

Product Spotlight

EMI-Protected NTC Thermistors

Overview

With increasing complexity of electric systems and density of electronic components in modern vehicles, conventional NTC thermistor sensors are vulnerable to stray electromagnetic interference causing self-heating.

Amphenol Thermometrics UK Ltd has developed a noise-immune NTC thermistor with an integrated RF de-coupling function, providing EMI protection at the component level over a wide frequency range.

Features

- NTC element-level EMI protection
- Drop-in upgrade for existing applications
- Reduced system cost:
 - Retrofit to use existing housing designs
 - Eliminate shielded cables
- EMC-tested to GMW3097 / IS011452
- Range of conformal coatings available
- Fast time response

Applications

- EV/HEV/PHEV markets
- Battery temperature sensing
- Existing automotive upgrade
- Drive systems
- HVAC
- Air intake / coolant

Amphenol Advanced Sensors

Epoxy-coated noise-immune NTC





Numerous Automotive Applications

Amphenol

Advanced Sensors

The noise-immune NTC thermistor can be used in numerous applications. Below are some examples of automotive applications where it could be applied to prevent self-heating of the NTC thermistor due to EMI effects within an automobile.

EV/HEV/PHEV – Battery Temperature



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