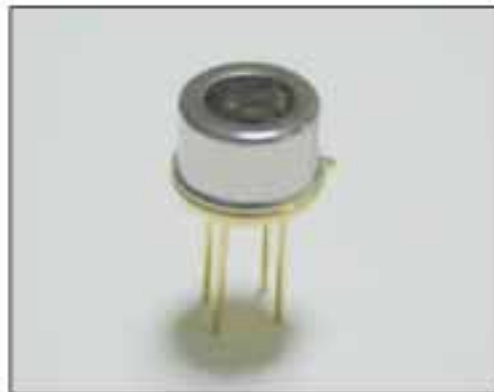


STS100Q4F Pressure Sensor



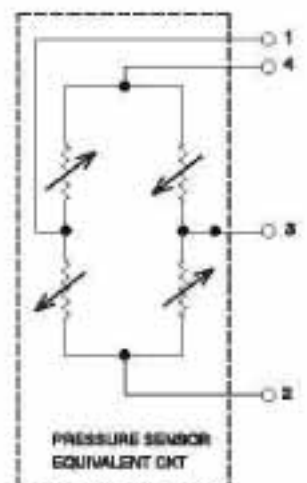
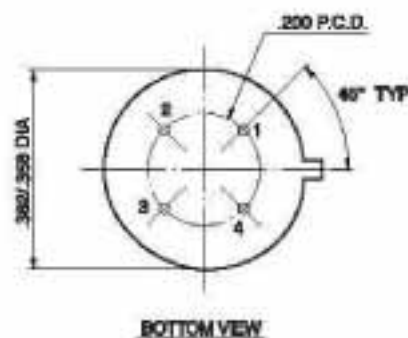
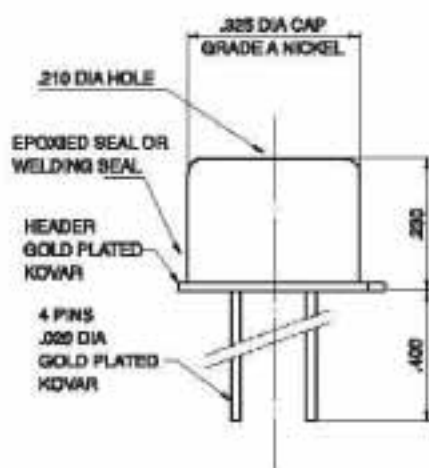
FEATURES

- Low Cost Sensor Element
- High Performance
- Absolute Pressure

APPLICATIONS

- Altimeters
- Weather Station
- Pneumatic Control
- Cable Fault Detection

DIMENSION



PIN#	PIN OUT
1	Vs-
2	Out+
3	Vs+
4	Out -

Characteristics:

This specification is based on a nominal 5V supply, Since the pressure sensor is a ratiometric device, voltage measurements need to be appropriately scaled for operating conditions as supplies other than 5V.

Item	Min	Typial	Max	Units
Excitation Voltage	0	5.0	10.0	Volts
Excitation Current	0	1.5	3.0	mA
Span (FS Range)	80	100	120	mV
Offset	0	20	35	mV
TC Span		<5		%FS/100°C
TC Offset		<5		%FS/100°C
Linearity	-0.3	+/-0.1	+0.3	%F.S
Bridge Impedance	2.5	3.0	3.5	KΩ
Pressure Overload			2X	Pressure Rated.F.S.
Operating Temp.	-40		125	°C
Storage Temp.	-10		80	°C

All parameter are tested at 5V supply. Parameters are additionally tested at 5V as indicated.

Notes:

1. Tested at 5V supply and the typical value is available between -10°C and 40°C temperature coefficients.
2. Difference between pressure at span and 0 psi, this corresponds to the maximum discrepancy possible due to device non-linearity.
3. Difference between pressure linearly approximated and the actual pressure over the span of the sensor, measured as a percentage of the full scale output.
4. Difference between pressure linearly approximated and the actual pressure over the application pressure range, measured as a percentage of the full scale output.