

Designed for Permanent Contact With Variety of Liquids, AEC-Q200 Qualified NTC Immersion Thermistor Delivers Fast 1.5 s Response Time for Liquid-Cooled Automotive Systems, Eliminates the Need for Costly Wire to Wire Connectors

Product Benefits:

- Fast 1.5 s response time to temperature changes
- AEC-Q200 qualified
- Compact design consists of:
 - A miniature NTC thermistor mounted in a stainless steel 316L housing with lead (Pb)-free brass
 - 0.35 mm² AWG#22 insulated lead wires with a FLR2X construction that enables a traction force higher than 30 N
- Customizable with different cable and stripping lengths, gauges, and conductor plating to meet the needs of specific applications



Market Applications:

- Temperature measurement, sensing, and control in liquid-cooled automotive systems such as HEV/EV on-board chargers (OBC) and charging plugs and sockets, in addition to solar heating systems, energy storage systems, industrial drives and tools, and servers

The News:

Vishay Intertechnology introduces a new AEC-Q200 qualified NTC immersion thermistor. Featuring a miniature design with a compact sensor tip and thin insulated wire, the Vishay BCcomponents NTCAIMM66H is ideal for the small spaces of liquid-cooled automotive systems, where it provides a fast 1.5 s response time to temperature changes.

- The device's lead wires with a FLR2X construction allow for direct crimping with automotive connectors – eliminating the need for costly wire to wire connectors – while the stainless-steel housing enables permanent contact with water or other liquids
- Customizable device enables Vishay's customers to integrate the thermistor into their complete sensor solutions for EV powertrain cooling

The Key Specifications:

- Response time: 1.5 s
- Resistance at +25 °C (R_{25}): 10 k Ω
- Tolerance on R_{25} value: $\pm 2\%$
- Beta ($B_{25/85}$): 3984 K
- Tolerance on $B_{25/85}$ value: $\pm 0.5\%$
- Maximum power dissipation: 100 mW
- Operating temperature range: -40 °C to +125 °C



NEW PRODUCT INFORMATION

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



Availability:

Samples and production quantities of the NTCAIMM66H are available now, with lead times of 12 to 14 weeks.

To access the product datasheet on the Vishay Website, go to
<http://www.vishay.com/ppg?29245> (NTCAIMM66H)

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