

#### **GMPB01 Silicon Pressure Sensor**

#### **General Introduction**

GMPB01 is a gauge type silicon pressure sensor especially designed for applications requiring highly-precision pressure measurement from 0 to 40kPa. The pressure sensor is based on the industry-recognized piezo-resistive technology featuring long-term stability and EMC robustness. Both DIP or SOP type of packages are available.

#### **Features**

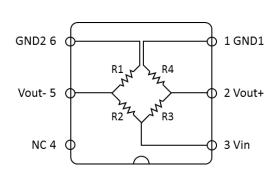
- O Operation range: 0~40kPa
- O Gauge type sensor

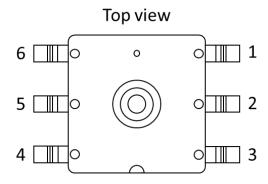
- O SOP6 or DIP6 package
- O Low cost

### **Applications**

- O Medical instrumentation
- O Industrial sensor

- O Pressure gauge
- O Home appliance











GMPB01-0P



GMPB01-0B



# **Pin Descriptions**

Pin#	Name	Description		
1	GND1	Ground pin 1		
2	Vout+	Signal out +		
3	Vin	Power supply in		
4	NC	No connection		
5	Vout-	Signal out -		
6	GND2	Ground pin 2		

## **Specifications**

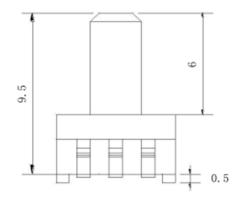
Parameter	Condition	Min.	Тур.	Max.	Unit
Excitation voltage		_	5	10	V
Bridge impedance		4.6	5.6	6.6	$\mathrm{k}\Omega$
Span		0	_	40	kPa
Full scale span	Vin=5V	80	100	120	mV
Offset	Vin=5V	-70	0	70	mV
TC resistance		1500	2000	2500	ppm/°C
m.c	Constant voltage	-0.27	-0.22	-0.17	%V <sub>FS</sub> /°C
TC span	Constant current	-0.05	_	0.05	%V <sub>FS</sub> /°C
TC offset		-0.08	_	0.08	$%V_{\mathrm{FS}}$
Linearity	Best fit straight line		±0.5		$%V_{\mathrm{FS}}$
Hysteresis			±0.5		$%V_{\mathrm{FS}}$
Proof pressure				2X	FS
Burst pressure				3X	FS
Operating temperature		-40		+125	°C
Storage temperature		-55		+150	°C

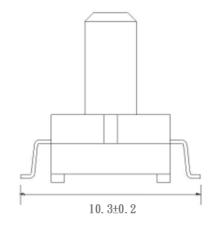


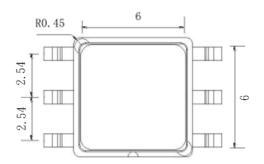
## Package

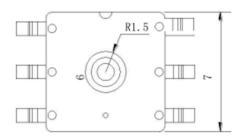
# GMPB01-0S (SOP6 Tube)

### Unit: mm







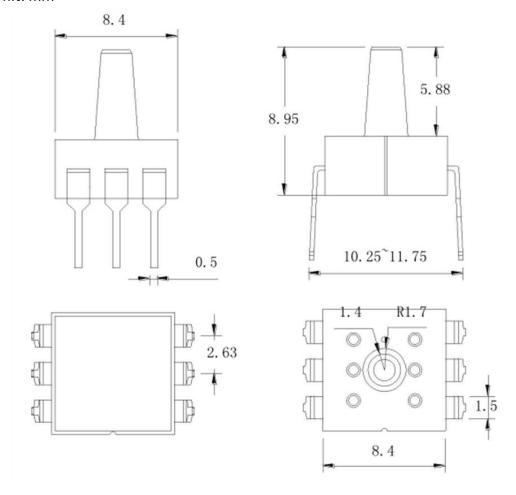




## Package

# **GMPB01-0P (DIP Top Tube)**

Unit: mm





## Package

# **GMPB01-0B (DIP Bottom Tube)**

