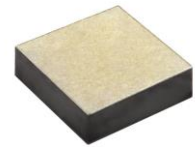




New NTCC201E4 Leadless NTC Thermistor Dies With Silver Metallization Support Wire Bonding, Soldering, and Nano-Silver Paste Sintering, With High Resistance to Leaching, Formic Acid Etching, and Forming Gasses

Product Benefits:

- Contacted on the top and bottom
- Support aluminum wire bonding
- Silver metallization is compatible with reflow soldering under vacuum or with formic acid / forming gasses, SAC or SMP soldering, and nano-silver paste sintering
- Resistant to leaching, formic acid etching, and forming H₂ / N₂ gasses
- AEC-Q200 qualified
- Wide temperature range from -55 °C to +175 °C
- Packaged in PS blister tape
- RoHS-compliant, halogen-free, and Vishay Green



Market Applications:

- Temperature sensing, control, and compensation in automotive and alternative energy applications
- IGBT and power MOSFET modules and power inverters for electric (EV) and hybrid electric vehicles (HEV), solar panels, and wind turbines

The News:

Vishay Intertechnology introduces a new series of leadless NTC thermistor dies — contacted on the top and bottom — that provide designers with versatile mounting options. Vishay BCcomponents NTCC201E4 devices with silver metallization support aluminum wire bonding and are compatible with reflow soldering under vacuum or with formic acid / forming gasses, SAC or SMP soldering, and nano-silver paste sintering.

- The top and bottom metallization of NTCC201E4 thermistors features two layers:
 - An external layer offers superior resistance to soldering leaching compared to previous-generation devices, especially when using high melting point solder materials at temperatures to +360 °C
 - An internal layer resists board formic acid etching when solder preforms are used and forming H₂ / N₂ gasses

The Key Specifications:

- Temperature range: -55 °C to +175 °C
- R₂₅: 4.7 kΩ to 20 kΩ
- Tolerance on R₂₅ value: ± 1 %; ± 2 %; ± 3 %; ± 5 %
- B_{25/85}: 3435 K to 3865 K
- Tolerance on B_{25/85} value: ± 1 %
- Maximum power dissipation: 50 mW
- Response time (still air): 3 s



NEW PRODUCT INFORMATION



Product Group: Vishay BCcomponents, Non-Linear Resistors / June 2022

Availability:

Samples and production quantities of the NTCC201E4 series are available now, with a lead time of 20 weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?29226> (NTCC201E4)

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