



# P111

## Medium Silicon Pressure Sensor Die

### Description

NovaSensor's P111 piezoresistive pressure sensors are offered in a miniature 0.10 in x 0.12 in (2.7 mm x 3.2 mm) die. When excited with 1.0 mA, the P111 produces a millivolt output that is proportional to input pressure. The P111 is available as an absolute pressure sensor where the media pressure is referenced to an internal vacuum sealed in the die. The P111 is also available as a differential and gage sensor. With NovaSensor's SenStable® process, the P111 will provide very good long-term stability and excellent repeatability. Sensor die have a 63 mil glass constraint layer. For thicker isolation constraint contact the factory.

### Applications

- Process control systems
- Pneumatic controls
- Biomedical instruments
- Hydraulic systems

### Features

- Highly reliable, solid state silicon pressure sensors
- Available in absolute and differential versions
- Standard pressure ranges: 0 to 100, 0 to 200, and 0 to 700 kPa
- Nonlinearity < 0.25 %FSO
- 2X overpressure limit

