

## New AEC-Q200 Qualified, Glass Protected NTC Thermistor in 0402 Case Size Combines High $B_{25/85}$ Value of 4311 K With $R_{25}$ Value of 100 k $\Omega$ and Tolerances Down to $\pm 1 \%$

### Product Benefits:

- AEC-Q200 qualified
- Offered in 0402 case size
- High beta ( $B_{25/85}$ ) value of 4311 K
- High electrical resistance at +25 °C ( $R_{25}$ ) value of 100 k $\Omega$
- Fully glass coated and protected
- Tolerances down to  $\pm 1 \%$  for both its  $R_{25}$  and  $B_{25/85}$  values for precise temperature sensing, protection, and compensation
- Wide temperature range of -55 °C to +150 °C
- ESD withstand of > 25 kV in accordance with the Human Body Model (HBM)
- SMD construction with NiSn terminations
- Suitable for wave or reflow soldering
- Delivered on punched paper tape on reels in packages of 10 000 units
- SPICE model available for fast design-in
- RoHS-compliant and halogen-free



### Market Applications:

- Automotive LED modules, electronic control units, sensor clusters, battery packs, and camera, radar, and lidar modules; energy meters; office equipment; and industrial smoke and fire detectors

### The News:

Vishay Intertechnology introduces a new AEC-Q200 qualified, glass protected NTC thermistor in the widely used 0.5 mm by 0.5 mm by 1 mm 0402 case size. The Vishay BCcomponents NTCS0402E3104\*XT combines a high  $B_{25/85}$  value of 4311 K with an  $R_{25}$  value of 100 k $\Omega$ .

- With its industry-standard size, the NTC thermistor provides a drop-in replacement for competing solutions

### The Key Specifications:

Part number	NTCS0402E3104*XT
Case size	0402
$R_{25}$ value	100 k $\Omega$
$R_{25}$ tolerance	$\pm 1 \%$ ; $\pm 2 \%$ ; $\pm 3 \%$ ; $\pm 5 \%$
$B_{25/85}$ value	4311 K
$B_{25/85}$ tolerance	$\pm 1 \%$
Max. power dissipation	70 mW
Operating temp. range	-55 °C to +150 °C



## NEW PRODUCT INFORMATION



**Product Group:** Vishay BCcomponents, Non-Linear Resistors / **December 2025**

### Availability:

Samples and production quantities of the NTCS0402E3104\*XT are available now, with lead times of 13 weeks.

To access the product datasheet on the Vishay Website, go to

<http://www.vishay.com/ppg?29003> (NTCS0402E3.....T)

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