voltage (RMS) between leads and coating | 500 | V |
| Dissipation factor δ (for information only) | 1.35 | mW/K |
| Response time | 1.25 | s |
| Weight | ≈ 0.16 | g |

FEATURES

- Long and flexible leads for special mounting or assembly requirements
- Best accuracy of ± 0.4 °C at 0 °C
- Electrical features of 'accuracy line' sensors
- Small diameter
- RoHS compliant, available with or without exemptions
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATIONS

- Temperature measurement, sensing and control in automotive and industrial applications

DESCRIPTION

These negative temperature coefficient thermistors consist of a mini-chip soldered between two AWG #30 PEEK insulated silver plated nickel leads and coated with other colored epoxy lacquer.

PACKAGING

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

MARKING

The component is not marked.

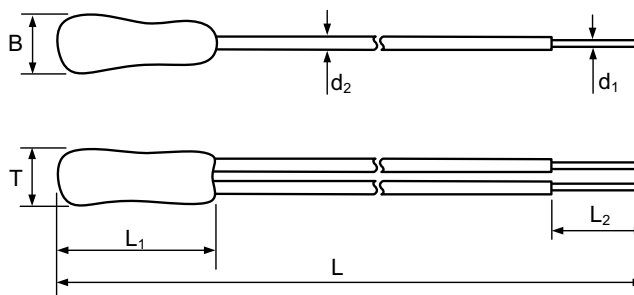
MOUNTING

By soldering in any position.
Part can be potted in suitable resins.

DESIGN-IN SUPPORT

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

DIMENSIONS in millimeters



| T | B | L | L ₁ | L ₂ | ∅ d ₂ MAX. | ∅ d ₁ |
|------------|------------|---------|----------------|----------------|-----------------------|------------------|
| 2.0 to 2.5 | 2.0 to 2.5 | 110 ± 3 | 6 ± 1 | 5 ± 2 | 0.58 | 0.25 ± 0.025 |

ELECTRICAL DATA AND ORDERING INFORMATION

| R_{25} (Ω) | R_{25} -TOL. (± %) | $B_{25/85}$ (K) | $B_{25/85}$ -TOL. (± %) | SAP MATERIAL NUMBER RoHS COMPLIANT WITH EXEMPTIONS | SAP MATERIAL AND ORDERING NUMBER RoHS COMPLIANT WITHOUT EXEMPTIONS |
|-----------------|-------------------------|--------------------|----------------------------|--|---|
| 2765 | 2.93 | 3977 | 0.75 | NTCLE301E4C90059 | NTCLE301E4C90059A |



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