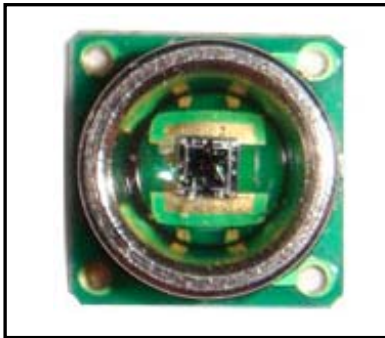


HRPF0200 RELATIVE PRESSURE SENSOR (0-200kPa)



- 0 to 200kPa gage pressure range
- MEMS technique relative pressure sensor
- High sensitivity, high linearity
- Low cost SMD package
- RoHS-compatible & Pb-free

DESCRIPTION

The HRP series is a relative pressure sensor module, The design of the pressure sensor in the module is based on MEMS IC technology. The technology assures PN junction reverse current $< 10^{-10}$ A. The module has good linearity, sensitivity and high reliability.

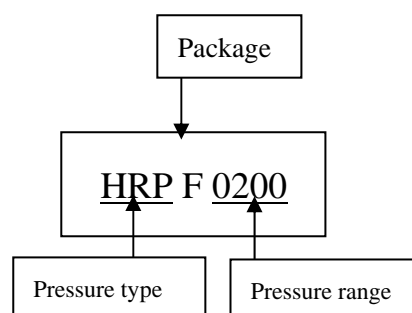
FEATURES

- Uncompensated pressure sensor
- Temperature Range $-30^{\circ}\text{C} \sim +135^{\circ}\text{C}$
- Small size
- Low Cost, High reliability

APPLICATION

- breathing measurement
- pulse measurement
- high speed analysis for small amounts of material
- pressure switch
- environment control
- liquid level control
- Filter Blocked Sensor
- HVAC fan control
- leakage detection systems

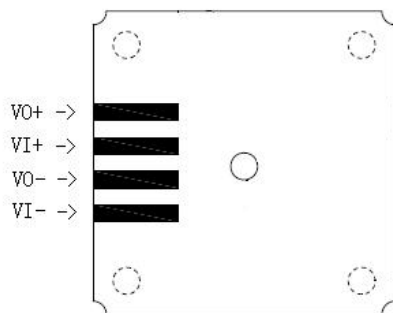
Part number System



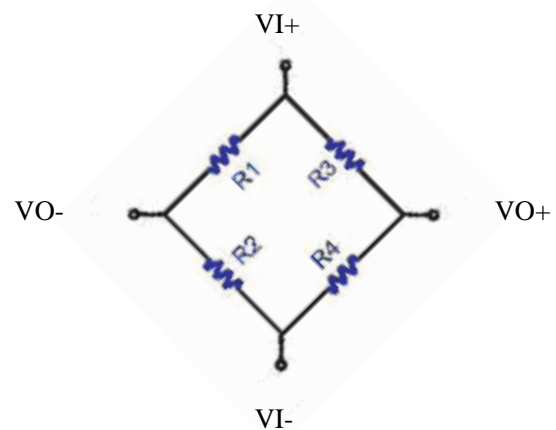
Electrical Characteristics

Item	Min	Typical	Max.	Unit
Pressure Range		30PSI		
Supply voltage	0	5.0	10.0	Volts
currency	0	1.5	3.0	mA
Span	70	100	130	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	-0.2		+0.2	%F.S
Bridge resistance	4.0	5	6.0	K Ω
Proof pressure			2×	Rated FS
Operating temperature	-40		125	°C
Storage temperature	-40		125	°C

Pin Configuration (SMD Pressure sensor)

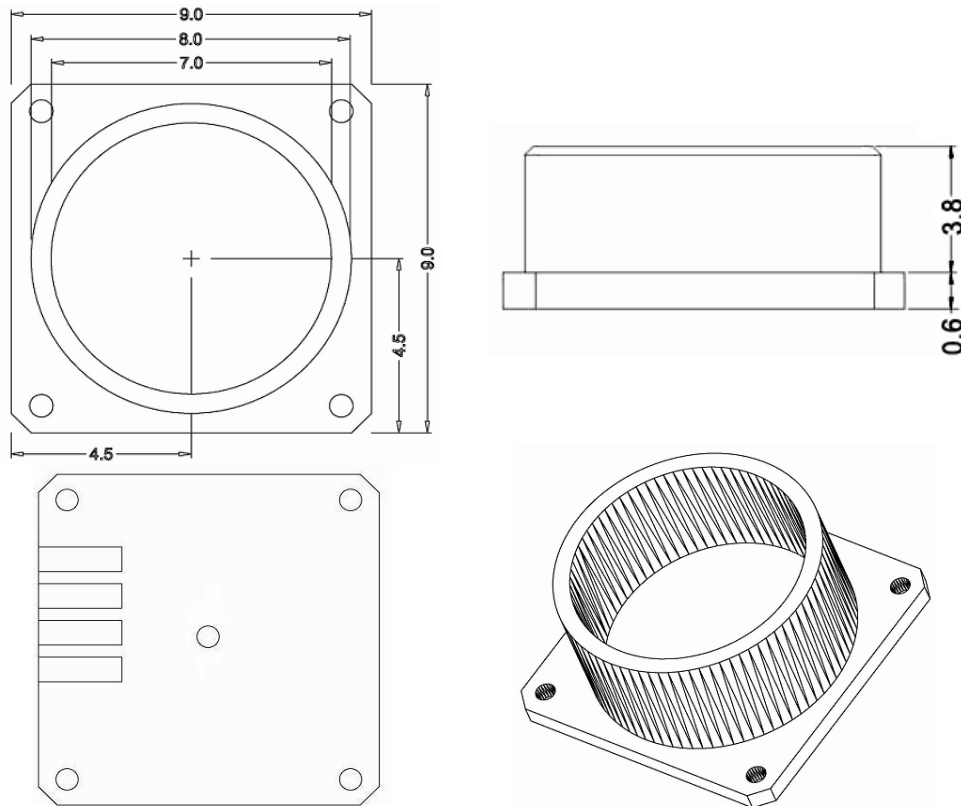


Bottom View



Pin	Name	Comment
1	VI-	GND
2	VO-	Negative output
3	VI+	Supply votage
4	VO+	Positive output

FR4 Package Outlines (all measures in mm)



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