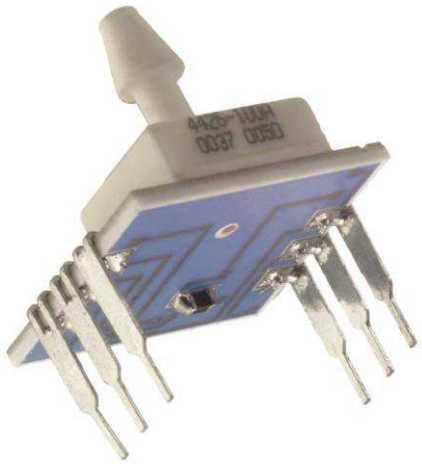


RoHS

MS4426

SPECIFICATIONS

- **PC Board Mountable Pressure Sensor**
- **0-100 mV Output**
- **Voltage Excitation**
- **Gage and Absolute**
- **Temperature Compensated**

The MS4426 is a temperature compensated, piezoresistive silicon pressure sensor packaged in a dual-in- line configuration and intended for cost sensitive applications where excellent performance and long-term stability are required.

Integral temperature compensation is provided over a range of 0-50°C using laser-trimmed resistors. The pressure sensor is available in absolute or gage pressure ranges from 0-1 to 0-300 psi. The pressure ports are 1/8” barbed ports which mate with 3/32” ID tubing. The tube is vertically mounted to the printed circuit board. For a horizontally mounted tube in differential, gage and absolute pressure, refer to the MS4425.

FEATURES

- Dual-in-Line Package
- 0ºC to 50ºC Compensated
- Temperature Range
- ±0.15% Pressure Non Linearity
- Solid State Reliability

APPLICATIONS

- Medical Instruments
- Altitude Measurement
- Process Control
- Factory Automation
- Leak Detection

STANDARD RANGES

Range	psig	psia
0 to 1	•	
0 to 5	•	
0 to 15	•	•
0 to 30	•	•
0 to 50	•	•
0 to 100	•	•
0 to 150	•	•
0 to 300	•	•

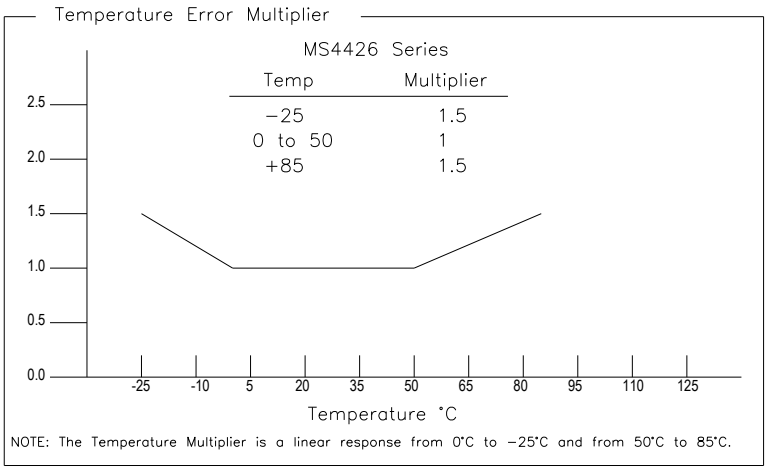
PERFORMANCE SPECIFICATIONS

Supply Voltage: 12V
Ambient Temperature: 25°C (unless otherwise specified)
Pressure applied to Port 2

PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Span (0-1 psi)	17.6	18	18.4	mV	1
Span (0-5 psi)	58	60	62	mV	1
Span (0-15 to 0-50 psi)	88	90	92	mV	1
Span (0-100 & 0-300 psi)	98	100	102	mV	1
Span (0-150 psi)	148	150	152	mV	1
Zero Pressure Output	-1	±0.2	1	mV	1
Pressure Non Linearity	-0.15		0.15	% Span	2
Pressure Hysteresis	-0.20	±0.05	0.20	% Span	
Input Resistance	5	15	25	KΩ	
Output Resistance	3500	5000	6500	Ω	
Temperature Error – Span	-1	0.3	1	% Span	3
Temperature Error – Zero	-0.75	±0.2	0.75	mV	3
Supply Voltage		12	20	V	
Long Term Stability (Offset & Span)		±0.1		mV	4
Pressure Overload			3X	Rated	5
Compensated Temperature	0		50	ºC	
Operating Temperature	-25		85	ºC	
Storage Temperature	-40		125	ºC	
Humidity	0		85	% RH	
Weight			3	grams	
Solder Temperature	260ºC Max 5 Sec.				6
Media	Non-Corrosive Dry Gases Compatible with Silicon, Pyrex, RTV, Ceramic & Gold				

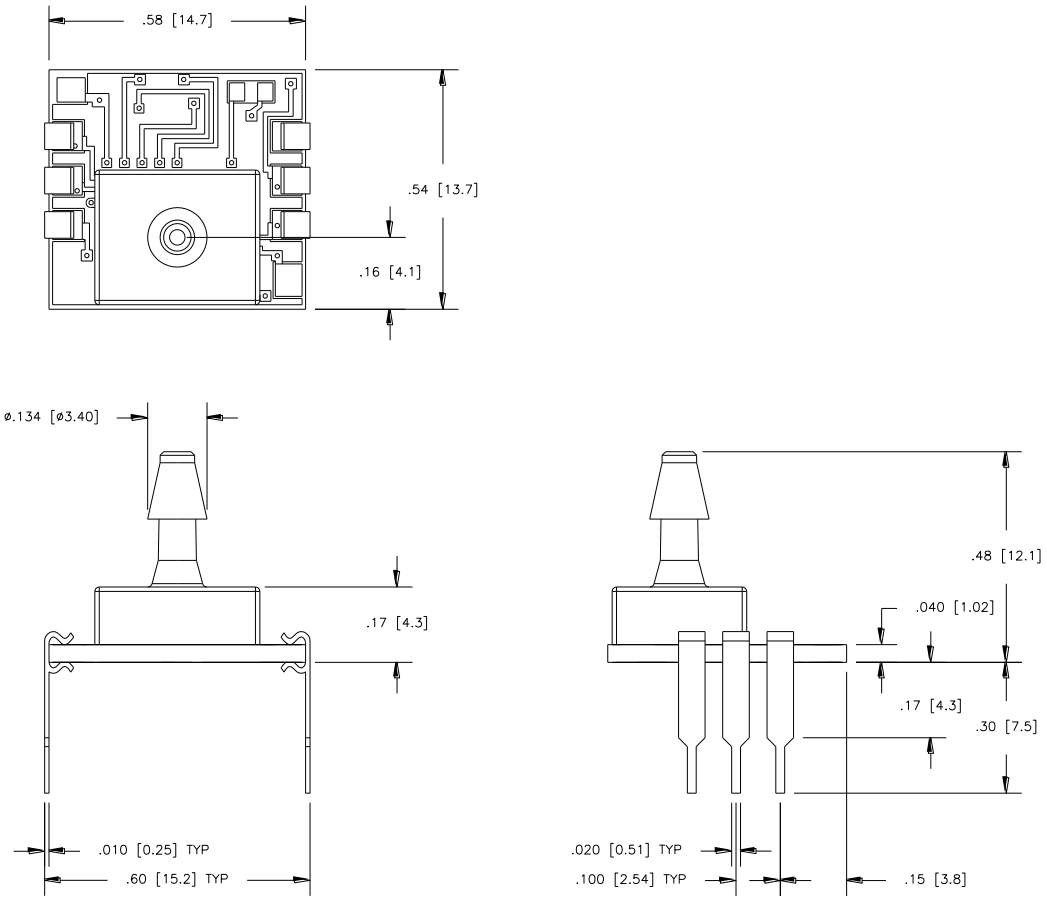
Notes

1. Ratiometric to supply voltage.
2. Best fit straight line. Non linearity for 5psi and 150psi devices is 0.25%
3. Maximum temperature error between 0°C and 50°C with respect to 25°C. For errors beyond the compensated temperature, see Temperature Error Multiplier Chart below.
4. Long term stability over a one year period with constant voltage and temperature.
5. 3X or 400 psi max, whichever is less.
6. For more details refer to 4425/4426 Mounting Application Note.



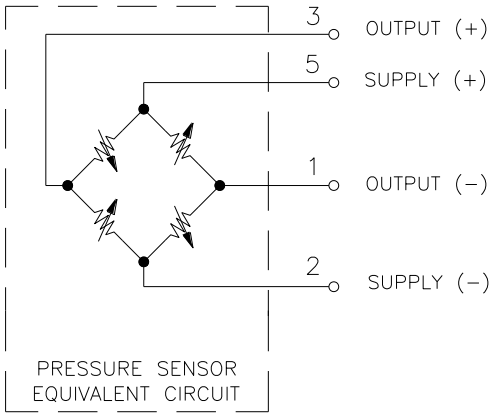
DIMENSION

DIMENSIONS ARE IN INCHES [mm]



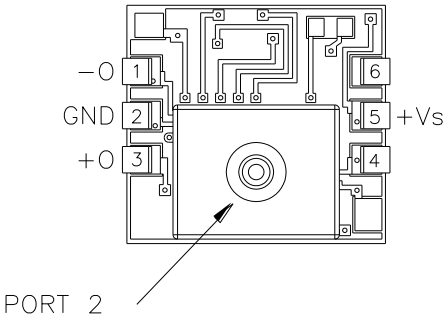
MS4426−XXXG/A

CONNECTIONS



MS4426−XXXG/A

PACKAGE STYLE, PINOUT, AND PORT DESIGNATION



MS4426−xxxA/Gy

ORDERING INFORMATION

4426	—	015	A	F
Model Name				

Pressure Range

001	005	015
030	050	100
150	300	

Pressure Type

A=Absolute **G**=Gage

Coating

F=Gel Fill 'Blank'=No Fill

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