

Absolute Pressure Sensor (0-10 BAR)



- 0 to 1000kPa pressure range (10bar or 150PSI)
- Absolute pressure sensor
- Silicon/Grass Bonding wafer, high stability
- Miniature surface mount
- RoHS-compatible & Pb-free
- Provide the other gage pressure range sensor

DESCRIPTION

The Series of pressure sensor is a silicon micro-machined membrane, piezo-resistive sensor. They were designed for extremely cost sensitive applications where the sensing element is to be integral to the OEM equipment, and are intended for use with non-corrosive, non-ionic media. They also may be packaged with application specific sensor die so that the performance characteristics and output range also can be identified.

FEATURES

- Uncompensated pressure sensor
- Temperature Range -40°C ~ +125°C
- Low Cost, High reliability

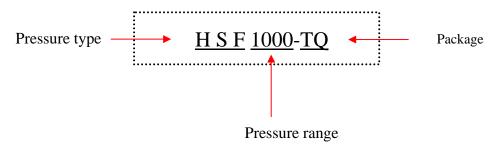
APPLICATION

- For high resolution absolute sensor systems
- Engine Controls
- Barometers, Altimeters, Variometers

Full Scale Pressure

kPa	bar	mbar	PSI	atm	mmHg	mmH ₂ O	kg/cm2
100	1	1000	15	1	750	10207	1

Part number System



Tel: +86-755-82973805 Fax: +86-755-82973550 E-mail: sales@hoperf.com http://www.hoperf.cn



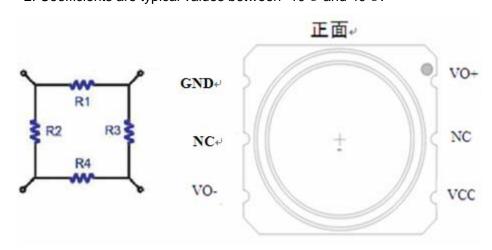
Characteristics

Workingconditions:

Item	Min	Typical	Max.	Unit	
Pressure Range		150PSI			
Supply voltage	0	5.0	10.0	Volts	
currency	0	1.5	3.0	mA	
Span	60	100	140	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	0.1	0.5	%F.S	
Bridge resistance	4.0	5	6.0	ΚΩ	
Proof pressure			2×	Rated FS	
Operating temperature	-40		125	$^{\circ}\! \mathbb{C}$	
Storage temperature	-40		125	$^{\circ}\!\mathbb{C}$	

WAFER ELECTRICAL CONNECTIONS

- 1. Best fit straight line.
- 2. Coefficients are typical values between -10 $^{\circ}$ C and 40 $^{\circ}$ C.



Pin Configuration

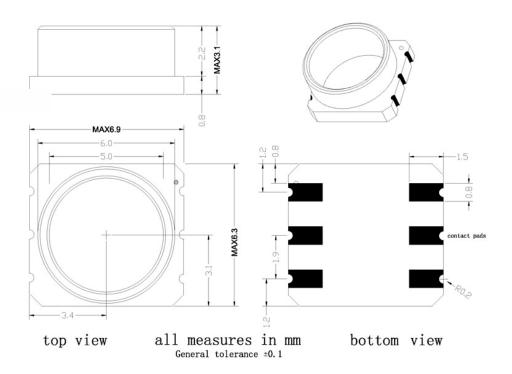
PAD	1	2	3	4	5	6

Tel: +86-755-82973805 Fax: +86-755-82973550 E-mail: sales@hoperf.com http://www.hoperf.com



VER:2.1

FR4 Package Outlines



ORDERING INFORMATION

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

This document may contain preliminary information and is subject to change by Hope Microelectronics without notice. Hope Microelectronics assumes no responsibility or liability for any use of the information contained herein. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Hope Microelectronics or third parties. The products described in this document are not intended for use in implantation or other direct life support applications where malfunction may result in the direct physical harm or injury to persons. NO WARRANTIES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MECHANTABILITY OR FITNESS FOR A ARTICULAR PURPOSE, ARE OFFERED IN THIS DOCUMENT.

©2006, HOPE MICROELECTRONICS CO.,LTD. All rights reserved.