

Microstructure Pressure Sensors

26PC SMT (1 psi, 5 psi, 15 psi)

26PC SMT Series

26PC SMT PERFORMANCE CHARACTERISTICS (AT 10 VDC ± 0.01 VDC EXCITATION, 25 °C)

	Min.	Typ.	Max.	Units
Excitation Voltage	—	10.0	16.0	Vdc
Response Time	—	—	1.0	ms
Input Resistance	5.5 k	7.5 k	11.5 k	Ohm
Output Resistance	1.5 k	2.5 k	3.0 k	Ohm
Span P2>P1⁽¹⁾	Min.	Typ.	Max.	
0 to 1	14.7	16.7	18.7	mV
0 to 5	47	50	53	mV
0 to 15	96	100	104	mV
Null Offset	Min.	Typ.	Max.	
0 to 1	-2.0	0	+2.0	mV
0 to 5	-2.0	0	+2.0	mV
0 to 15	-2.0	0	+2.0	mV
Linearity (BFSL P2>P1)		Typ.	Max.	
0 to 1	—	± 0.50	± 1.75	% span
0 to 5	—	± 0.50	± 1.5	% span
0 to 15	—	± 0.50	± 1.0	% span
Null Shift 25 °C to 0 °C, 25 °C to 50 °C⁽²⁾		Typ.	Max.	
0 to 1	—	—	± 1.0	mV
0 to 5	—	—	± 1.0	mV
0 to 15	—	—	± 1.0	mV
Span Shift 25 °C to 0 °C, 25 °C to 50 °C⁽²⁾		Typ.	Max.	
0 to 1	—	± 1.5	± 4.5	% span
0 to 5	—	± 1.0	± 1.7	% span
0 to 15	—	± 0.75	± 1.5	% span
Repeatability and Hysteresis		Typ.	Max.	
0 to 1	—	± 0.2	—	% span
0 to 5	—	± 0.2	—	% span
0 to 15	—	± 0.2	—	% span
Overpressure P2>P1; P1>P2		Typ.	Max.	
0 to 1	—	—	20	psi
0 to 5	—	—	20	psi
0 to 15	—	—	45	psi

Notes:

- Span is the algebraic difference between output at maximum rated operating pressures and output at 0 psi.
- Temperature error is calculated with respect to 25 °C.

SPECIFICATIONS

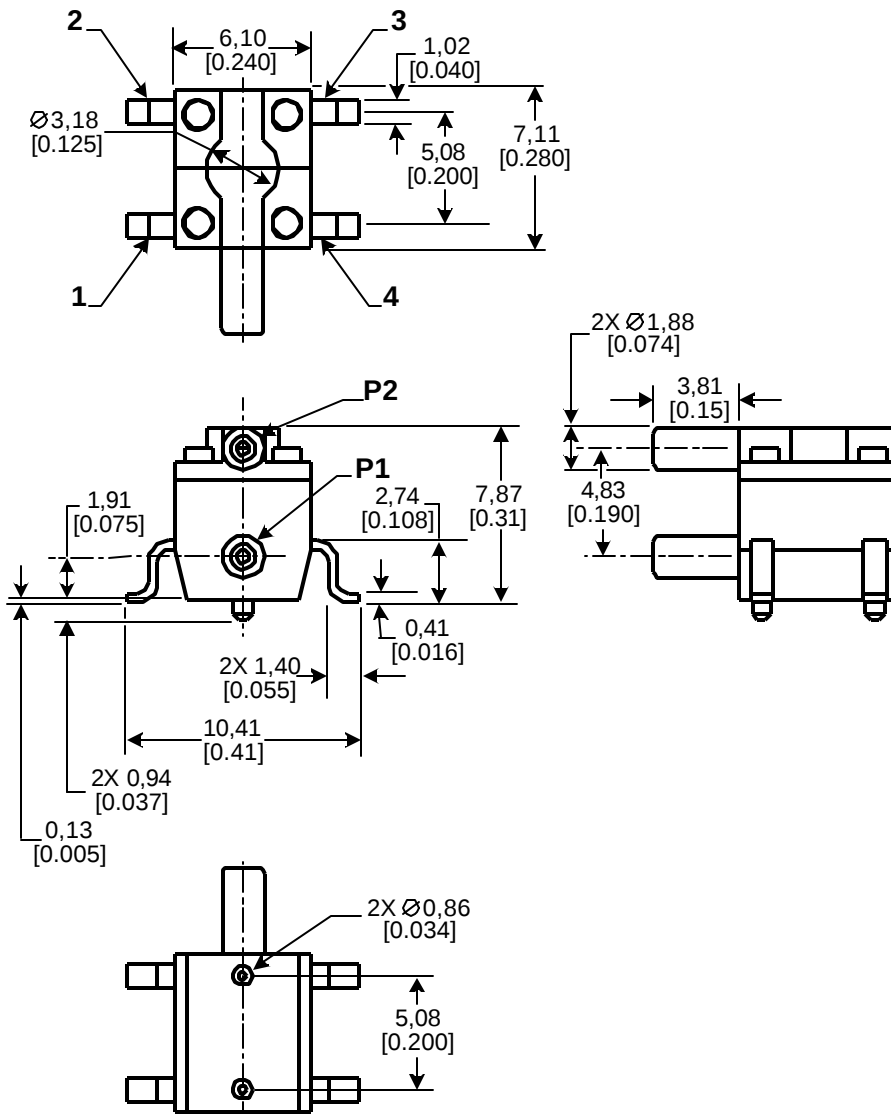
Characteristic	Description
Storage Temperature	-55 °C to 100 °C [-67 °F to 212 °F]
Operating Temperature	-40 °C to 85 °C [-40 °F to 185 °F]
Compensated Temperature	0 °C to 50 °C [32 °F to 122 °F]
Alignment Pins	0,86 mm [0.034 in] diameter pins extend through PCB
Port Diameter	1,88 mm [0.074 in] diameter uses standard 0,59 mm [0.0625 in] ID tubing
Port Orientation	Parallel to PCB (low profile on board)
Pick Up Feature	3,18 mm [0.125 in] feature on port cover
SMT Solder	- Sn 96.5 Ag 3.5 No Clean Flux - Sn 63 Pb 37 No Clean Flux
SMT Reflow Profile	Max peak temperature of 260 °C [500 °F] for 10 seconds
Media Compatibility	Both ports are limited to media that are compatible with polyphthalamide, fluorosilicone and silicon.
Shock	Qualification tested to 150 g
Vibration	MIL-STD-202. Method 213 (150 g half sine 11 ms)
Weight	0.5 grams [0.0176 oz]

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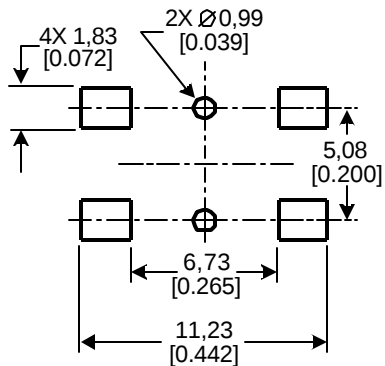
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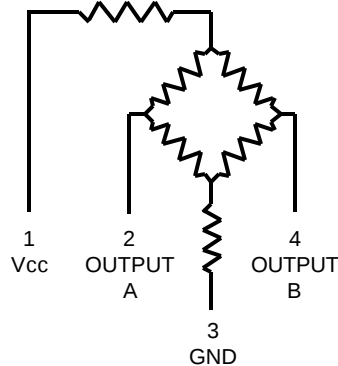
MOUNTING DIMENSIONS mm[in] (for reference only)



SUGGESTED LAND PATTERN



CIRCUIT DIAGRAM



OUTPUT VOLTAGE

Output A increases as P2 pressure increases.

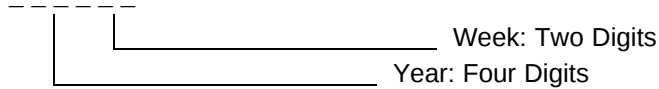
Output B decreases as P2 pressure increases.

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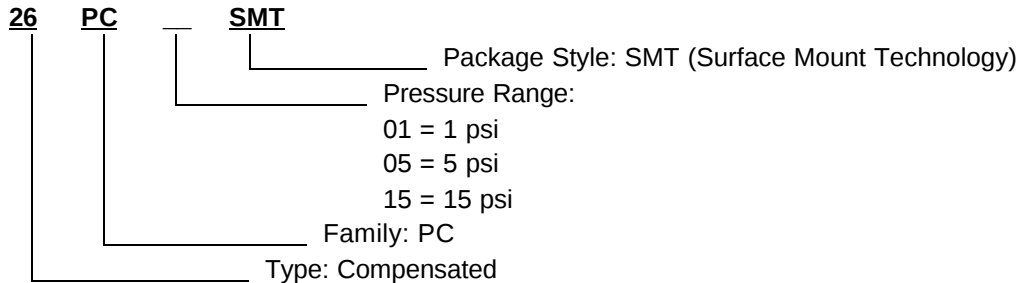
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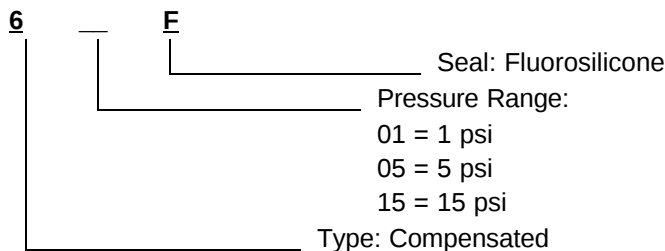
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CATALOG LISTING NOMENCLATURE



BRANDING SCHEME



TECHNICAL NOTES

Technical Notes that provide further application information on the 26PC SMT are available on the Honeywell web site at: <http://www.honeywell.com/sensing/prodinfo/pressure/20pc>

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