

Model 1451

[查询"1451-005A-N"供应商](#)

PC Board Mountable Pressure Sensor

0-60 mV Output

Gage and Absolute Pressure

Low Cost

- ▶ Altitude Measurement
- ▶ Barometric Pressure
- ▶ Medical Instrumentation
- ▶ Consumer Appliances
- ▶ Tire Pressure



FEATURES

- ▶ Surface Mount Package
- ▶ $\pm 0.25\%$ Pressure Non-linearity
- ▶ 3 Pressure Port Options
- ▶ Solid State Reliability
- ▶ Low Power

STANDARD RANGES

Range	psia	psig
0 to 5	●	●
0 to 15	●	●
0 to 30	●	●
0 to 50	●	●
0 to 100	●	●
0 to 250	●	
0 to 500	●	

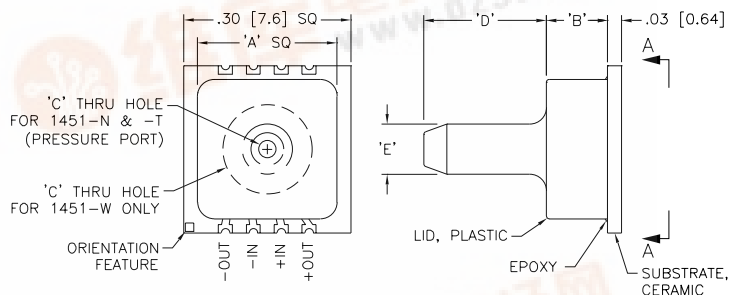
DESCRIPTION

The Model 1451 is a piezoresistive silicon pressure sensor packaged in a surface mount configuration. It is intended for high volume applications where small size, light weight, low cost, and compatibility with automated assembly equipment are required.

The pressure sensor is available with a gage or absolute pressure sensing chip that is attached to a surface mountable ceramic substrate. A cap is attached to the ceramic substrate, protecting the chip and providing the pressure port.

The devices are shipped in plastic anti-static shipping tubes for use with automated production equipment. The drawing shows a standard tube version. Caps are also available with a Narrow hole or a large hole to interface with the pressure media.

DIMENSIONS



MODEL 1451 LID TABULATION			
	1451-N (NARROW HOLE)	1451-W (WIDE HOLE)	1451-T (TUBE)
'A'	.25 [6.4]	.25 [6.4]	.25 [6.4]
'B'	.110 [2.79]	.110 [2.79]	.110 [2.79]
'C'	ø.031 [0.78]	ø.160 [4.06]	ø.031 [0.78]
'D'	—	—	.220 [5.59]
'E'	—	—	ø.090 [2.29]

ALL DIMENSIONS ARE IN INCHES [mm]

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Ambient Temperature: 25°C (Unless otherwise specified)

Notes	
1. Best Fit Straight Line.	4. 10 Hz to 1 kHz.
2. Over the temperature range 0-50°C with respect to 25°C.	5. For sensors above 100 psi applications, the entire sensor is required to be inside the pressure chamber.
3. For a zero-to-full scale pressure step change.	6. Gel fill is only offered with the wide hole option.

1451 - 015 A - T P

- Coating (P = Parylene, F = Gel Fill, Blank = No Coating)
- Port (T = Tube, N = Narrow Hole, W = Wide Hole)
- Type (A = Absolute, G = Gage)
- Pressure Range
- Model

Bottom View (View A-A)

