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New Commercial-Grade, Surface-Mount NTC Thermistors in the 0201 Case Size

Vishay's new NTCSC0201E3...FLHT series commercial-grade, surface-mount NTC thermistors are available with four resistance values at 25 °C (10 k Ω , 22 k Ω , 47 k Ω , and 100 k Ω) and tolerances of $\pm 1\%$ in the 0201 (0603 metric) case size. Offering nickel barriers and tin electrodeposition, the devices' multilayer technology and compact size make them ideal for commercial applications like temperature compensation for transistors, ICs, and crystal oscillators in mobile communications (TCXOs). Possible applications also include temperature sensing for rechargeable batteries and current mitigation of LEDs, as well as VCSELs for optical applications like lidar. The NTC thermistors can also be used for temperature compensation in electric circuits for general use. These commercial-grade products offer UL 1434 qualification, but are not qualified to AEC Q200. Therefore, they are not recommended for automotive applications.

Key Advantages

- Very small size 0201 (0603 metric)
- R25 range from 10 k Ω to 100 k Ω , with tolerances of $\pm 1\%$
- RoHS-compliant without exemptions and halogen-free
- UL 1434 approved

Useful Links

- [NTCSC0201E3 product page](#)
- [NTC curve computation web tool](#)
- [Spice models available](#)

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