

## Absolute Pressure Sensor (0-1 BAR)



- 0 to 100kPa pressure range (1 bar or 15 PSI)
- Absolute pressure sensor
- Silicon/Grass Bonding wafer, high stability
- Miniature surface mount
- RoHS-compatible & Pb-free
- Provide the other gage pressure range sensor

### DESCRIPTION

The Series of pressure sensor is a silicon micro-machined membrane, piezo-resistive sensor. 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. They also may be packaged with application specific sensor die so that the performance characteristics and output range also can be identified.

### FEATURES

- Uncompensated pressure sensor
- Temperature Range -40°C ~ +125°C
- Low Cost, High reliability

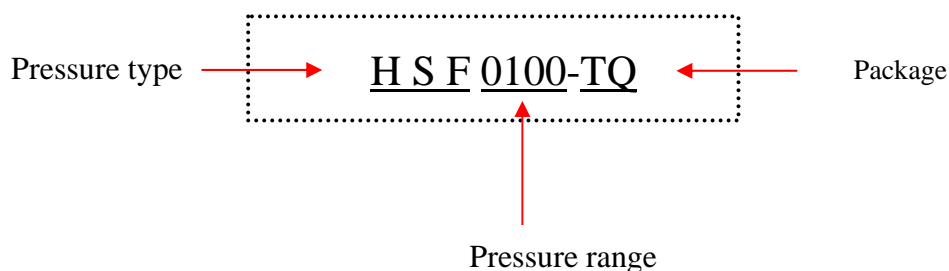
### APPLICATION

- For high resolution absolute sensor systems
- Engine Controls
- Barometers, Altimeters, Variometers

### 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

### Part number System



## Characteristics

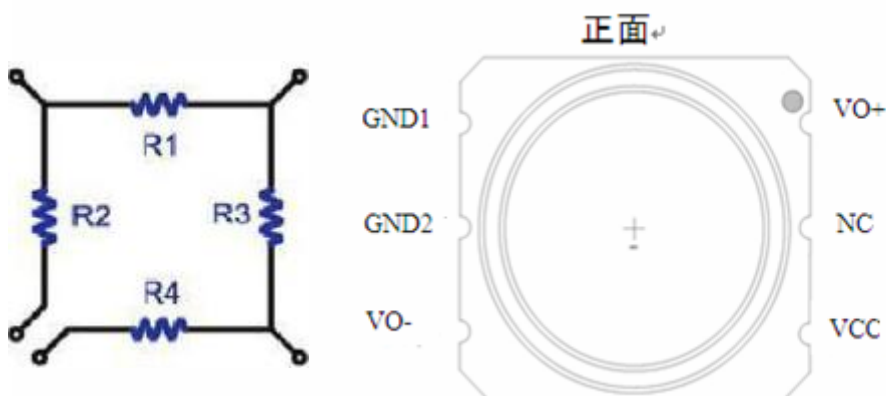
Working conditions:

DC @5v, Pressure 100KP, temperature 25°C, humidity at 30% -90%

Item	Min	Typical	Max.	Unit
Pressure Range		15PSI		
Supply voltage	0	5.0	10.0	Volts
currency	0	1.5	3.0	mA
Span	60	100	150	mV
Offset	-30	0	30	mV
Temperature coefficient	-16	-22	-28	%FS/100°C
Temperature coefficient of Zero	-4	-6	-8	%FS/100°C
Nonlinearity	0	0.1	0.5	%FS
Bridge resistance	4	5	6	KΩ
Proof pressure			2×	Rated FS
Operating temperature	-40		125	°C
Storage temperature	-40		125	°C

## WAFER ELECTRICAL CONNECTIONS

1. Best fit straight line.
2. Coefficients are typical values between -10°C and 40°C.

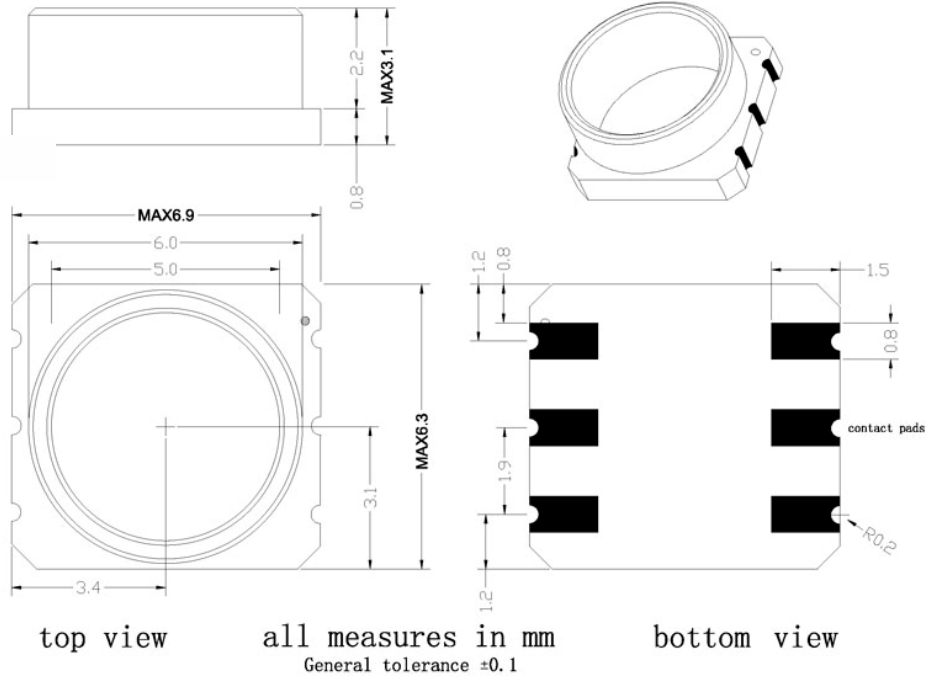


## Pin Configuration

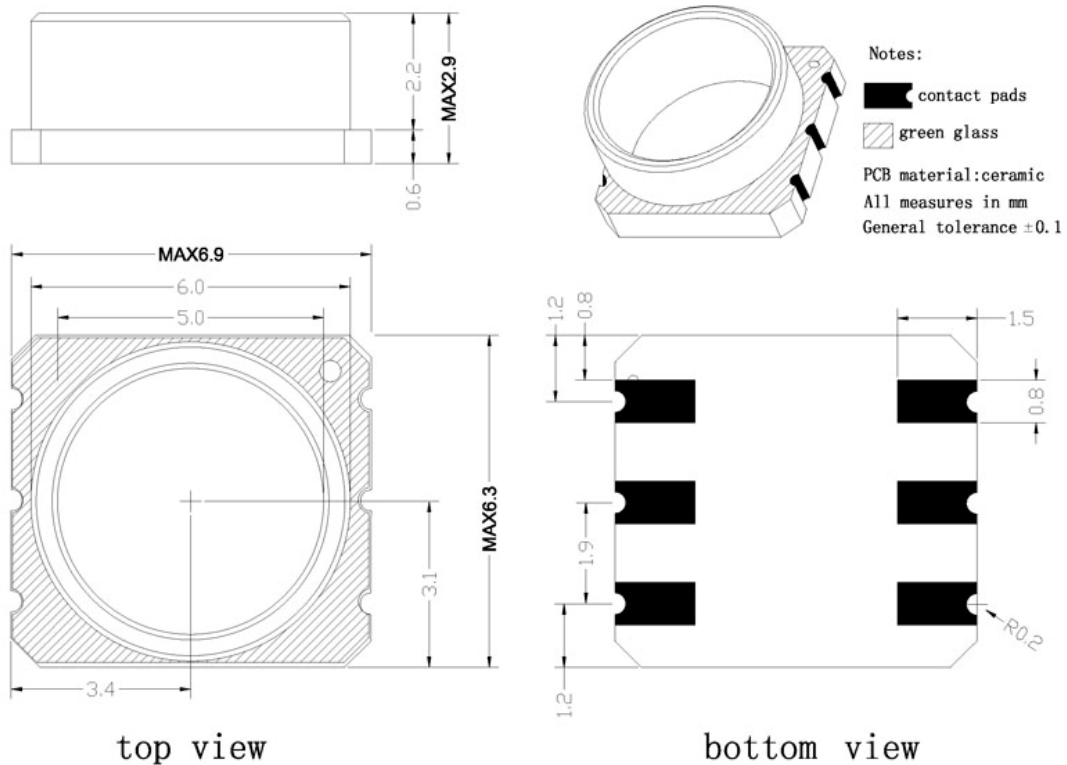
PAD	1	2	3	4	5	6
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Definition	Vo+	GND1	GND2	VO-	VCC	NC
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## FR4 Package Outlines



## Ceramic Package Outlines



## ORDERING INFORMATION

### HOPE MICROELECTRONICS CO.,LTD

4/F, Block B3, East Industrial Area,  
Huaqiaocheng, Shenzhen, Guangdong,  
China

Tel: 86-755-82973805

Fax: 86-755-82973550

Email: [sales@hoperf.com](mailto:sales@hoperf.com)

Website: <http://www.hoperf.com>

<http://www.hoperf.cn>

<http://hoperf.en.alibaba.com>

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