



Transmission Oil Temperature Sensor

Overview

The Transmission Oil Temperature Sensor is used in automotive applications to monitor the temperature of transmission fluid and provide feedback to prevent overheating of the transmission, which can cause performance and reliability issues.

Features

- Operating Temperature Range: $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$
- Operating Pressure Range: 0 Bar \sim 20 Bar
- $R@25^{\circ}\text{C}$: $2009\Omega \pm 4\%$
- $R@100^{\circ}\text{C}$: $183\Omega \pm 2\%$
- Sealing Spec: Leakage rate $<0.5\%$ when exposed to 20 Bar oil pressure for 1 minute
- Fast Response: $T_{63} < 15\text{s}$ seconds ($25^{\circ}\text{C} \sim 85^{\circ}\text{C}$ in oil)
- Insulation Resistance: $>100\text{M}\Omega$ at 500VDC between copper shell and wire
- Chemical Compatibility: Automatic Transmission Fluid
- RoHS Compliant
- Alternate RvT curves available per request

Applications

- Automotive Transmission Oil Temperature Sensing
- Fluid Temperature Sensing

Ordering Options

Part Number	Resistance @25°C
CTTS-301823-F01	$2009\Omega \pm 4\%$

