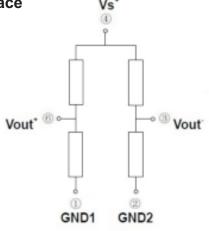


# **PZP111 SMD-type Absolute Pressure Sensors**

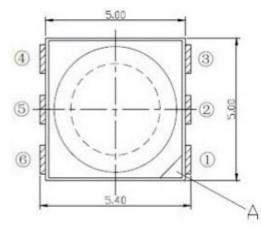
### Introduction

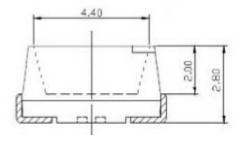
PZP111 is a SMD-type absolute pressure sensor. It is designed for cost sensitive application and intended for measuring non-corrosive and non-conductive media. It is based on a micro-machined silicon piezoresistive chip which is integrated on a 5.0 × 5.0mm of PPA board. The chip is effectively protected against humidity by neutral soft silicone adhesive. Its open-loop circuit design makes subsequent circuit processing more convenient. Its output signal is highly ratiometric (or proportional) to the pressure loaded with non-linearity of 0.3%FS (typical).





### **Dimensions**



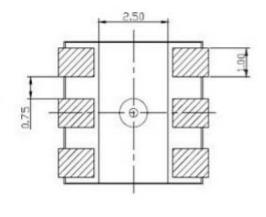


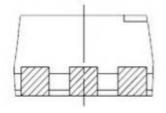
## Features

- Pressure range: 0~1bar, 0~2bar, ..., 0~20bar
- Pressure types: absolute
- Non-linearity: 0.3%FS (typical)
- No temperature compensated
- Excited by either current or voltage
- -Operating temperature range: -40°C ~ +125°C
- -Low cost, high reliability and long-term stability

## **Applications**

- Industrial process control
- Engine control
- Barometer, altimeter, tire pressure gauge
- Weather forecast system





# **Proza Electronic Technology**

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Note: all dimensions are in mm.

QiHangJiaYuan Plaza,Block A,12# Building, Room 704, FengDong New Town,Xi'an



# **PZP111 SMD-type Absolute Pressure Sensors**

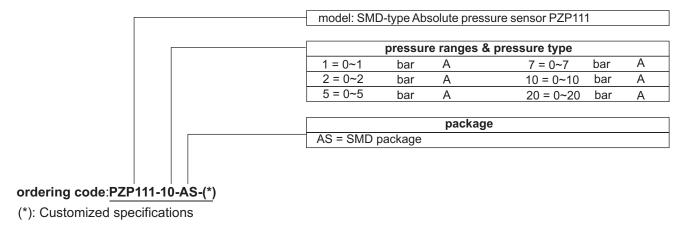
### **Specifications**

Parameter		Units		Data (*)		Notes
			Min	Typical	Max	
Pressure type & ranges		bar	_	Absolute(A): 0~1, ~2, ~5, ~7, ~10, ~20	_	[1]
Overload pressure		%FS	_	-	300	[2]
Excitation ( Voltage )		V	2	5	15	
Excitation ( Currency )		mA	0.5	1	3	
Full scale output	@1bar	mV	50	70	90	
	@2bar	mV	100	130	160	
	@5bar	mV	45	60	75	
	@7bar	mV	70	100	130	
	@10bar	mV	90	120	150	
	@20bar	mV	100	130	160	
Zero offset		mV	-20	0	+20	
Non-linearity		%FS	0.1	0.3	0.5	
Bridge resistance		ΚΩ	4.5	5	5.5	
Operating temperature range		°C	-40	-	+125	
Storage temperature range		°C	-40	_	+150	
Temperature coefficient of zero		uV/°C	-80	-	80	
Temperature coefficient		ppm/°C	-1500	-2000	-2400	
Hysteresis		%FS	-	<u>-</u>	0. 2	
Repeatability		%FS	-	-	0. 2	

#### Notes:

- (\*). Testing Conditions: ambient temperatur =  $25^{\circ}$ C, excitation voltage = 5Vdc, humidity = 30%.
- [1]. For customized pressure ranges, please consult Proza.
- [2]. "FS" refers to full scale pressure or rated pressure.

### **Ordering Guide**



#### **Order Notes**

For any critical working environment or pressure media, please inform PROZA before order.

# **Proza Electronic Technology**

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