



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



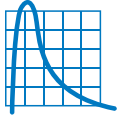
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T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# 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



**Amphenol**  
Advanced Sensors

# CTS Specifications

R @ 77°F (25°C)

10 KΩ ± 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

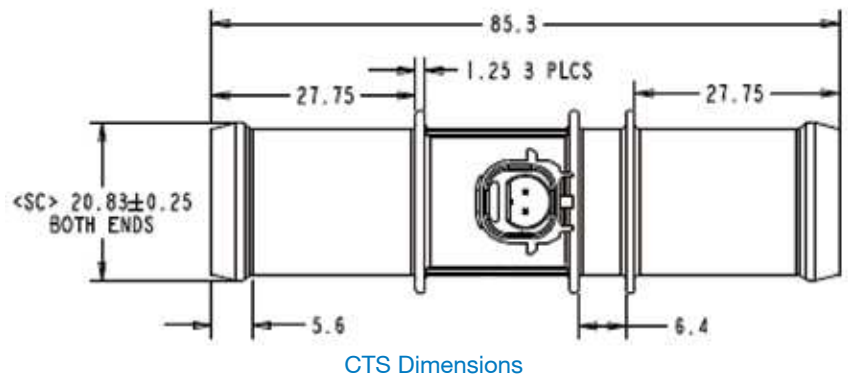
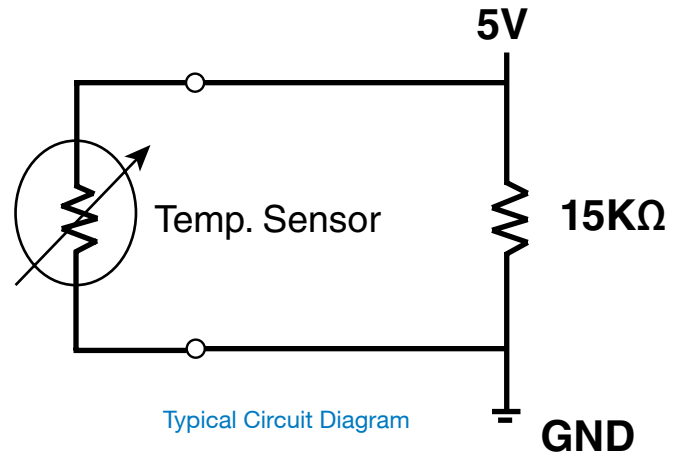
US Car 064-S-002-1 –Z02 Index Option "A"

Mechanical

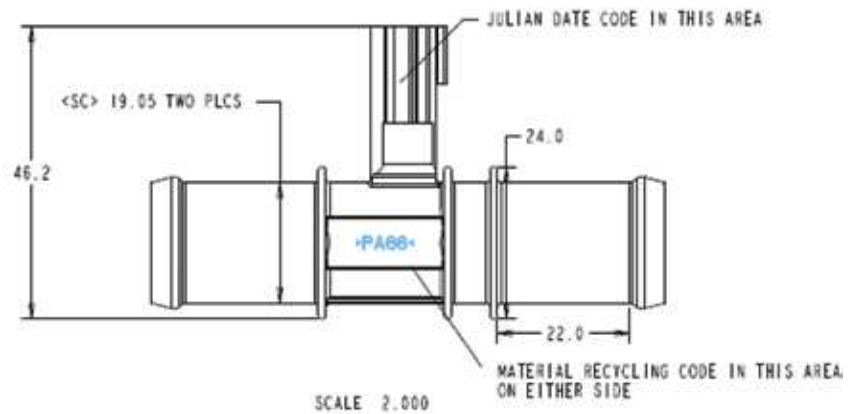
Tube Internal and External Dimensions & Tolerances to meet SAE J-1231 for -12 hose size

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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