

Solid State Pressure Sensor

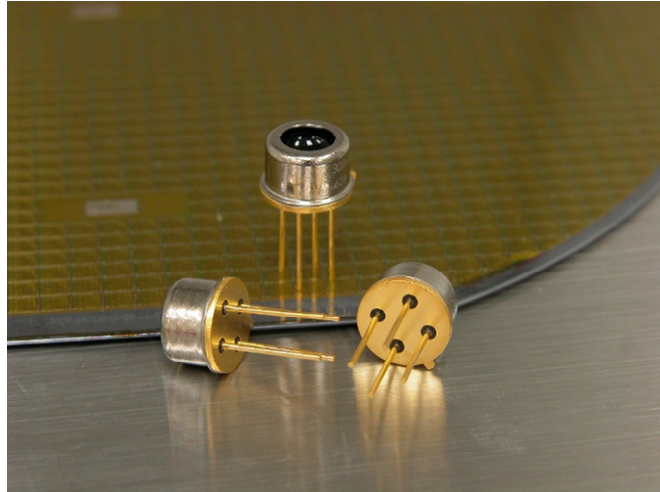
STD Series - Model 60

FEATURES

- Solid State Reliability
- Absolute Pressure
- Rigid Package
- Low Cost

APPLICATIONS

- Barometer
- Cable Fault Detector
- Pneumatics
- Automotive



DESCRIPTION

The STD Series model 60 is a silicon MEMs piezoresistive sensor in a reliable TO-5 metal can package. The sensor is suitable for mounting directly onto a printed circuit board.

This sensor is designed for extremely cost sensitive OEM applications where the sensing element is integral to the OEM equipment. They are intended for use with non-corrosive, non-ionic media.

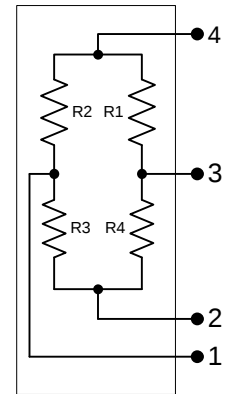
The sensors are available in full scale ranges from 15 psia to 100 psia. They can also be packaged with specific pressure die to meet custom applications. For custom parts, please contact the factory for details.



Characteristics

Unless otherwise specified, all parameters are measured at 25 °C and excitation of 5V

Parameters	Min	Typ	Max	Unit
Excitation Current		1.5		mA
Excitation Voltage	0	5.0	10.0	Volts
Span	60	100	140	mV
Offset – 0 psia	-30		+30	mV
Bridge Impedance	4	5	6	kohm
Linearity ^{NOTE1}	-0.3	±0.1	+0.3	%FS
TC - Span ^{NOTE2}		-22±5		%FS/100°C
TC - Offset ^{NOTE2}		±8		%FS/100°C
Hysteresis		±0.2		%FS
Temp - Operating	-40		+125	°C
Temp - Storage	-40		+150	°C
Over Pressure			2X	Rated Pres.

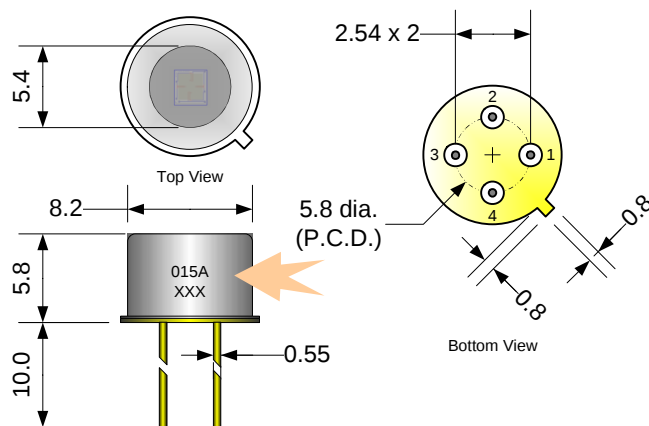


Equivalent Circuit

Notes:

1. Best Fit Straight Line
2. Temperature coefficient is measured from 0 °C to 70 °C
3. Wetted material contains Ni and Silicone Gel

Dimension



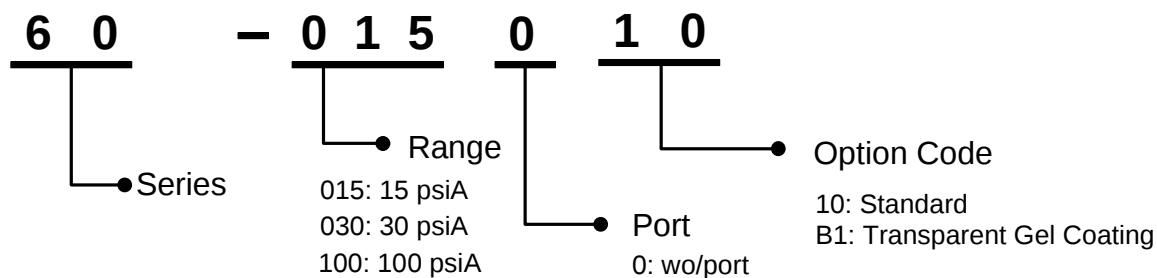
Soldering leads: max. 250 °C 5s

Lead	Connection
1	- Vo
2	- Sup
3	+Vo
4	+Sup

NOTES:

1. Pins and header are Kovar with gold plating
2. Cap w/tube is made of SPCC with nickel plating
3. Cap w/tube is made of brass with nickel plating

Ordering Information



RM/1005/10F Ho King Comm Ctr,
2-16 Fa Yuen St. Mongkok Hong Kong,
Tel: +852 81973212
Email: info@senphire.com
www.senphire.com

Senphire Ltd. reserves the right to change specifications without prior notice

Disclaimer/Warranty/Notice

Senphire Ltd products are not authorized for use in applications where failure could result in loss of life or injury. While Senphire provides application assistance personally, through our literature and website, it is the responsibility of the customer to determine the suitability of the product for the intended application.

All information provided is believed to be accurate at the time of publishing however Senphire Ltd reserves the right to make changes without prior notice.

Senphire Ltd warrants its products to be free of manufacturing defects for a period of 12 months from the date of purchase. The maximum liability, expressed or implied shall be limited to a direct replacement of those products Senphire finds defective. The foregoing is the Buyers Sole remedy in lieu of all other warranties, expressed or implied including those of merchantability and fitness for a particular purpose.

The rest of this page has been left intentionally blank



RM/1005/10F Ho King Comm Ctr,
2-16 Fa Yuen St. Mongkok Hong Kong,
Tel: +852 81973212
Email: info@senphire.com
www.senphire.com

3/3

Ver 1.3 7 May 13