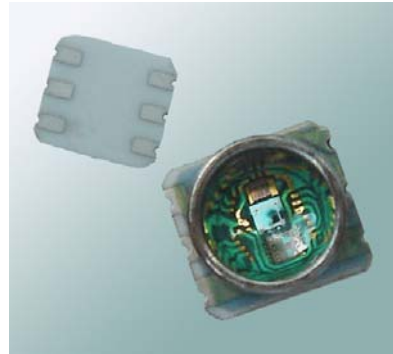
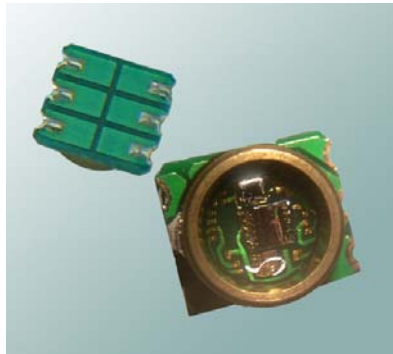


### SMD PRESSURE SENSOR



#### Description

The HSG Series of pressure sensors are silicon micromachined, piezoresistive sensor is suitable for printed circuit mounting. They were designed for extremely cost sensitive applications where the sensing element is to be integral to the OEM equipment, and are intended for use with non-corrosive, non-ionic media. These devices are available in full-scale ranges from 5 to 300 psi. They also may be packaged with application specific sensor die so that the performance characteristics and output range also can be identified. For further information on this series, please contact factory

#### Features

- High performance-price ratio
- Silicon/Grass Bonding wafer, high stability
- Very good Consistency, high reliability
- Miniature size
- Low consumption
- Easily embedded in OEM Equipment

#### Application

- For high resolution absolute sensor systems
- Engine control
- Tyre pressure test
- Barometers, Altimeters
- Variometers
- Sphygmomanometer

#### Full Scale Pressure

kPa	bar	mbar	PSI	atm	mmHg	mmH <sub>2</sub> O	kg/cm <sup>2</sup>
100	1	1000	15	1	750	10207	1
700	7	7000	100	7	5250	71451	7
1700	17	17000	250	17	12754	173524	17

### Electronic Characteristics

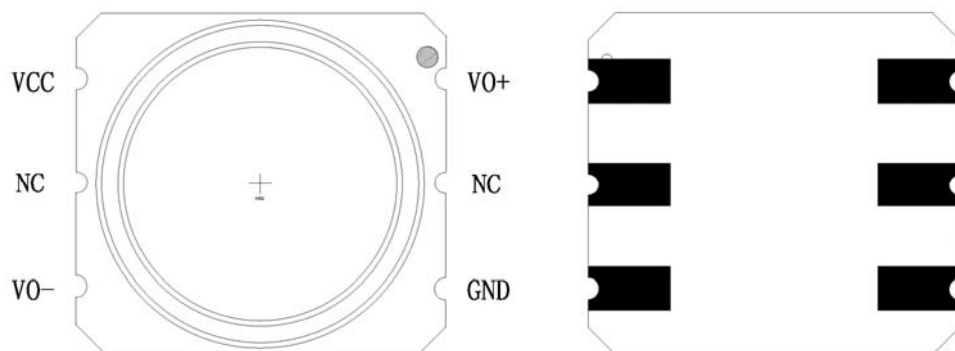
Test Environment: Supply Voltage 5VDC, Ambient Temperature 25°C

Items	Min	Type	Max	Units	
Excitation Voltage	0	5.0	10.0	Volts	
Excitation Current	0	1.5	3.0	mA	
Full Scale Span	6 psi	70	100	130	mV
	15 psi	70	100	130	mV
	100 psi	60	90	120	mV
	150 psi	70	100	130	mV
	300 psi	90	120	150	mV
Zero Offset	-30	0	30	mV	
Temp. Coefficient of Zero Offset	-0.2	0	+0.2	%FS/100°C	
Temp. Coefficient of Span	-0.2	0	+0.2	%FS/100°C	
Linearity	-0.3		+0.3	%F.S	
Bridge Impedance	2.5	3.0	3.5	KΩ	
Pressure Overload			2×	Full Scale Span	
Operating Temp.	-40		125	°C	
Storage Temp.	-40		125	°C	

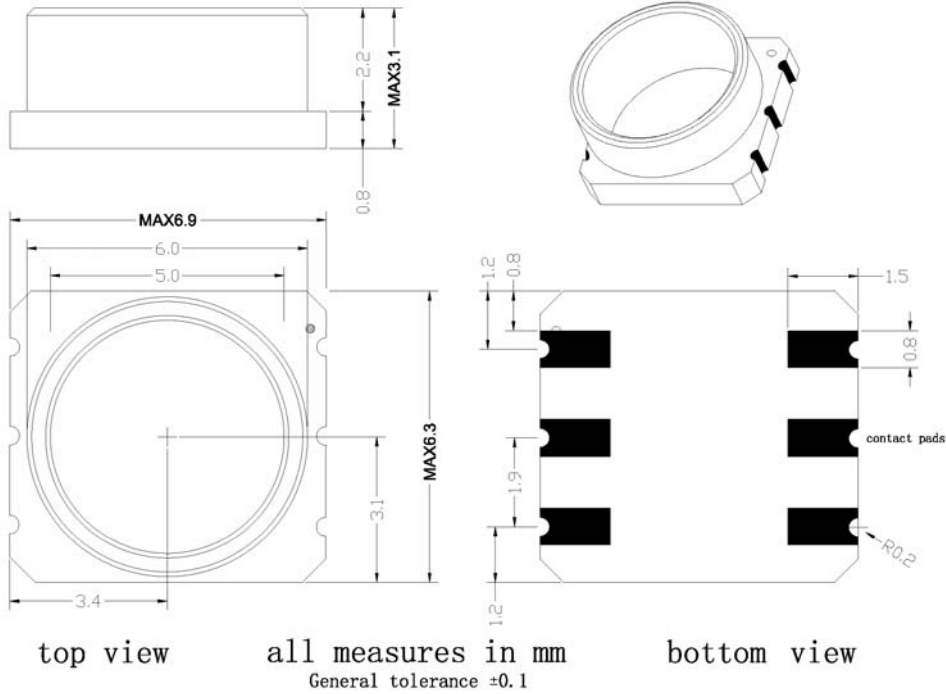
#### Notes:

1. Hope mainly produce the sensor pressure range: 15psi, 100psi, 300psi.
2. Maximum difference in offset after one thermal cycle from -40°C to +125°C.
3. Hope also provide the other pressure range sensor, please contact with Hope Microelectronics

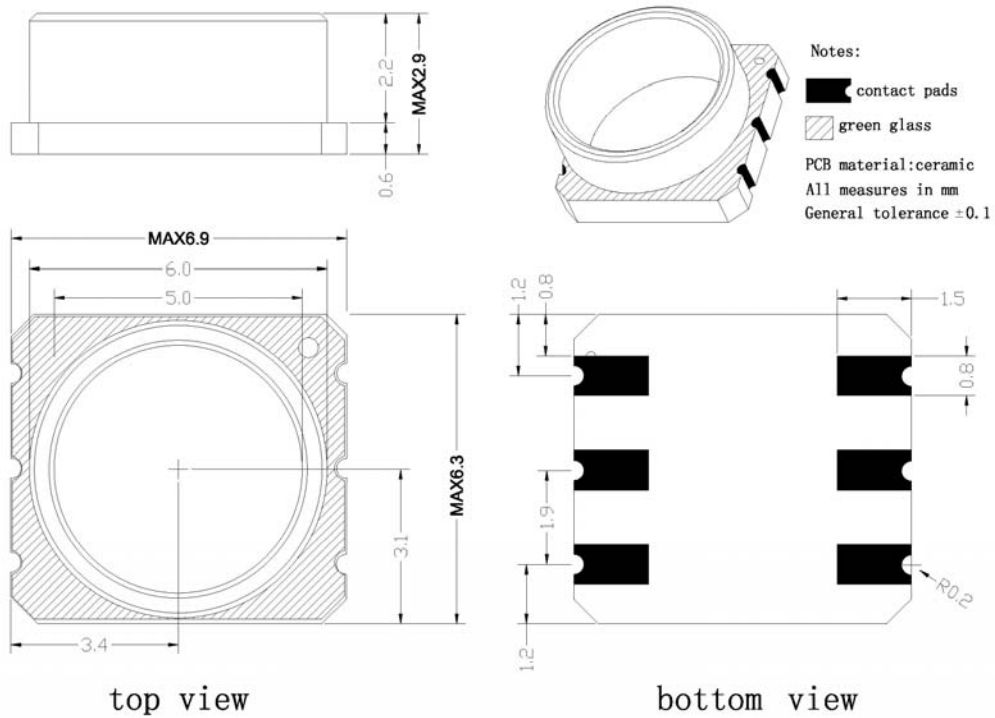
### Pin Configuration



### FR4 PACKAGE OUTLINES



### CEREMIC PACKAGE OUTLINES



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