

# Low TCS ATPL15G

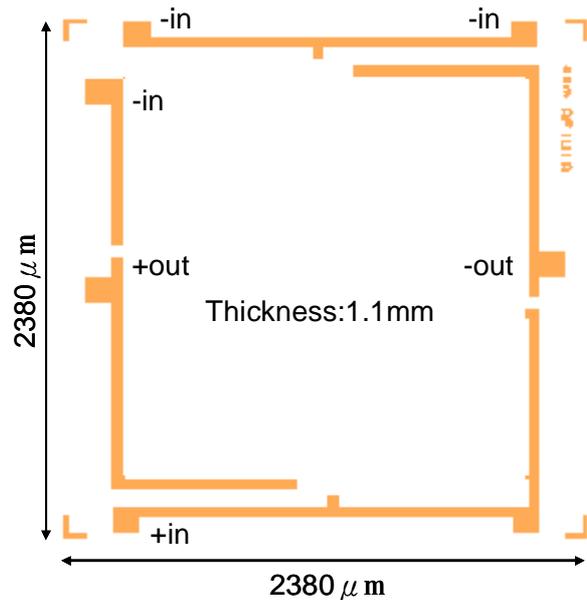
## Gauge Pressure Sensor

### DESCRIPTION

The ATPL15G pressure sensor features a low TCS silicon solid-state sensor. Low TCS ATPL15G pressure sensor is ideal for applications requiring low TCS, high reliability and stability. Low TCS ATPL15G has temperature coefficient of span smaller than  $\pm 0.065$  (%Span/ °C) in constant current operation mode (1.5 mA) from 0°C to 50°C.

With constant voltage excitation or constant current excitation, the low TCS ATPL15G 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 low TCS ATPL15G 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, such as consumer tire pressure gauges or disposable pressure monitors. It is designed to be mounted on ceramic or PC board substrates by OEM manufacturers.



### FEATURES

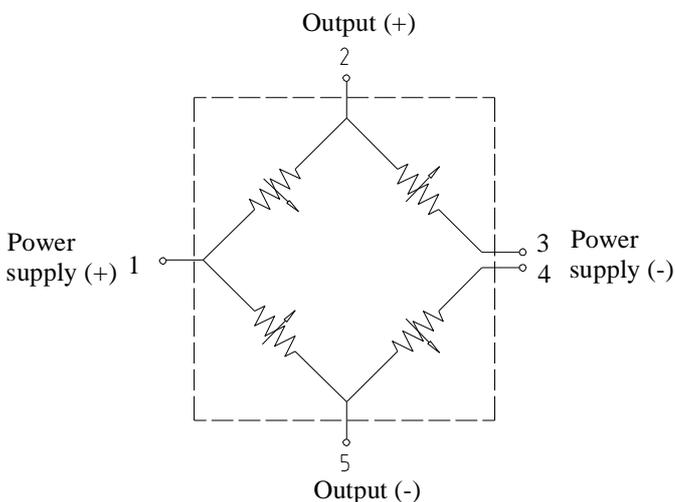
- .. TCS  $\leq \pm 0.065$  (%Span/ °C) under constant current mode ,0°C ~50°C
- .. Competitive price
- .. Wide operating temperature range: -20°C to +100°C

### APPLICATIONS

- .. Altitude Measurement
- .. Barometric Pressure
- .. Digital Pressure Gauges
- .. Consumer & Sports
- .. Pressure Switches and Controllers

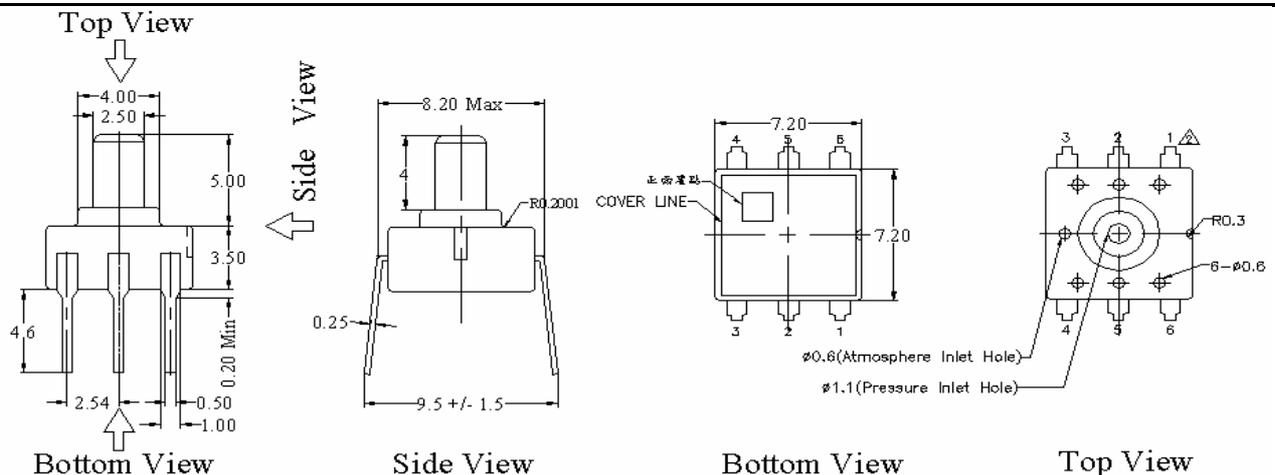
### HOW TO ORDER

Part Number:	Description:
ATPL150H7300-B	Low LCS 15 Psig, Die
ATPL15TH7300-F	Low LCS 15 Psig, DIP



# Low TCS ATPL15G Specifications

Parameter	Value	Units	Notes
<b>General</b>			
Pressure Range	15	Psi	gauge pressure
Maximum Overpressure	2X		rated pressure
<b>Electrical @25°C (77°F) unless otherwise specified</b>			
Excitation	1.5      3	mA      VDC	
Input Impedance	2.7~3.9	kΩ	
Output Impedance	2.7~3.9	kΩ	
<b>Environmental</b>			
Operating Temperature Range	0~50      -20~+100	°C	
Storage Temperature Range	-40~+125	°C	-40 °F ~+257 °F
<b>Mechanical</b>			
Media Compatibility	Clean, dry air & noncorrosive gases		
<b>Performance<sup>(1)</sup></b>			
Zero Offset	±30	mV	
Span	110±30      65±20	mV	
Bridge Resistance	2.7~3.9	kΩ	
Linearity	±0.3	% Span	2
Hysteresis	±0.5	% Span	
Temperature Coefficient of Zero Offset	±0.5	% Span/°C	3
Temperature Coefficient of Span	±0.065      -0.1~ -0.3	%Span/°C	3
Notes: 1. All values are Minimum/Maximum and are measured at 1.5mA and 25°C unless otherwise specified. 2. Best fit straight line. 3. Between -20 °C and 100°C. Temperature coefficients are typical values.			



**Asia Pacific Microsystems, Inc.**

No. 2, R&D Road VI, Science-Based Industrial Park, Hsinchu Taiwan, R.O.C.  
Tel: 886-3-6661188 Fax : 886-3-6661199 <http://www.apmsinc.com>

