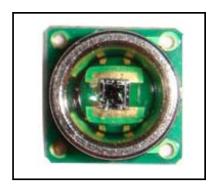


# HRPF0700 RELATIVE PRESSURE SENSOR (0-700kPa)



- 0 to 700kPa 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.

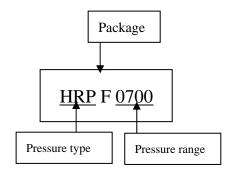
### **FEATURES**

- Uncompensated pressure sensor
- Temperature Range -30°C ~ +135°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

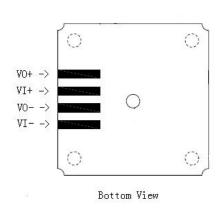


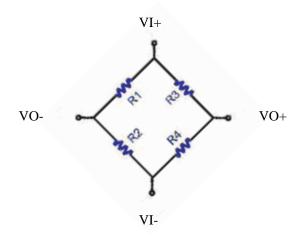


## **Electrical Characteristics**

	Min	Typical	Max.	Unit
Item				
Pressure Range		100PSI		
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℃
Temperature coefficient of Zero	-4	-6	-8	%FS/100℃
Nonlinearity	-0.2		+0.2	%F.S
Bridge resistance	4.0	5	6.0	KΩ
Proof pressure			$2\times$	Rated FS
Operating temperature	-40		125	$^{\circ}$ C
Storage temperature	-40		125	$^{\circ}$ C

## **Pin Configuration** (SMD Pressure sensor)

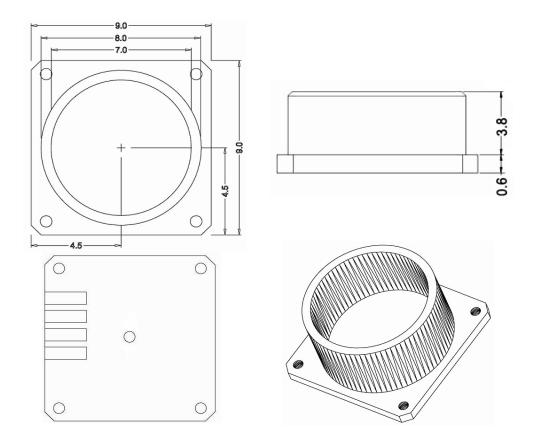




Pin	Name	Comment	
1	VI-	GND	
2	VO-	Negative output	
3	VI+	Supply votage	
4	VO+	Positive output	

# **HOPE RF**

## FR4 Package Outlines (all measures in mm)



#### HOPE MICROELECTRONICS CO.,LTD

4/F, Block B3, East Industrial Area, Huaqiaocheng, Shenzhen, Guangdong, China

Tel: 86-755-82973805

Fax: 86-755-82973550

Email: sales@hoperf.com

Website: http://www.hoperf.com
http://www.hoperf.cn
http://hoperf.en.alibaba.com

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