



WF162L-11Bar Analog Pressure Sensor

1100kPa Absolute Pressure Sensor

1. Overview

The WF162L-11Bar is a pressure sensor product without temperature calibration compensation. Its core component is a silicon-silicon bonded MEMS piezoresistive pressure sensor chip, using an N-type substrate and P-type piezoresistive structure to form a Wheatstone full bridge. Under standard operating power, the sensor can output a millivolt-level voltage signal with a good linear relationship to the measured pressure, exhibiting high sensitivity and good repeatability. The product uses an LGA package with a PCB and metal casing for convenient surface mounting.

Features:

- Pressure measurement range: Absolute pressure 0~1100Kpa
- Nonlinearity: $\pm 0.2\%$ FS
- Operating temperature: $-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$
- Package size: $3.6\times 3.8\text{mm}$

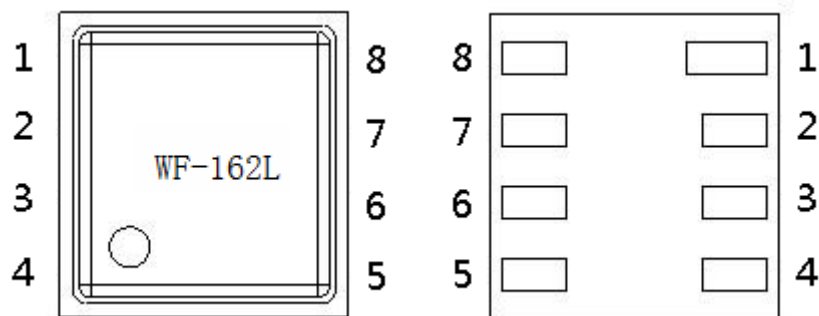
Applications:

- Air pumps
- TPMS/handheld tire pressure gauges
- Absolute pressure control systems
- Consumer application products

● 99.99% pure gold wire, high-TG substrate, imported materials, waterproof adhesive, 350°C ultra-high temperature soldering without cap falling off.

2. Pin Description

2.1 Pin Arrangement Diagram

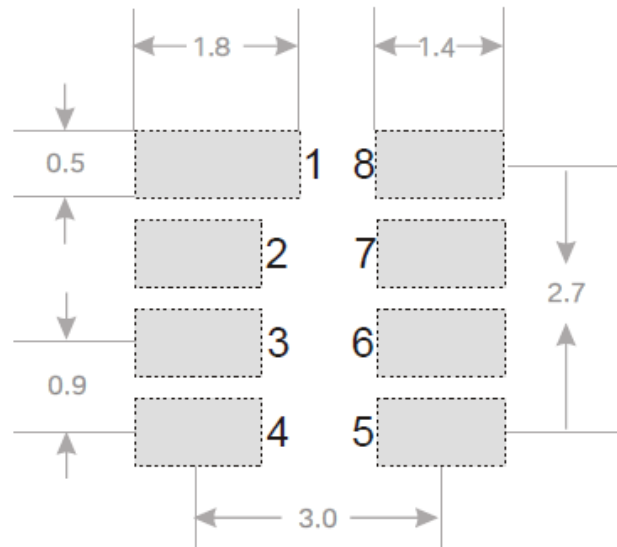


2.2 Pin Definitions

Pin	Sign	Function
1	Vout+	Output +
2、4、5、7	NC	NC
3	VDD	Power supply positive
6	Vout-	Output -
8	GND	Power supply -



2.3, Recommended PAD Layout



3. Electrical Characteristics

Unless otherwise specified, all parameters are measured under 5V power supply and at 25°C with a relative humidity of 15% to 90%.

Parameter	Min	Typical	Max	Unit	Note
Excitation Voltage	1	5	10	V	
Excitation Current		1	2	mA	
Pressure Range	0~1100			kPa	1
Pressure Type	Absolute Pressure			/	
Zero Output	-40		+40	mV	
Full Scale Output	70	100	180	mV	
Bridge Resistance	4.5	5	5.5	kΩ	2
Zero Output Temp. Coefficient	-30	20	+70	μV/°C	3
Full Scale Output Temp. Coefficient	-0.25	-0.2	-0.15	%FS/°C	3
Non-linearity	-0.2	±0.1	+0.2	%FS	4
Pressure Hysteresis	-0.2		+0.2	%FS	
Overload Pressure	2X			Rated FS	
Burst Pressure	4X			Rated FS	
Operating Temperature	-40		+125	°C	
Storage Temperature	-50		+150	°C	

Notes:

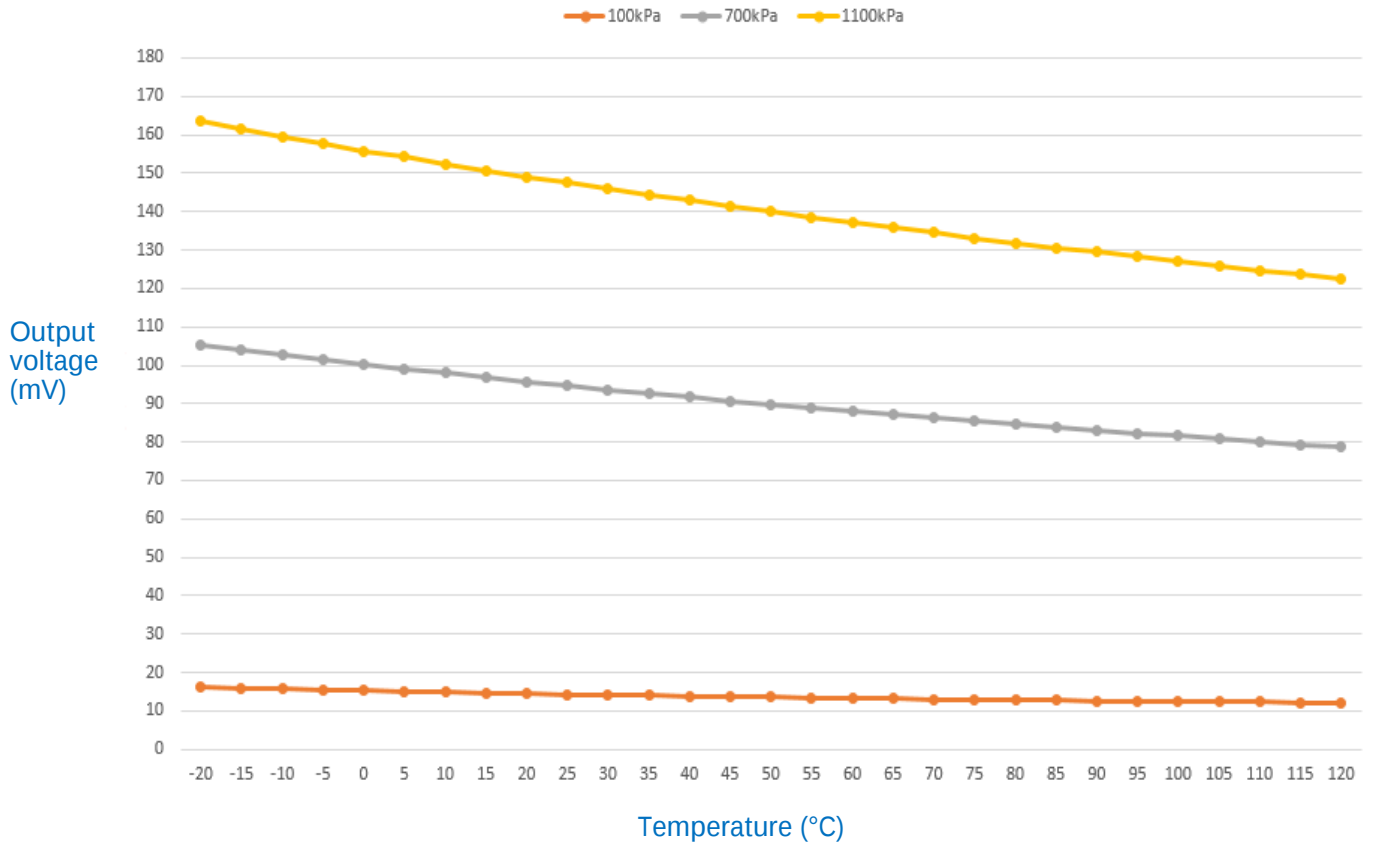
1. Other ranges within 100~2000 kPa can be customized.
2. Bridge arm resistance value can be customized.
3. Test data within the 0~80°C range.
4. Best-fit straight line.



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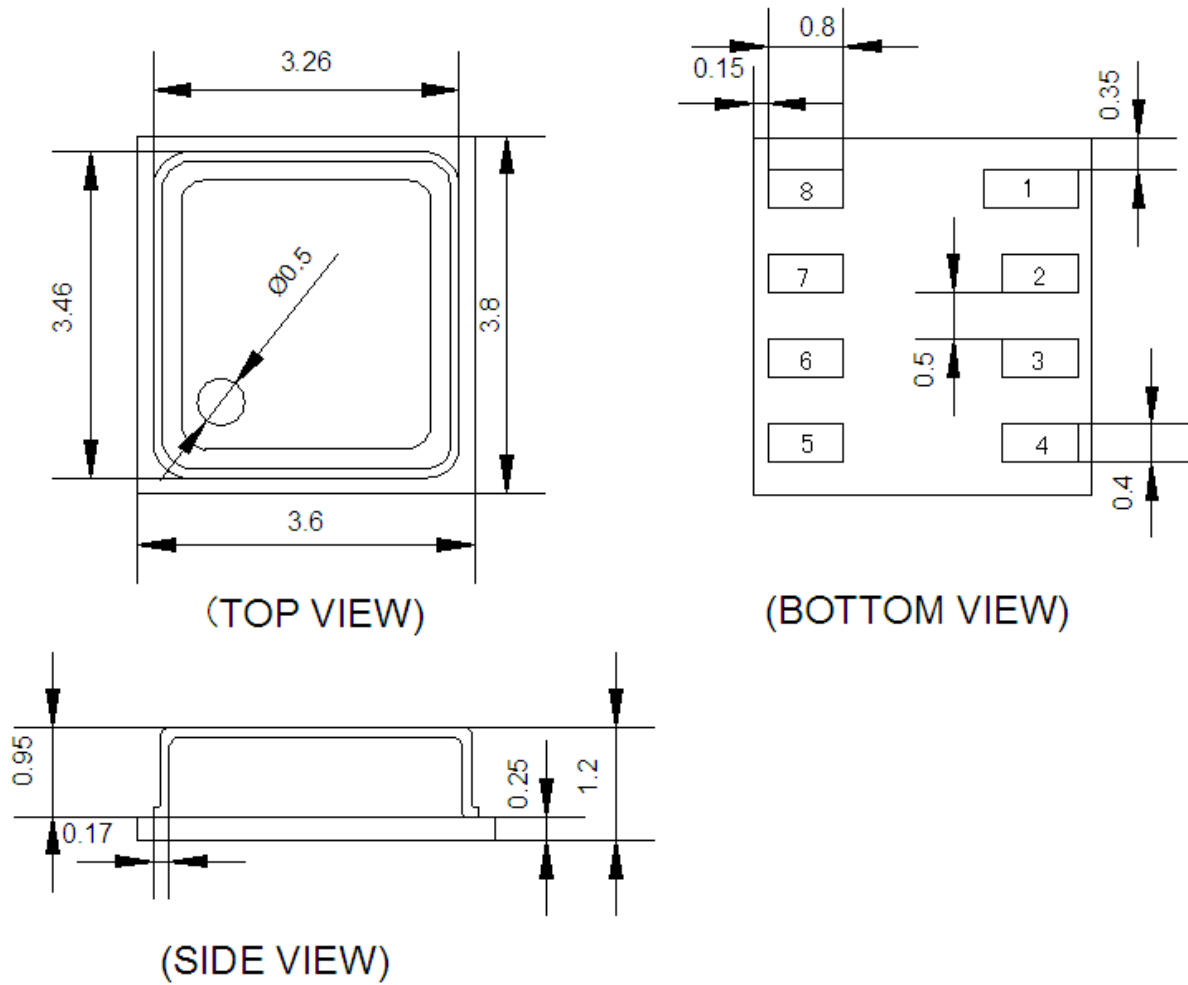
4. Sensor Air Pressure and Temperature Chart

Testing voltage: 5V





5. Package Dimensions and Outline Drawing



6. Product Description

Product Model	Pressure Range	Pressure Type
WF162L-11Bar	1100kPa	Absolute Pressure