

T H E R M O M E T R I C S  
A COMMITMENT TO EXCELLENCE

# Inline Flow-Through Coolant Temperature Sensor (CTS) for Automotive & Industrial Applications



The water temperature sensor monitors the temperature of the coolant that is being pumped around the engine block to cool the engine. This sensors purpose is to notify the driver of the vehicle if the engine starts to overheat. The goal is to relay an over temperature engine temperature to the driver so that the vehicle can be stopped and the engine switched off before any permanent damage to the engine is done.

## Applications

- Engine Coolant Temperature
- Battery Pack Coolant Line Temperature
- Process flow measurement
- HVAC water management
- Appliance

## Features

- High Sensitivity
- Fast Response Time
- Wide Application Range
- Compact Design
- SAE J-1231 Interface
- USCAR Sealed Connection System



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# CTS Specifications

**R @ 77°F (25°C)**

10 K $\Omega$   $\pm$  1.5%

**B (25/85)°C**

3957 – 3990

**Operating Temperature**

-40°F to 248°F (-40°C to 120°C)

**Storage Temperature**

-40°F to 302°F (-40°C to 150°C)

**Response Time**

~15 seconds in flowing water

**Housing Material**

Polyamide 6/6

**Weight**

~14 grams

**Mating Connector**

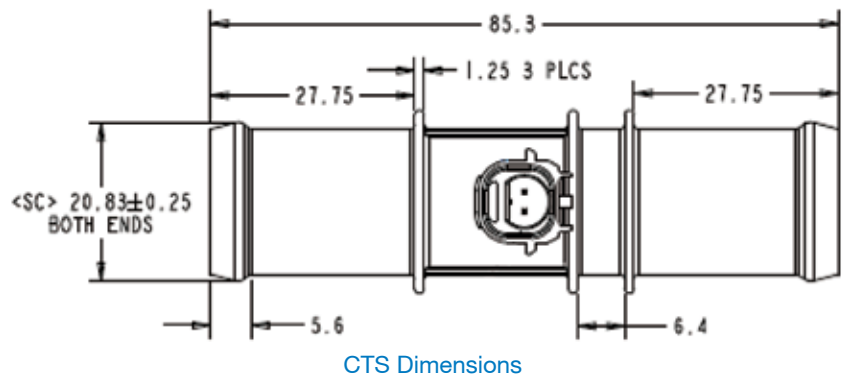
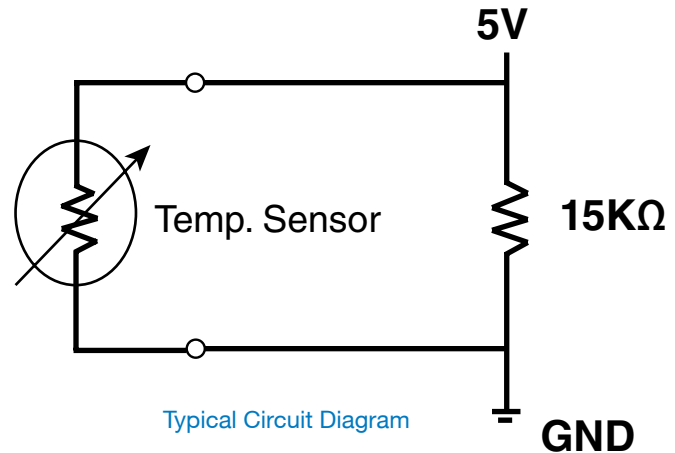
US Car 064-S-002-1 –Z02 Index Option "A"

**Mechanical**

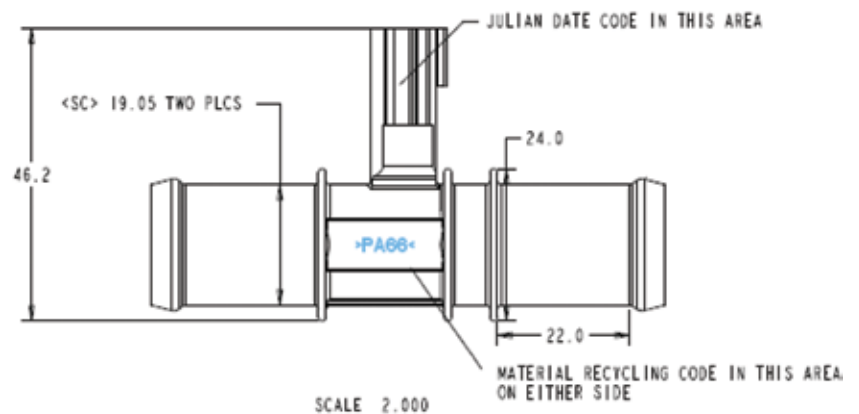
Tube Internal and External Dimensions & Tolerances to meet SAE J-1231 for -12 hose size

**Part Number**

GE-1935



RvT Table		
Temp (°C)	R <sub>nom</sub> (Ω)	Tol (±)
-40	332776	5.95%
-20	96481	4.24%
-10	55109	3.46%
0	32566	2.71%
10	19869	2.19%
20	12486	1.72%
25	10000	1.50%
40	5331	2.11%
50	3606	2.47%
60	2490	2.84%
70	1754	3.16%
85	1071	3.58%
100	678.1	5.56%
120	338.2	7.00%



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