

Pressure-Sensor.com

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Model PSC627

Plastic Package Gauge Pressure Sensor for Low to Medium Pressure **Industry and General Purpose Applications**

PSC627 was developed for low cost printed circuit board mounted pressure measurements. The design incorporates state of the art digital temperature correction of a micro-machined silicon pressure die for high end accuracy and stability. The design offers a very cost effective solution.

The wetted parts are PPS Silicon, Pyrex and RTV. Plastic housing: 6 pin DIP PCB mounting. Well suited for compressed air applications.

Available output types: Analog or Digital output.



- Gauge Pressures
- ASIC Temperature Compensated
- 2.5 % Total Error Band
- · Process Port: Male Needle
- Housing: Plastic (PPS)
- Electrical Connection: Leads (6 Pins)

Sample Applications:

- · Compressed Air
- · Moisture Air

PSC627 Ordering Model NO.: PSC627X-Y		
X	Υ	
A=Analog	Pressure Range	
	1 = 1 Psi (G)	
	2 = 5 Psi (G)	
D=Digital	3 = 15 Psi (G)	
	4 = 50 Psi (G)	
	5 = 100 Psi (G)	
	6 = 150 Psi (G)	
	7 = 200 Psi (G)	

Electrical data	PSC627A	PSC627D
Electrical data	(Ratiometric)	
Supply Voltage	4.0 ~ 5.5 VDC	3.0 ~ 5.0 VDC
Output	0.5 ~ 4.5 VDC	

Digital output type:			
Output	I ² C(0x28 Fixed and Locked		
Update Rate	1.5ms		
Clock Frequency	4MHZ		
Temperature Calculation Temp output[C]=(High Temp[7:0]x8+Temp Low[7:5])/2 ¹¹ x200-50			



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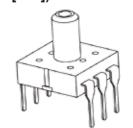
Model PSC627

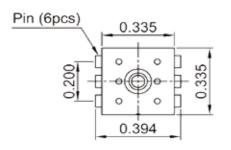
Pressure Sensor with Digital Output for Low to Medium Pressure Industry and General Purpose Applications

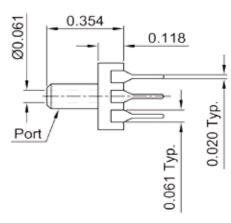
Performance (specified @ 25 ℃)				
Accuracy (Best fit straight line)	± 0.5% FS			
Error (TEB)	± 2.5% FS			
Stability (typical)	< ±0.25% full scale per year			
Compensated Temperature Range	-30℃~50℃			
Operating Temperature Range	-40℃~105℃			
Storage Temperature Range	-40℃~125℃			
Burst Pressure	1 ~ 100psig : 3 X Full Scale			
Durst i ressure	150psig & 200psig : 325psig			
Proof Pressure	1.5 X Full Scale			
Fatigue Life	1 Million Full Scale Pressure Cycles At 0.5 Hertz			

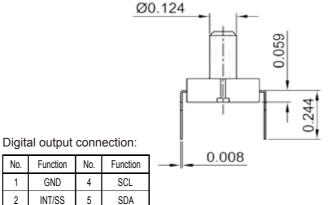


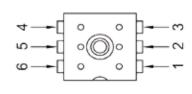
Structure reference (Unit: Inch[mm])











Analog output connection:

<u> </u>				
No.	Function	No.	Function	
1	GND	4	VDD	
2	*TEST PIN	5	SO	
3	GND	6	VDD	

TEST*

Function

GND

INT/SS

2

No.

4

5

^{*} Pin 6 not recommend to connect to any electrical circuit.

^{*} Pin 2 not recommend to connect to any electrical circuit.