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### 590-39CG02-103



500 Series surface temperature probe

Actual product appearance may vary.

#### Features

Wide selection of housing options  
Choice of custom or existing designs  
Operating temperature range design available from -60 °C to 300 °C [-76 °F to 572 °F]

#### Potential Applications

Automotive  
White goods  
Communications  
Medical  
Fire detection  
Computers  
Instrumentation test equipment  
Microwave oven probes  
Bulk freight refrigeration  
Digital thermometers  
Drinking and vending machines  
Military  
Aerospace

#### Description

The 500 Series Probes represents a full range of thermistor and RTD based temperature sensors. These assemblies have been designed for use in specific applications. Housings may accommodate air/gas, immersion or surface sensing requirements. Housing material ranges from all plastic to all metal. In addition to custom configurations, the customer may also choose from a variety of existing designs.

#### Supporting Documentation

None Available

Product Specifications	
Thermistor Type	NTC
Temperature Sensing Type	Surface
Nominal Resistance at 25 °C [77 °F]	10,000 Ohm
Tolerance	± 0.05 °C [0.09 °F]
Accuracy	15 °C to 25 °C [59 °F to 77 °F]
R - T Curve	16
Operating Temperature Range	-40 °C to 80 °C [ -40 °F to 194 °F]
Housing Material	Steel magnet
Mechanical Interface	Magnetic
Electrical Interface	Overmolded connector
Lead Length	3,810 mm [150 in]
Connector Type	Standard 1/4 stereo phone plug
Time Constant on Metal Surface	25.0 s
Dissipation Constant on Metal Surface	30 mW/°C
Availability	Global
Series Name	500

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All Sensing and Control

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