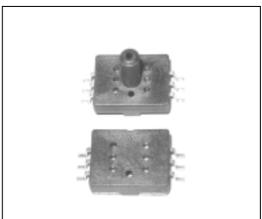
Description

The DMP series is a silicon micro-machined piezoresistive pressure sensor that given high sensitivity output and highest accuracy. DMP series is designed for low cost high performance consumer electronic applications.

Features

- High Sensitivity Output 140mV @ EX+ 5.00V
- Constant Current Or Constant Voltage Drive
- Very Low Cost For High Volume Application
- Small Size SMD package
- Excellent Linearity
- Offset Trimming Possible
- Silicon Solid State Reliability

DMP Series Package



Applications

- Barometer, Weather Station, Altitude Meter
- Pressure Control
- Vacuum Measure
- Pneumatic Gages
- Hand-held Meter
- Home Appliances

Descriptions

This pressure sensor is intended for very high volume application such as consumer electronic devices.

DMP015A-1 is designed for barometer, weather station where the sensitivity, stability and cost are critical factors.

P/N Format

DMP - 015 A - 1 - T

DMP Series

015 Pressure range PSI

A, G A = Absolute

G = Gauge

1 High sensitivity version

T Tube

Custom pressure range and specification available in high volume request.

1 / 2 Rev 0

Characteristics

All parameters are measured at 5.000V DC supply at room temperature, unless otherwise specified

Parameters	Unit	Min.	Тур.	Max.	Notes
Pressure Range	PSIA		15		
Excitation Voltage	V	0.0	5.0	10.0	1
Excitation Current	mA	0.0	1.00	1.25	1
SPAN (FS Range)	mV	110.0	140.0	170.0	
DC Output	mV	75.0	140.0	210.0	
Offset	mV	-35.0	-0.0	+35.0	
TC SPAN	PPM / °C	-2500	-2100	-1700	2
TC Offset	PPM / °C	-800	0	+800	2
TC Resistance	PPM / °C		+600		2
Linearity	%FS	-0.3	-0.1	+0.3	3
Bridge Resistance	ΚΩ	4.0	5.0	6.0	
Hystersis	%FS		±0.2		
Proof Pressure	Rated FS	3X			
Burst Pressure	Rated FS	5X			
Operating Temperature	°C	-40		+125	
Storage Temperature	°C	-40		+125	

Notes

- 1. Sensor may be driven with positive or negative excitation, positive output for positive pressure applied to circuit side of die when sensor is driven with positive voltage.
- 2. TCS, TCO, TCR are measured from 0°C to +50°C, not full test in production, but guaranteed by design.
- 3. Defined as best fit straight line (BFSL).

Media compatibility

Clean, dry air and non-corrosive gases.

2 / 2 Rev 0

