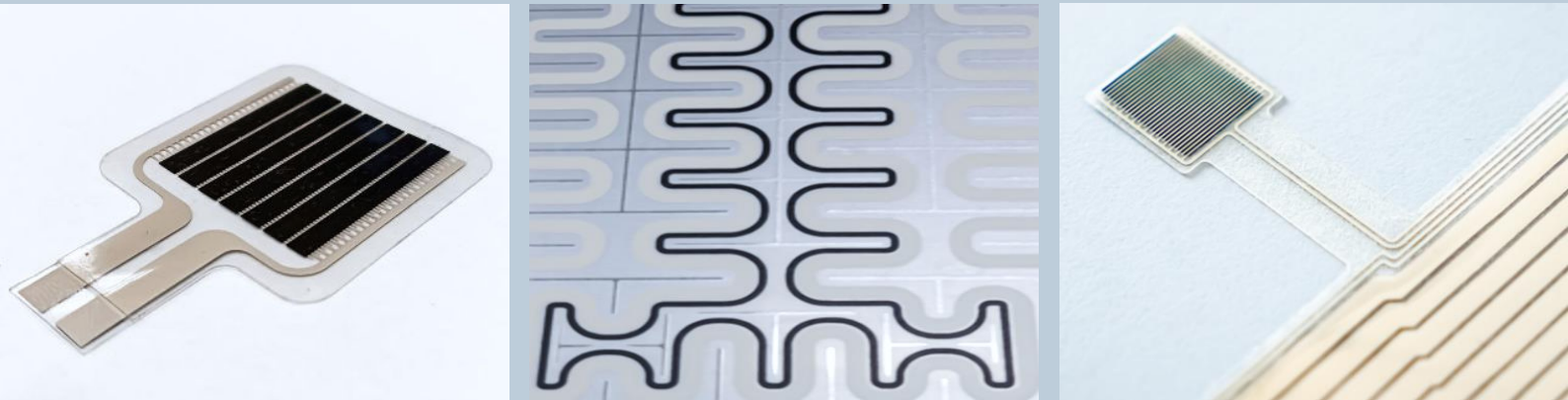




PRINTC®

Introducing the Future of Temperature Sensing: Our Printable NTC Sensor. Explore Seamless Integration, Precise Measurement, and Cost Efficiency in One Innovation



Our sensor is designed to be ultra-thin, with a thickness of below 25 microns, making it the perfect choice for applications where space is at a premium. Unlike traditional surface mount device (SMD) NTC sensors, which can be difficult to hide and may not be able to detect temperature changes in other areas, our printed sensor can be designed as a point sensor or an area sensor, allowing for precise temperature measurement across a wide range of surfaces. Our printed NTC sensor offers a range of advantages over traditional SMD NTC sensors. With its ultra-thin design, it can be seamlessly integrated into a wide range of applications, from automotive armrests to flexible foils. Plus, its ability to function as an area or line sensor means it can accurately detect temperature changes in a way that traditional SMD NTC sensors simply can't match.

SPECIFICATIONS

- $B_{25/100}$: 3.000 K
- R_{25} : 5 ÷ 200 kΩ
- Temperature Range: Low Temperature -55°C to 100°C
High Temperature -55°C to 200°C
- Integration Method: printable Sensor
- Thickness: < 25 μm
- Geometry: Point, Area or Line
- Temperature Accuracy: +/- 1 K

ABOUT ATT

ATT is a leading provider of surface heating systems utilizing thermoelectric heating polymers. With a focus on the Automotive industry, the company also offers solutions for Aerospace and Architecture applications. In addition to surface heating systems, ATT is continuously advancing their offerings with the development of advanced sensors including ultrathin real-time temperature sensors, hot-spot sensors for batteries, icing sensors for aircraft wings, and printable NTC sensors based on proprietary technologies.

BENEFITS

- Ultra-thin design: below 25 microns in thickness, making it easy to hide on thin surfaces like automotive armrests.
- Precise measurement: designed as a point, line, or area sensor for comprehensive temperature measurement.
- Cost-effective: eliminates the need for a pick and place machine and associated costs.
- Versatile: can be integrated into various applications, including flexible foils and printed heaters.
- Wide coverage: covers a large area, unlike traditional NTC sensors that only measure where they are positioned.
- Back-injection moldable: fully integrateable into plastic parts, providing even more possibilities for temperature sensing.

CUTTING EDGE TECHNOLOGY

- Our printable NTC sensor uses cutting-edge ink technology that we developed in-house and filed as a patent with pending status. This specially formulated ink allows us to create ultra-thin temperature sensors that can be printed using a screen printing process. Our ink technology is versatile, cost-effective, and enables us to offer a high degree of customization.

MARKET



Mobility



Healthcare



Traditional
Electronics



Furniture &
Building



IoT Antennas



Industry



Consumer
Goods

FURTHER READING:

<https://www.thermaltech.at/printable-ntc-temperature-sensor/>