

GMP01-WB01 Silicon Pressure Sensor

General Introduction

GMP01-WB01 is an absolute type silicon pressure sensor especially designed for applications requiring pressure measurement from 0 to 400 kPa. The pressure sensor is based on the industry-recognized piezo-resistive technology featuring long-term stability and EMC robustness. Its small size, $0.9 \times 0.9 \text{ mm}^2$, benefits the miniature packages.

	Features						
O	Operation range: 0~400 kPa	O	Small size: $0.9 \times 0.9 \text{ mm}^2$				
O	Absolute type sensor	O	Low cost				
O	Constant current or constant voltage drive						
	Applications						
Tire	pressure sensor, pressure gauge, industria	l sensor	n -				
O	Tire pressure sensor	O	Pressure gauge				
0	Industrial sensor						

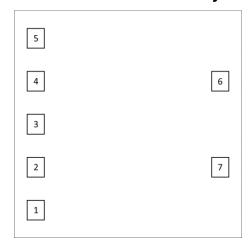


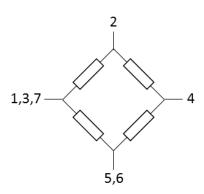
Specifications

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Operation voltage	Vin		_	5	10	V
Operation current	Ι0		_	1	2	mA
Bridge impedance			5	5.4	6	kΩ
Pressure range			0		400	kPa
Full scale span	FS	Vin=5V		260		mV
Offset		Vin=5V	20	35	60	mV
Linearity			-0.3	±0.15	+0.3	%FS
mo		Constant voltage	-0.17	-0.22	-0.27	%FS/°C
TC span		Constant current	-0.08	±0.02	+0.08	%FS/°C
TC offset			-0.08	-0.05	+0.08	%FS/°C
Burst pressure					ЗХ	Rated FS
Temperature range			-40	25	+85	°C
Storage temperature			-40		+125	°C



Pads layout and definition





O Die size: 0.9mm×0.9mm (without scribe line)

O Pad size: 70μm×80μmO Scribe line: 80μm

Pin#	Name	Description
1	Vout+	Output voltage +
2	Vin	Power supply in
3	Vout+	Output voltage +
4	Vout-	Analog output voltage -
5	GND	Ground pad
6	GND	Ground pad
7	Vout+	Output voltage +