

TO-8 packaged pressure sensor



Features

- Piezoresistive MEMS element
- Analog voltage output
- Gas and non-corrosive fluids
- Low cost OEM
- Range: 5 to 250 psi
- Temperature compensated
- Various package
- Small size
- Energy efficient
- Excellent long-term stability
- Industry-leading Total Error Band
- RoHS compliant

Application

- Pneumatic controls
- Automotive diagnostics
- Medical instrumentation
- Air Speed and Altitude
- Environmental controls
- Barometric pressure
- Factory Automation
- Process Controls

Performance

Pressure range(FS)	5~250 psi
Accuracy(BFSL).....	±0.1% FS
Pressure hysteresis	±0.1% FS
Stability(typical)	±0.1% FS/year
Output noise(peak-peak)	1uV
Load resistance	>5MΩ
Response frequency(typical)	1KHz

Electrical

Excitation	0.5~2mA
Input resistance typical	4.5KΩ
Warm up	<7ms
FSO(@1.5mA, 25°C typical)	100mV
ESD susceptibility	4KV

Environmental

Operation temperature	-40 to 125°C
Compensated temperature	0 to 60°C
Solder temperature.....	5s Max. at 300°C
Temperature zero shift	±0.5% FSO
Temperature sensitivity shift	±0.5% FS
Thermal hysteresis	±0.05% FS
Gravity(1g) sensitivity	±0.15% FSO
Pressure cycles	10 million FS cycles
Overload.....	>3 * FS
Vibration	<20 g@10~2000Hz
Shock	<100 g, 11ms pulse
Media	CDA, Non Ionic, Non Corrosive Gases
Cover	SST
Substrate	Ceramic
Sealing	Silicone epoxy
Pressure port	Tube/Hole
Electrical connection.....	TO-8

Ordering Information

P2104-15G-TS

Range in psi:
5/15/30/50/100/250

Special port out:
S= Barbed ports

Reference type:
G= Gauge pressure
D= Differential
A= Absolute

Port type:
T= Top tube only
B= Back tube only
D= Double side tube
N= No tube(Hole)

Schematic & Dimension:

