

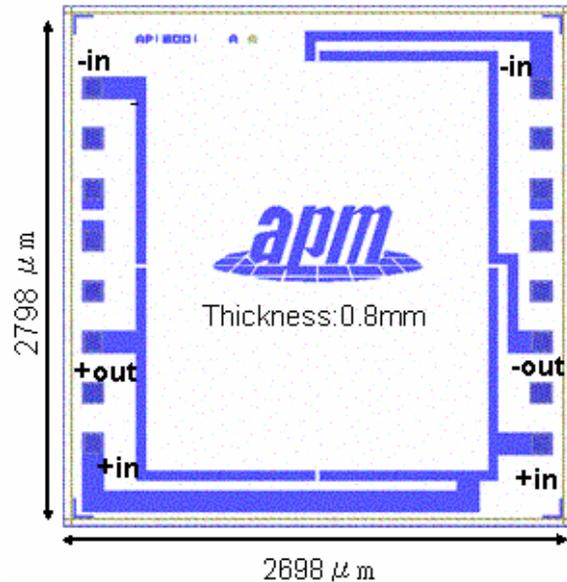
ALP100G(1psi)/ ALP070G(0.7psi)/ALP050G(0.5psi)/ALP030G(0.3psi) Low Pressure Gauge Pressure Sensor----- (Preliminary)

DESCRIPTION

The ALP low pressure gauge sensor features a low TCS silicon solid-state sensor. Low TCS ALP pressure sensor is ideal for applications requiring low TCS, high reliability and stability. ALP low pressure gauge sensor has temperature coefficient of span smaller than ± 0.065 (%Span/ $^{\circ}\text{C}$) in constant current operation mode (1.5 mA) from 5°C to 45°C . The ALP low pressure sensor is designed to be adjustable for Zero Offset.

With constant voltage excitation or constant current excitation, the ALP low pressure sensor produces a voltage output that is linearly proportional to the input pressure. The user can add on external signal conditioning circuitry to amplify the output signal and maximize its performance. The ALP low pressure sensor is compatible with most noncorrosive gases and dry air.

This pressure sensor is intended for high volume applications where cost is a critical factor. It is designed to be mounted on ceramic or PC board substrates by OEM manufacturers.

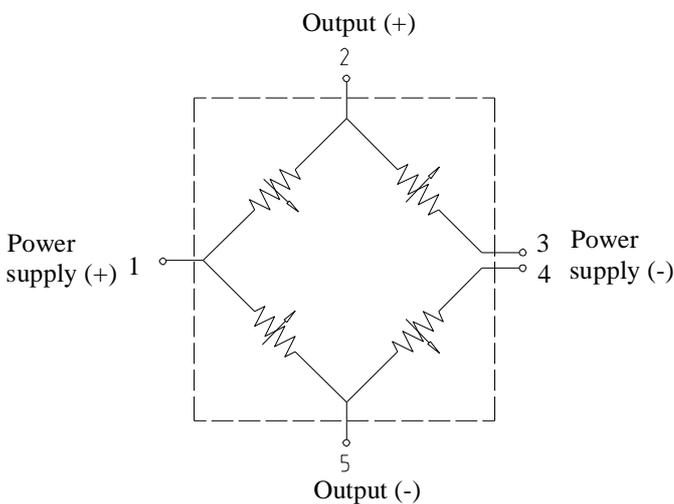


FEATURES

- .. Competitive price
- .. TCS $< \pm 0.065$ (%Span/ $^{\circ}\text{C}$) under constant current mode, $5^{\circ}\text{C} \sim 45^{\circ}\text{C}$
- .. Adjustable Zero Offset

APPLICATIONS

- .. Air flow monitors
- .. Ventilation
- .. Respirators
- .. Process control
- .. Medical equipment



ALP Low Pressure Sensor Specifications

Parameter	Value				Units	Notes
General						
Type	ALP100	ALP070	ALP050	ALP030		
Pressure Range	1	0.7	0.5	0.3	Psi	gauge pressure
Maximum Overpressure	5				Psi	burst pressure
Electrical @25°C (77°F) unless otherwise specified						
Excitation	5				V	
Input Impedance	2.7~3.9				kΩ	
Output Impedance	2.7~3.9				kΩ	
Environmental						
Operating Temperature Range	-20~100(no freezing or condensation)				°C	
Storage Temperature Range	-40~+125(no freezing or condensation)				°C	-40 °F ~+257 °F
Mechanical						
Media Compatibility	Clean, dry air & noncorrosive gases					
Performance⁽¹⁾						
Zero Offset	-30~+70(dip package)				mV	2
Span	50±25	50±25	50±25	50±25	mV	
Bridge Resistance	2.7~3.9				KΩ	
Linearity	±0.5				% Span	3
Temperature Coefficient of Zero Offset	-0.13~+0.13				% Span/°C	4
Temperature Coefficient of Span	-0.1~-0.3				%Span/°C	4
Notes: 1. All values are Minimum/Maximum and are measured at 5V and 25°C unless otherwise specified. 2. -50~+50 mV for Die. 3. Best fit straight line. 4. Measured from 5~70 °C.						

HOW TO ORDER

Part Number:	Description:	Part Number:	Description:
ALP1000H7300-B	1 Psig Die	ALP0500H7300-B	0.5 Psig Die
ALP100TH7300-F	1 Psig DIP	ALP050TH7300-F	0.5 Psig DIP
ALP0700H7300-B	0.7 Psig Die	ALP0300H7300-B	0.3 Psig Die
ALP070TH7300-F	0.7 Psig DIP	ALP030TH7300-F	0.3 Psig DIP

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