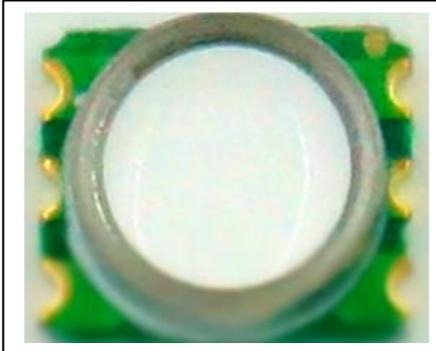


## Absolute Pressure Sensor (0-5 BAR)



- 0 to 500kPa pressure range (7bar or 72.5PSI)
- 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

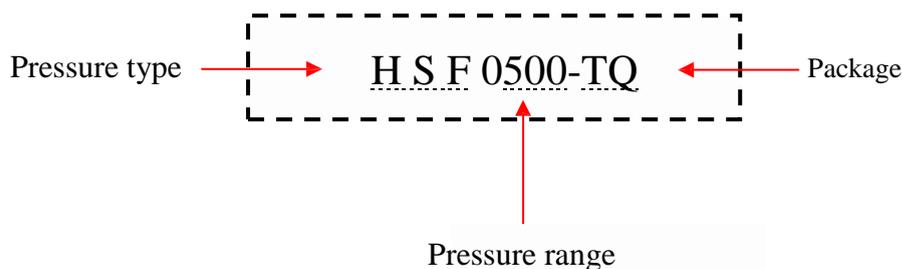
### APPLICATION

- For high resolution absolute sensor systems
- Engine Controls
- Tire pressure monitoring systems
- Contact with oils and LPG

### Full Scale Pressure

kPa	bar	mbar	PSI	atm	mmHg	kg/cm2
500	5	5000	72.5	5	3750	5

### Part number System



## Characteristics

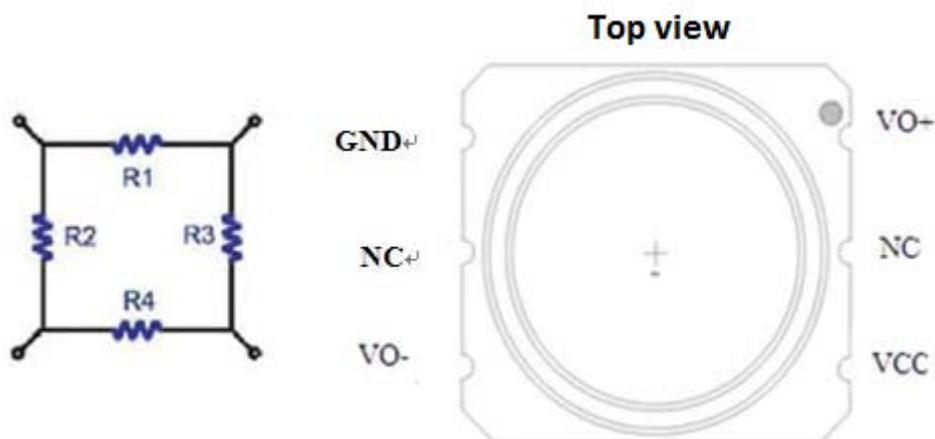
Working conditions: DC@5V, Pressure 500KPa ,temperature 25 °C, humidity at 30%

Item	Min	Typical	Max.	Unit
Pressure Range		500		Kpa
Supply voltage	0	5.0	10.0	Volts
Current	0	1.0	3.0	mA
Span	50	70	100	mV
Offset	-15		15	mV
Temperature Coefficient – Span	-25	-19	-15	%FS/100°C
Temperature Coefficient – Zero	-7		-7	%FS/100°C
Nonlinearity	-0.2	±0.1	0.2	%F.S
Bridge resistance	4.5	5	5.5	KΩ
Proof pressure			3X	Rated FS
Operating temperature	-40		125	°C
Storage temperature	-55		150	°C

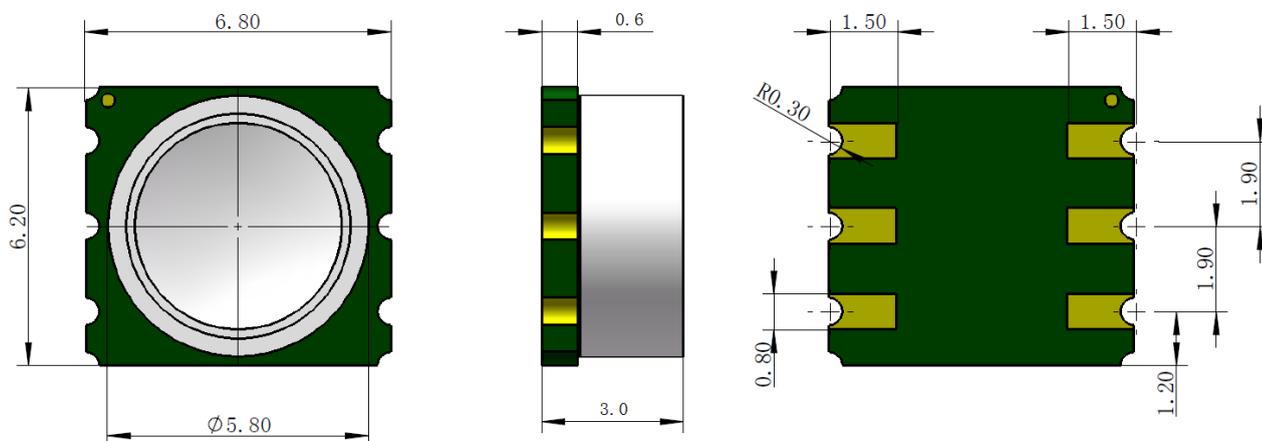
1. Best fit straight line.
2. Coefficients are typical values between -10°C and 40°C.

## Pin Configuration

PAD	1	2	3	4	5	6
Definition	Vo+	NC	VCC	VO-	NC	GND



## Package Outlines



### Notes:

Mechanical dimension is mm

General tolerance  $\pm 0.10$

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