NOVA SENSOR

P1602

Pressure Sensor Die

Description

The P1602 piezoresistive pressure sensors are offered in a miniature 0.04 in x 0.04 in (1 mm x 1 mm) die. When excited with 1 mA constant current , the P1602 produces a millivolt output that is proportional to input pressure. The P1602 is available as an absolute pressure sensor, where the applied pressure is referenced to an internal vacuum sealed within the die. With NovaSensor's Senstable® process, the P1602 will provide very low long-term stability errors and excellent repeatability.

Applications

- Consumer: Portable tire gauges, altimeters, and barometers
- Industrial: Pneumatic controls, leak detection, manometers, portable pressure gauges, pressure switches, and controllers
- Automotive: Tire pressure, diagnostics, engine, and suspension control, MAP sensors
- Medical: Patient monitoring and clinical instrumentation

Features

- Solid state, high reliability
- Low-cost , miniature size
- Standard pressure ranges: 0 to 15, 0 to 30, 0 to 50,
- 0 to 100 psia (1, 2.1, 3.4 and 6.9 bar)
- Nonlinearity < 0.2 %FSO
- SenStable , silicon fusion bonded sensor die

Amphenol

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