



Features

- Surface mount
- Gauge pressure
- Improved linearity
- Dual horizontal port
- RoHS compliant*

Applications

- Medical equipment**
(low to medium risk)
- White goods
- Industrial P/I
- Process control

BPS160 Series – 10 mm Analog Pressure Sensor

Electrical Characteristics

Supply Voltage (V_s) 4.75 V minimum, 5 V typical, 5.25 V maximum
 Supply Current @ 5 V 3.2 mA maximum

Performance Characteristics

Operating Temperature -20 °C to +100 °C (-4 °F to +212 °F)
 Storage Temperature -40 °C to +125 °C (-40 °F to +257 °F)
 Output Analog
 DAC Resolution 13 bit
 Accuracy at 20 °C to 40 °C $\pm 1.8\%$ FS
 Total Error Band $\pm 2.5\%$ FS
 Lifetime Drift $\pm 0.5\%$ FS
 Startup Time 2.3 mS max.
 Sampling Range 6.5 kHz
 Soldering Profile 260 °C, 10 sec.
 Solder Reflow J-STD-020 MSL3

Product Characteristics

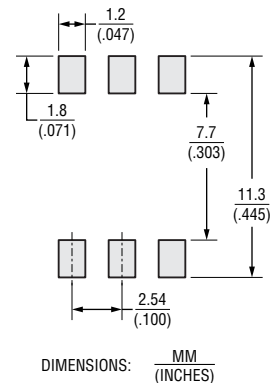
Media Compatibility Harsh media (air and gas)
 Moisture Sensitivity Level 3
 ESD Classification (HBM) 2 kV
 Marking Partial model number, media compatibility, pressure type, pressure rating, lot code
 Standard Packaging 600 pcs. / 13-inch reel
 Weight 0.303 grams (0.0106 oz)

Additional Information

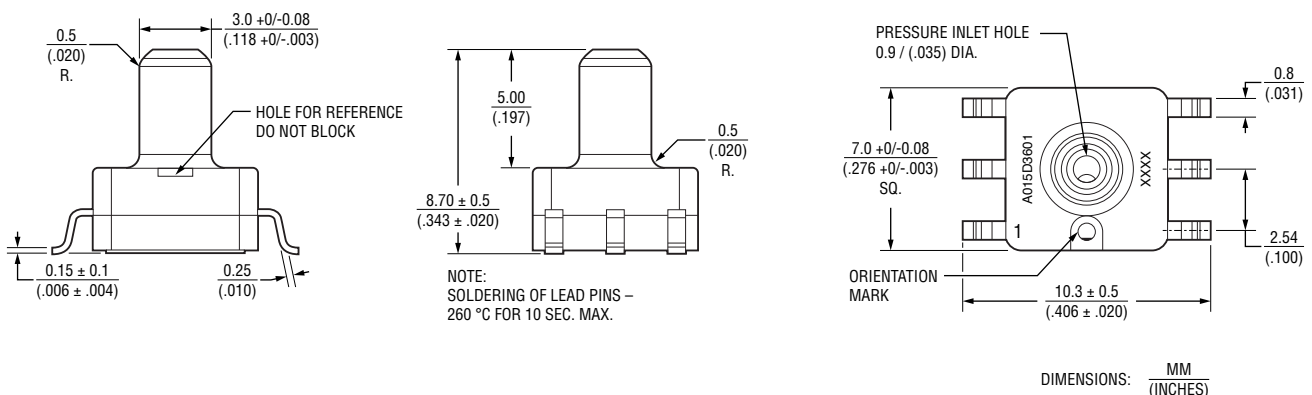
Click these links for more information:



Recommended Layout



Product Dimensions



**WARNING Cancer
and Reproductive Harm**
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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Users should verify actual device performance in their specific applications.

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BPS160 Series – 10 mm Analog Pressure Sensor

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How to Order

BPS160 - A G 001B - 2 D G

Model Series _____
 10 mm Analog Pressure Sensor

Media Compatibility _____
 A = Air/Gas

Reference _____
 G = Gauge
 N = Negative (14.5 psi only)
 P = Dual Polarity (14.5 psi only)

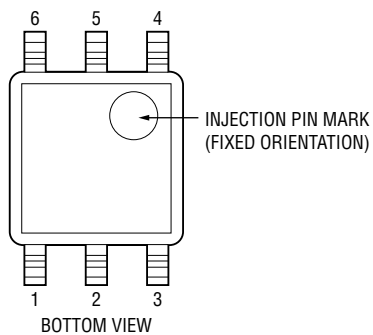
Pressure _____
 001B = 14.5 psi 007B = 101.5 psi
 002B = 29 psi 010B = 145 psi

Terminal Pins _____
 2 = Surface Mount Terminals

Port _____
 D = Single Vertical Port

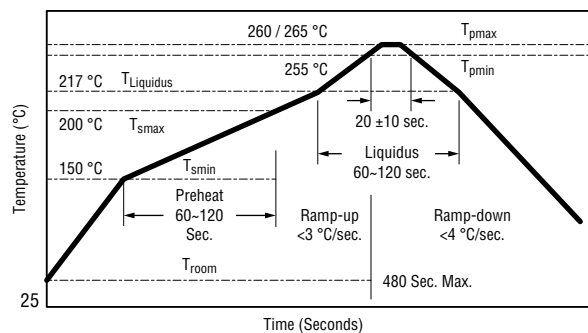
Packaging Designator _____
 G = 600 pcs. per 13-inch reel (standard)
 H = 100 pcs. per 7-inch reel

Pin Information



Pin #	Description
1	N.C.
2	N.C.
3	N.C.
4	V _{dd}
5	V _{SS}
6	OUT

Solder Reflow Recommendations



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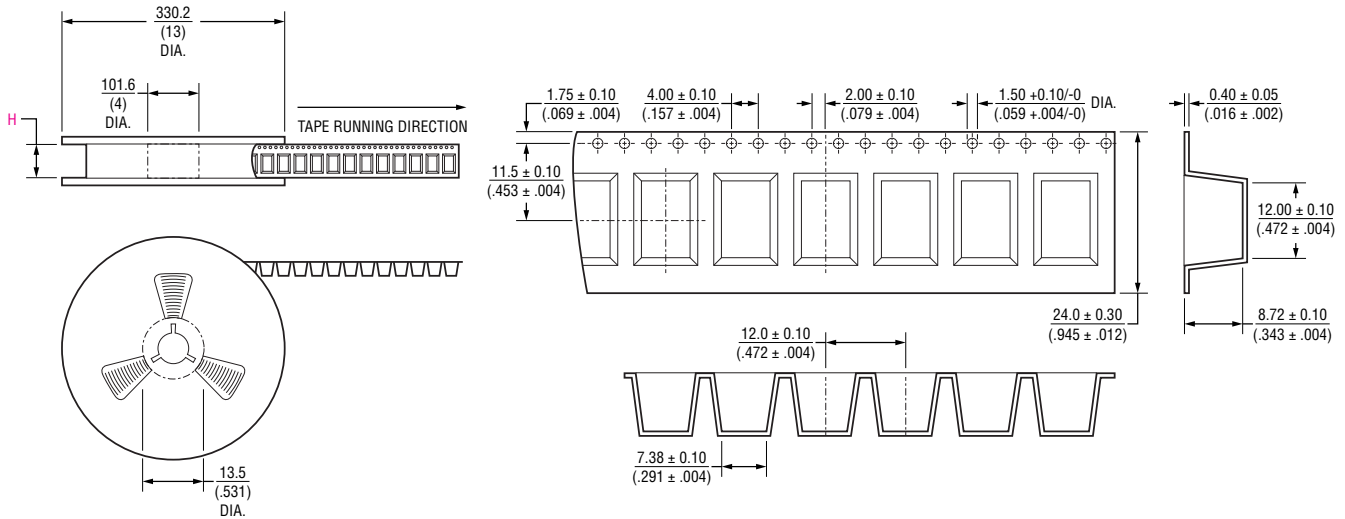
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BPS160 Series – 10 mm Analog Pressure Sensor

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Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

BOURNS®

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REV. 03/25

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