

## Absolute Pressure Sensor (0-10 BAR)



- 0 to 1000kPa pressure range (10bar or 150PSI)
- 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

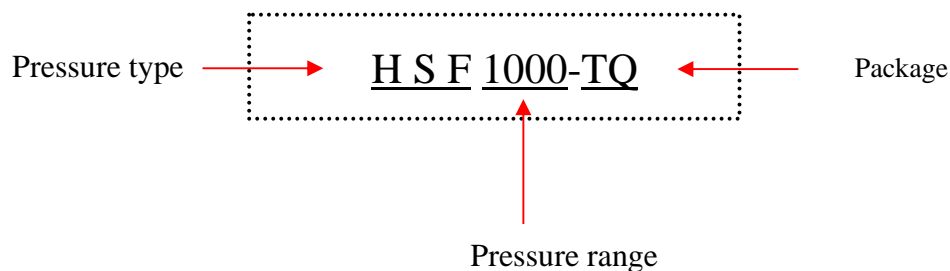
### APPLICATION

- 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

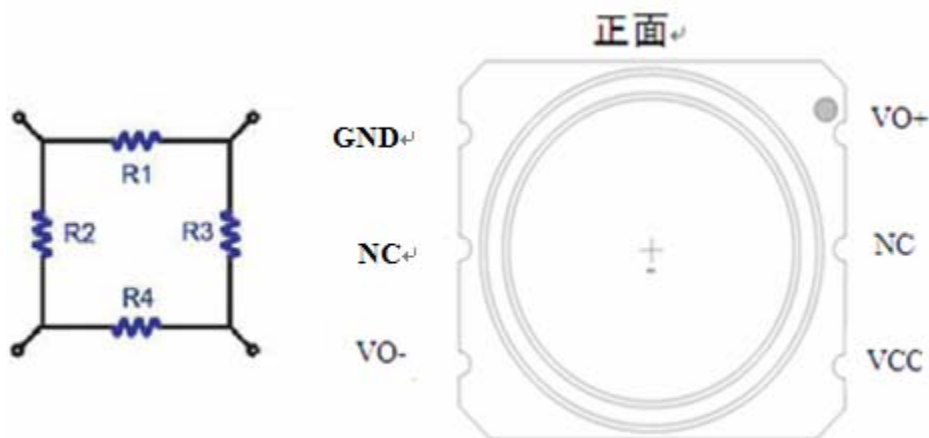
Working conditions:

DC@5v, Pressure 1000KP, temperature 25 °C , humidity at 30%

Item	Min	Typical	Max.	Unit
Pressure Range		150PSI		
Supply voltage	0	5.0	10.0	Volts
current	0	1.5	3.0	mA
Span	60	100	140	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	4.0	5	6.0	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.

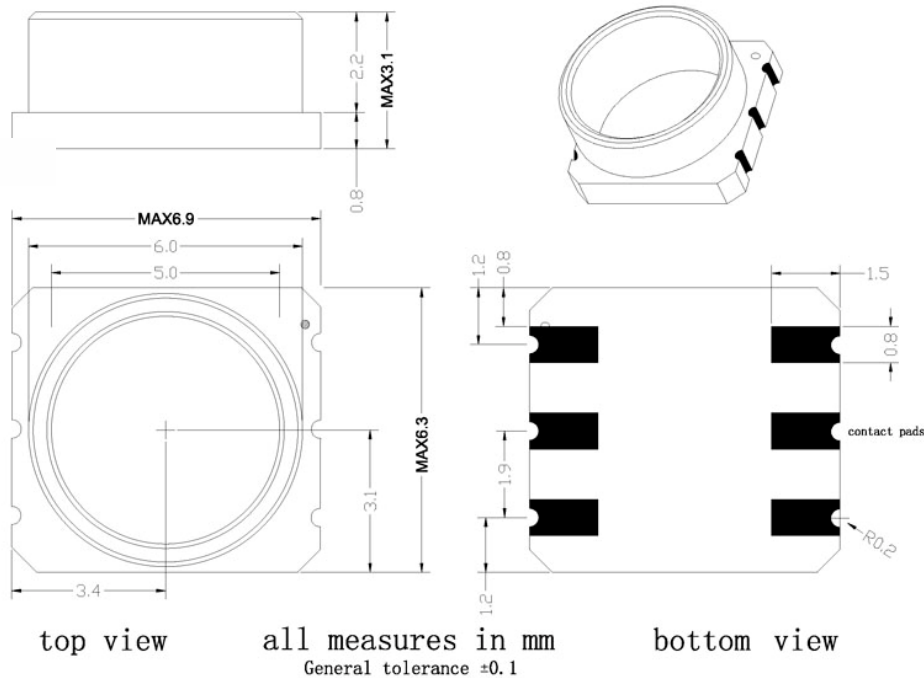


## Pin Configuration

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



## ORDERING INFORMATION

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