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1800-03D-L4L-B

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1800/1805 Series, 0 psi to 15 psi pressure range, differential, 1.5 mA typ., 2.0mA max. supply current, TO -8 can

Features

Standard pressure ranges from 0 psi to 3 psi and 0 psi to 150 psi
 Gage, absolute or differential models
 Voltage or constant current excitation
 Choice of temperature compensation options
 Uncompensated version available for microprocessor-based designs

Potential Applications

Instrumentation calibration
 Avionics/Aerospace
 Medical equipment
 HVAC
 Pneumatic controls

Description

The 1800/1805 Series sensors are high performance TO8 pressure transducers specifically designed to address both low and medium pressure OEM applications. The transducers offer two performance grades and a variety of compensation options, including span and calibration within ± 2 mV (normalized output). This series contains a solid state piezoresistive pressure sensor mounted in a standard TO-8 package. They are printed circuit board and pin-for-pin compatible with other TO8 pressure sensors.

Supporting Documentation

None Available

Product Specifications

Measurement Type	Differential
Pressure Range	0 psi to 15 psi
Supply Current	1.5 mA typ., 2.0mA max.
Compensated	Yes
Top Side Overpressure	65 psi
Response Time	1ms
Bottom Side Overpressure	45 psi
Package Style	TO -8 Can
Full Scale Span	75 to 150 mV
Insulation Resistance	100 mOhm at 50 Vdc
Repeatability	± 0.0125 max. %FFS
Output Resistance	3.5 kOhm min., 6.0 kOhm max.
Common Mode Voltage	50% input
Shock	100 g for 11 ms
Vibration	10 g rms at 20 Hz to 200 Hz
Pressure Connections	3/16 in tube (top); 1/8 in tube (bottom)
Operating Temperature Range	-40 °C to 121 °C [-40 °F to 257 °F]
Compensated Temperature Range	-1 °C to 54 °C [34 °F to 129 °F]
Media Compatibility	Clean, dry gases only.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Life	100 million cycles
Availability	Global
Series Name	1800/1805

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