

- **Constant voltage excitation**
- **Easy to use SIP package**
- **Wide compensated range**
- **Zero and span calibration**
- **Outstanding long term stability**

The miniature low pressure sensor HPSAV 3300 is an OEM pressure sensing device with temperature compensated and calibrated output. This transducer was specifically designed to provide a stable output signal (offset and span) over a wide temperature range

Applications:

Medical instrumentation

HVAC

Leak detection

Altimeters

Respirators

Process control

Pneumatic controls

from 0 to 70°C. Thick film resistors printed on substrate are individually laser trimmed to provide temperature compensation, zero and span calibration. The HPSAV3300 is intended for use with non-corrosive gases and fluids.

Specifications				
Parameter	Unit	Min.	Typ	Max.
Input voltage	V		12	20
Bridge resistance	kΩ	2		4
Thermal error of span (0 to 70° C)	%FS		±0.2	±1
Thermal error of offset (0 to 70° C)	mV		±0.2	±0.5
Combined linearity and hysteresis	%FS		±0.2	±0.5
Input impedance	kΩ	4		25
Output impedance	kΩ	2		4
Repeatability	%FSO	±0.05		
Long term stability of offset and span	mV		±0.1	
Media compatibility	see specification notes			
Weight	g		7	

TAMB = 25° C

Vcc = 5 V, unless otherwise noted

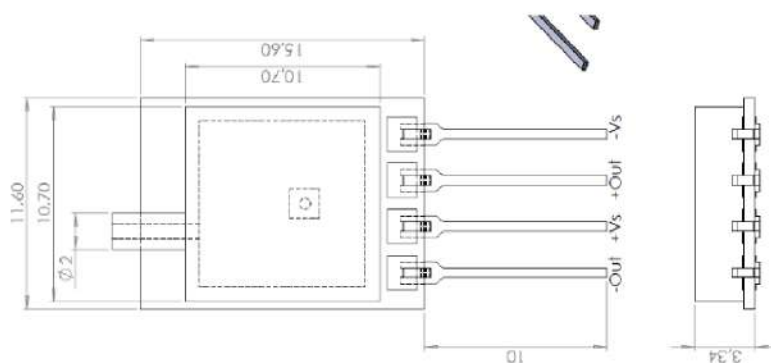
Pressure range	0 - 75 mbar
V _{out}	20 ± 0.2 mV
V _{ofs} (MAX)	± 0.5 mV
Operating Temp	-25 to 85° C
Compensated Temp.	0 to 70°
Storage Temp	-40 to 125° C
Over pressure	1000 mbar
Burst pressure	1500 mbar



Specification notes

- 1) Over pressure is the maximum pressure which may be applied without causing damage to the sensing element
- 2) Burst pressure is the maximum pressure which may be applied without causing leakage damage to the sensing element
- 3) Analog output signal is ratiometric to power supply Vcc.
- 4) Offset voltage is the voltage output at zero pressure.
- 5) Span is the algebraic difference between the output at full scale pressure range and offset.
- 6) Thermal error of span and offset represents the maximum deviation of transducer signal (span and offset) through whole compensated temperature range from 0 to 70° C in comparison to value at 25° C.
- 7) Repeatability is defined as typical deviation of the output signal after 10 pressure cycles.
- 8) Nonlinearity is defined as the BFSL (best fit straight line) across entire pressure range, measured on P1 - top die side.
- 9) Media compatibility on pressure port P1: clean, dry and noncorrosive gases to silicone, RTV, ceramics, Al₂O₃, gold, epoxy, polymer.

Dimensions



Ordering information

(Please use the characters in the chart below to construct your product code)

Sample Code HPSAV3300 - 0075 - D

Pressure Range

0075 75 mbar

Pressure Type

D Differential

Custom options available on request

If you require a customized solution for your program contact our sales team.