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Features

- Compensated output
- Certain harsh media monitoring
- Absolute and gauge types
- Isolated onboard electronics
- Ceramic port
- RoHS compliant*

Applications

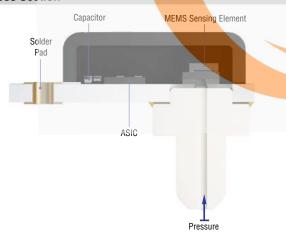
Industrial:

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

BPS140 Series - 10 mm Analog High Pressure Sensor for Certain Harsh Media

Electrical Characteristics Short Circuit Current ±25 mA **Performance Characteristics** Operating Temperature......-40 °C to +150 °C (-40 °F to +302 °F) Burst Pressure 3X full scale PSIA **Product Characteristics**

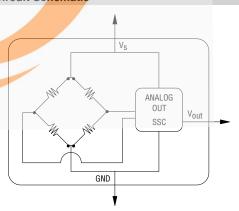
Cross Section



"Wetted" Materials: Silicon, glass, ceramic

Any material in contact with the media is considered a "wetted" material.

Basic Circuit Schematic



Note: Power supply decoupling and output filtering included.

Consult factory for custom options such as supply voltage, temperature calibration range, and output range accuracy specification.

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

** Bourns® products have not been designed for and are not intended for use in
"lifesaving," "life-critical" or "life-sustaining" applications nor any other applications
where failure or malfunction of the Bourns® product may result in personal injury or
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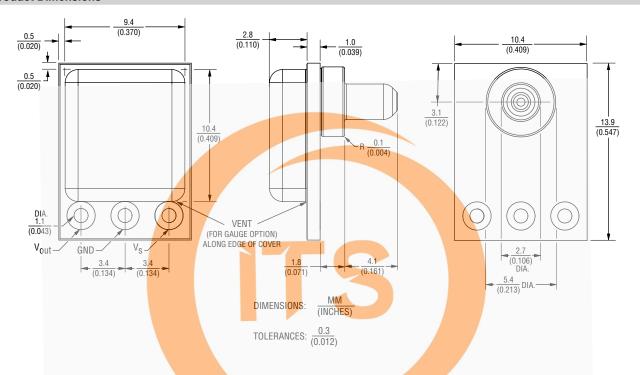
see Legal Disclaimer Notice on the last page of this document, and at <u>www.bourns.com/docs/legal/disclaimer.pdf.</u> *** Custom engineered solutions. Check with factory for availability.

**** 5 V input voltage.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

Product Dimensions

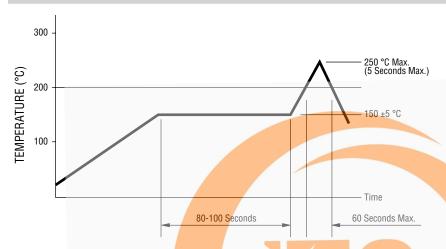


How To Order BPS140 - H A 015P - 1 S G Model Series Analog Media Compatibility H = Certain Harsh Media Pressure Type A = Absolute G = Gauge Pressure (psi) 015P = 15 100P = 100 030P = 30300P = 300Terminal Pins 1 = No Terminal Pins Port Style -S = Single Port

Packaging Designator
G = 250 pcs. per 13-inch Reel



Solder Profile



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

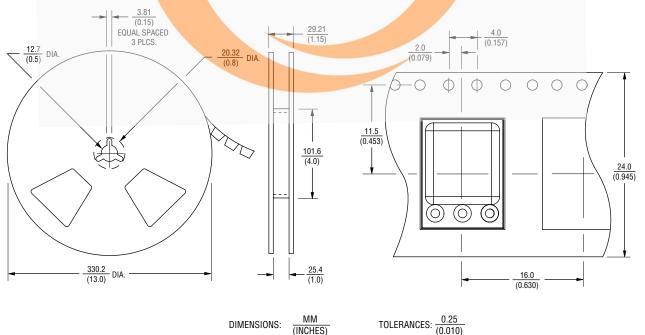
Notes:

- 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.
- Multiple passes through the soldering process is not recommended.
- 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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