

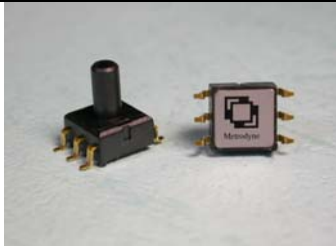
MPS-3110 series Pressure Sensor

■ Features

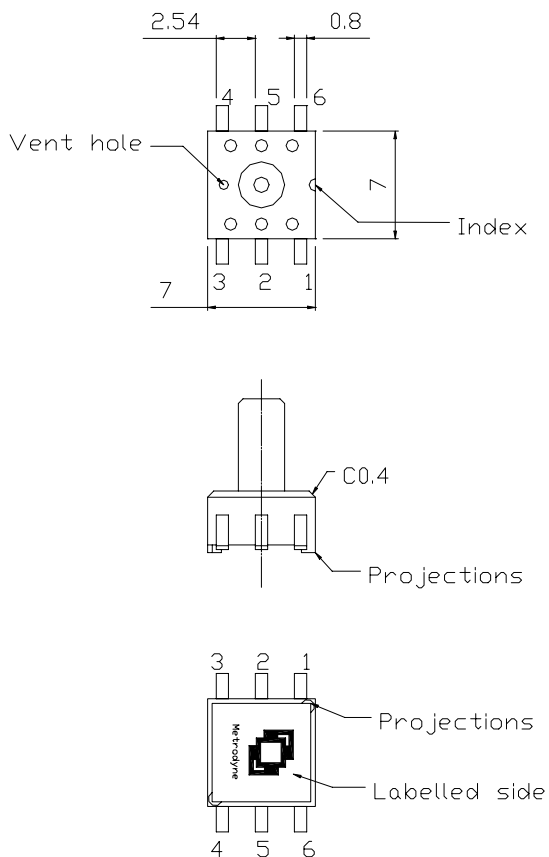
- Competitive price SMD package
- Wide operating temperature range:- 40 to +85°C
- Solid-state reliability
- Easy to Use
- Easily Embedded in OEM Equipment
- Gauge pressure type (5.8 、 15 PSI)

■ Applications

- Digital blood pressure meter
- Digital pressure gauges
- Environmental monitoring
- Consumer & sports
- Medical instrumentation & monitoring
- Disposable blood pressure sensor

Pressure type	Gauge
	MPS-3110 series
Model	

■ Outline dimensions

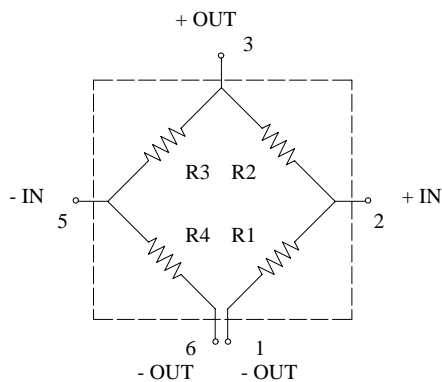


Unit: mm

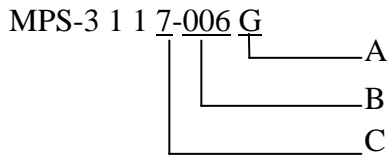
■ Specifications

Parameter	Min	Typ	Max	Units	Notes
General					
Pressure Range	5.8 · 15			PSIG	40 KPaG
Maximum Overpressure			2X		Rated pressure
Operating Temperature Range	-40		85	°C	-40 °F ~+185°F
Storage Temperature Range	-40		125	°C	-40 °F ~+257 °F
Operating humidity	15		85	% RH	No condensation
Media Compatibility	Clean, dry air & noncorrosive gases				
Electrical performance⁽¹⁾					
Excitation voltage		5	15	Vdc	
Excitation current		1.5	3	mA	
Bridge resistance					
3.3kOhm (MPS-3113)	2.7	3.3	3.9	kΩ	
5kOhm (MPS-3117 · MPS-3118)	4	5	6		
Offset Voltage	-25		25	mV	
Full Scale Span Voltage					
5.8 PSI (MPS-3117)	50	75	100	mV	
5.8 PSI (MPS-3113 · MPS-3118)	20	45	75		
15 PSI (MPS-3113 · MPS-3118)	70	100	130		
Linearity	-0.3		0.3	% Span	(2)
Temperature Coefficient of Zero Offset	-0.08		0.08	% Span/°C	(3)
Temperature Coefficient of Span		-0.21 ⁽⁴⁾		%Span/°C	(3)
		-0.005 ⁽⁵⁾			
Temperature Coefficient of Resistance		0.2		%/°C	(3)
Notes :					
1. Unless otherwise specified, measurements were taken with a supply voltage of 5 Vdc at a temperature of 25±3°C and humidity ranging from 25% ~85% .					
2. Best fit straight line.					
3. Between 0°C and 50°C. Temperature coefficients are typical values.					
4. Measured only with constant voltage excitation (5V) .					
5. Measured only with constant current excitation (1.5mA) .					
Metrodyne Microsystem Corp. reserves the right to make changes to the product specification in this publication.					

■ Terminal connection diagram



■ **Ordering information**



A	Pressure type	B	Pressure range
G	Gauge	006	5.8 PSI
A	Absolute	015	15 PSI
C			
3	3.3kOhm Temp. compensation		
7	High sensitivity Temp. compensation		
8	Low sensitivity Temp. compensation		

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