

# **Features**

- Compensated output
- Direct-media monitoring
- Gauge and absolute types
- Isolated onboard electronics
- Gold-plated Kovar<sup>™</sup> port option
- RoHS compliant\*

# **Applications**

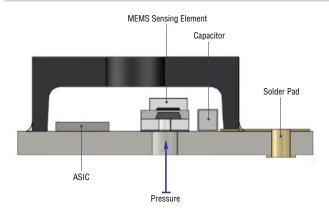
# Industrial:

- Refrigerant systems
- Water level & pressure monitoring
- \*\*Medical Devices (low/medium risk):
- Diagnostic/analysis equipment
- \*\*\*Heavy Equipment:
- Oil & fuel systems
- Exhaust gas pressure sensing

# **BPS130 Series - 10 mm Analog High Pressure Sensor**

Electrical Characteristics	
Supply Voltage (V <sub>s</sub> )	
	10 mA
	2.5 mA
	±25 mA
Overvoitage Protection	
Performance Characteristics	
Operating Temperature	-40 °C to +150 °C (-40 °F to +302 °F)
	-55 °C to +150 °C (-67 °C to +302 °F)
	±0.25 % FS
	F)
	±0.5 % FS
Lifetime Diff	10.5 /610
Product Characteristics	
Media Compatibility	Harsh media (air, liquid and gas)
Moisture Sensitivity Level	1
	>4 kV
	Partial model number, media compatibility, pressure type, pressure rating, lot code
3 3	
Weight	

#### **Cross Section**



"Wetted" Materials:

Silicon, glass, Au/Sn, ceramic (Ported version also contains Au and solder) Any material in contact with the media is considered a "wetted" material.

# **BOURNS**®

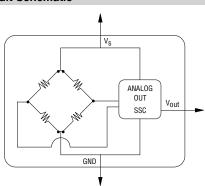
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#### **Basic Circuit Schematic**



Note: Power supply decoupling and output filtering included. Consult factory for custom options such as supply voltage, temperature calibration range, output range accuracy specification, and update rate.

\* RoHS3 Directive 2015/863 Amendments of Annex II on March 31, 2015

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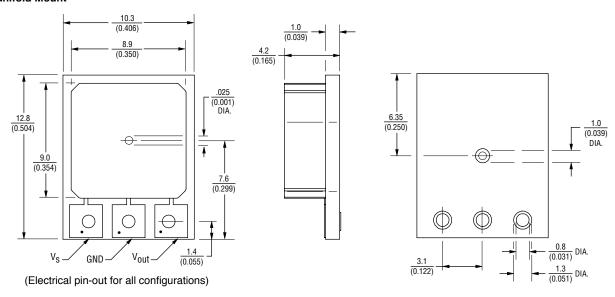
\*\*\* Custom engineered solutions. Check with factory for availability.
\*\*\*\* 5 V input voltage.

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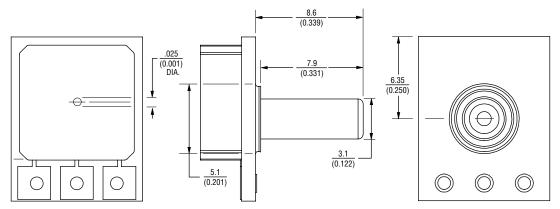
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# **Product Dimensions**

#### **Manifold Mount**



# Single Port

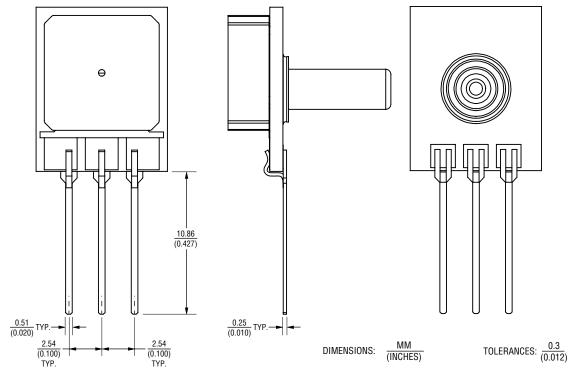


 $\mathsf{MM}$ DIMENSIONS: (INCHES)

TOLERANCES:  $\frac{0.3}{(0.012)}$ 

# **Product Dimensions (Continued)**

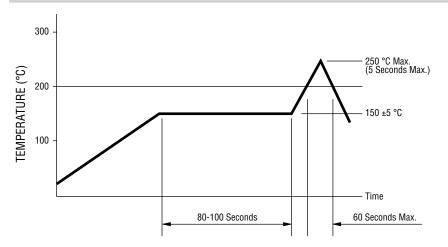
#### **Single Port and Pins**



# **How To Order** BPS130 - H G 015P - 1 M G Model Series Analog Media Compatibility H = Certain Harsh Media Pressure Type A = Absolute G = Gauge Pressure (psi) 015P = 15 030P = 30 100P = 100 300P = 300 500P = 500Terminal Pins 1 = No Terminal Pins 3 = Vertical Terminal Pins (Tray Packaging only) Port Style -M = Manifold Mount S = Single Port Packaging Designator G = 250 pcs. per 13-inch Reel

Blank = 100 pcs. per Tray

# **Solder Profile**



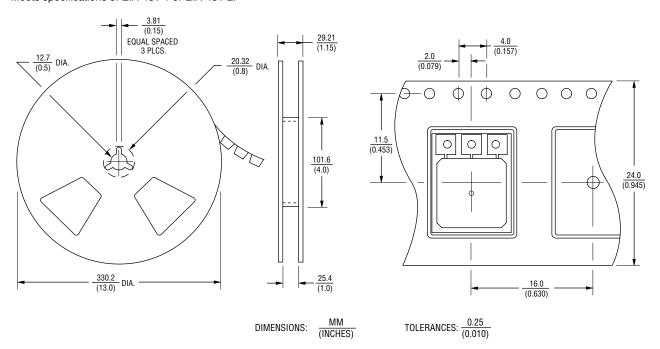
Processing Method: Reflow soldering with infrared heat or forced air convection (only once).

#### Notes:

- 1. No clean solder paste is recommended.
- 2. Aqueous wash is not recommended.
- Use of water soluble soldering flux should be avoided due to possible corrosion.
- 4. Multiple passes through the soldering process is not recommended.
- 5. Other SMD processes and profiles should be verified by the customer.

#### **Packaging Specification**

250 pieces per 13-inch reel. Meets specifications of EIA-481-1 or EIA-481-2.



REV. 04/19

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