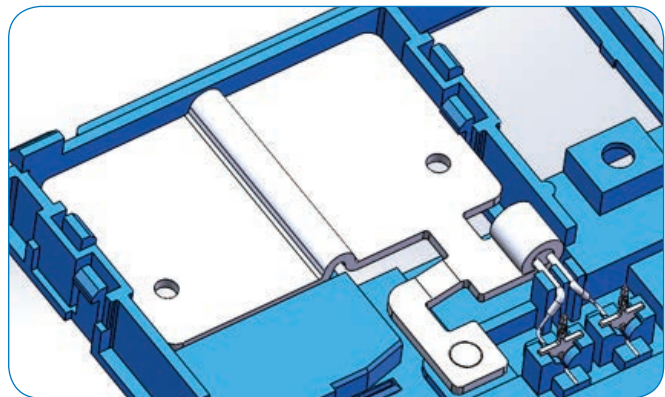
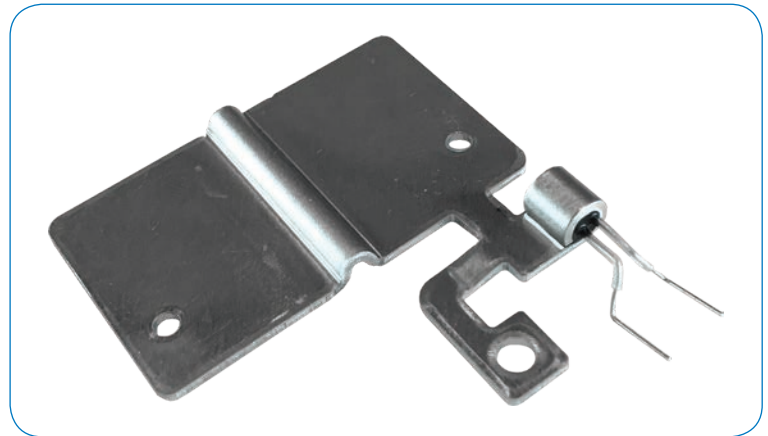


## Bus-Bar Integrated Temperature Sensor

The Bus-bar Integrated Temperature Sensor is used in Battery (BEV), Plug-in Hybrid (PHEV) and Hybrid (HEV) Electric Vehicles power battery packs to monitor the temperature of the battery cell. The Battery Management System (BMS) uses the sensor's output to monitor and control the battery's State of Function (SOF), which is critical to the battery pack's thermal management and State of Health (SOH).

### Features

- Operating Temperature Range:  $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$
- Resistance (R) @  $25^{\circ}\text{C}$ :  $10\text{K}\Omega \pm 1.46\%$  of R
- Beta (25/85):  $3977\text{K} \pm 1.0\%$
- Field proven bus-bar integrated design - No welding process, more reliable connection to the bus-bar
- Designed for compact space applications
- Designed for press-fit and laser welding electrical connection to BMS, for the voltage sensor
- Fast Response Time:  $T_{63} < 5.5$  seconds ( $25^{\circ}\text{C} \sim 85^{\circ}\text{C}$  in water)
- Compliance with RoHS, VW91101, GB/T30512
- Alternate RvT curves available upon request



### Applications

- BEV/PHEV/HEV – Power battery packs of passenger and commercial vehicles
- Energy storage battery packs

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