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Vishay BCcomponents

NTC Thermistors, Radial Leaded with Low B_{25/85} Values



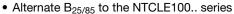
LINKS TO ADDITIONAL RESOURCES

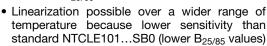


| QUICK REFERENCE DATA | | | | | |
|---|---------------------|------|--|--|--|
| PARAMETER | VALUE (per case) | UNIT | | | |
| Resistance value at 25 °C | 5K, 10K | Ω | | | |
| Tolerance on R ₂₅ -value | ± 1 | % | | | |
| B _{25/85} -value | 3324, 3435 | K | | | |
| Tolerance on B _{25/85} -value | ± 1 | % | | | |
| Operating temperature range at zero dissipation (1) | -55 to +125 | °C | | | |
| Response time (63.2 %) 25 °C to 85 °C in oil | 1.2 | S | | | |
| Dissipation factor δ in still air | 7 | mW/K | | | |
| Maximum power dissipation at max. 55 °C | 250 | mW | | | |
| Weight | ≈ 0.22 | g | | | |

Note

FEATURES







Delivered in bulk (delivery on tape and reel possible)

ROHS

 Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

APPLICATIONS

Temperature measurement, sensing, control, and compensation

DESCRIPTION

These thermistors have a NTC chip soldered between two solid copper wires. They are gray lacquered and marked with a color dot.

MOUNTING

Important mounting and handling instructions: see www.vishay.com/doc?29222

By soldering in any position. Not intended for potted applications.

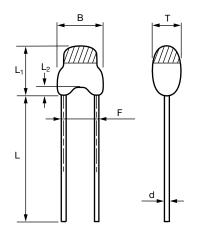
PACKAGING

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

DESIGN-IN SUPPORT

For complete curve computation, please visit: www.vishav.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 | COLOR CODE | |
| 5000 | 1 | 3324 | 1 | NTC copper 0.6 color coded 5K 1 % bulk e3 | NTCLE101E3C90172 | Red | |
| 10 000 | 1 | 3435 | 1 | NTC copper 0.6 color coded 10K 1 % bulk e3 | NTCLE101E3C90173 | White | |



| DIMENSIONS in millimeters | | | | |
|---------------------------|----------------|--|--|--|
| PARAMETER | VALUE | | | |
| B max. | 3.5 | | | |
| T max. | 2.8 | | | |
| L ₁ max. | 8 | | | |
| L ₂ | 2 ± 1 | | | |
| L min. | 17 | | | |
| F | 2.54 | | | |
| d | 0.6 ± 0.06 | | | |

⁽¹⁾ Zero dissipation is considered as measurement power less than 1 % of max power



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