



SCCP30GSMT



Actual product appearance may vary.

Pressure Sensors: Measurement Type:
Gage; 0 psia to 30 psia Operating
Pressure, "SMT" package - Straight
Port

Features

- Low Cost
- Small Size
- Internal Temperature Compensation
- Absolute or Gauge Pressures
- High-Impedance Bridge
- Low Power Consumption

Potential Applications

- Pneumatic Controls
- Automotive Diagnostics
- Medical Equipment/Instrumentation
- Dental Equipment
- Environmental Controls
- Barometric Pressure Measurement
- Altimeters
- Pneumatic Controls
- Battery Powered Equipment

Description

The SCC series sensors offer an extremely low cost sensor element with a temperature stable output when driven with a constant current source. These integrated circuit sensors were designed for extremely cost sensitive applications where precise accuracy over a wide temperature range is not required.

The SCC series SMT offers a standard surface mount package and is offered with an optional ported lid to fit in a variety of application. This series of sensors are designed for measuring absolute and gage pressure ranges from 0 psi to 5 psi through 0 psi to 300 psi. The absolute devices have an internal vacuum reference and an output voltage proportional to absolute pressure. Differential devices allow application of pressure to either side of the sensing diaphragm and can be used for gauge or differential measurements.

The SCC series SMT sensors offer a 4-pin closed bridge configuration for electrical connection with additional pads provided for mechanical support. Pulsed power is recommended to achieve maximum accuracy and conserve battery power in portable applications.

Product Specifications	
Measurement Type	Gage
Signal Conditioning	Unamplified
Pressure Range	0 psia to 30 psia
Maximum Overpressure	60 psi
Supply Current	1.5 mA max.
Compensated	Yes
Output Calibration	No
Response Time	0.1 ms typ.

Termination	PCB
Port Style	Straight
Package Style	Standard SMT
Typical Sensitivity	2.9 mV/mA/psi \pm .57 mV/mA/psi
Null Offset	-10 mV typ.
Null Shift over Temperature	0.5 % FSS typ.
Span Shift Over Temperature	0.25% FSS typ.
Zero Pressure Offset	-30.0 mV min., -10.0 mV typ., 20.0 mV max.
Linearity, Repeatability & Hysteresis Error	- 0.1 min., 0.2 typ., 1.0 max. % Full Scale Span
Input Resistance	4.0 kOhm min., 5.0 kOhm typ., 6.5 kOhm max.
Output Resistance	4.0 kOhm min., 5.0 kOhm typ., 6.5 kOhm max.
Operating Temperature Range	-40 °C to 125 °C [-40 °F to 257 °F]
Compensated Temperature Range	0 °C to 50 °C [32 °F to 122 °F]
Storage Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Media Compatibility	Clean, dry gases only.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Comment	Lead Temperature Soldering 2 s to 4 s at 250 °C [482 °F]
Availability	Global
Series Name	SCC