Performance Characteristics for BLV Series

All parameters are measured at 1.8 volt excitation and room temperature unless otherwise specified. Pressure measurements are with positive pressure applied to PORT B (the only port for the single port configuration).

Parameter	Min	Typ	Max	Units	Notes
Output Span					
L01D @ 1 inH2O	4.5	8.0	11.5	mV	4
L05D @ 5 inH2O	13.5	24.0	34.5	mV	4
L10D @ 10 inH2O	18.0	32.0	46.0	mV	4
L20D @ 20 inH2O	22.0	38.0	55.0	mV	4
L30D @ 30 inH2O	25.0	42.0	60.0	mV	4
Offset Voltage @ Zero Diff. Pressure	-	-	±10	mV	-
Offset Temperature Shift (0°C-70°C)	-	-25.0	-	uV/°C	1
Offset Warm-up Shift	-	±20.0	±100	uV	2
Offset Position Sensitivity (1g)	-	±20.0	-	uV	-
Offset Long Term Drift (One Year)	-	±120	-	uV	-
Linearity, Hysteresis Error	-	0.10	±0.30	%FSS	3
Response Time (10% to 90% Pressure Response)	-	100	-	uS	-
Front to Back Linearity	-	0.25	-	%FSS	5
Temperature Effect on Resistance (0°C-70°C)	-	2800	-	ppm/°C	-
Temperature Effect on Span (0°C-70°C)	-	-1900	-	ppm/°C	-
Input Resistance	-	3.0	-	k ohm	-
Output Resistance	-	3.0	-	k ohm	-

Specification Notes

NOTE 1: Shift is relative to 25°C.

NOTE 2: Shift is within the first hour of excitation applied to the device.

NOTE 3: Measured at one-half full scale rated pressure using best straight line curve fit.

NOTE 4: The span is the algebraic difference between full scale output voltage and the offset voltage.

NOTE 5: Front-Back Linerity computed as: $\text{Lin}_{FB} = \left(\left| \frac{\text{Span}_{Front}}{\text{Span}_{Back}} \right| - 1 \right) \cdot 100\%$

How To Order

BLV-[ ]-[ ]-[ ]

Series

Pressure Range

Option	Description
L01D	1 inH2O
L05D	5 inH2O
L10D	10 inH2O
L20D	20 inH2O
L30D	30 inH2O

Package

Option	Description
B1NS	Two Ports Same Direction
B2NS	Two Ports Opposite Direction
BGNS	One Port

Coating

Option	Description
N	No Coating
P	Parylene Coating

(Consult with factory for parylene coating)

Example: BLV-L10D-B1NS-N

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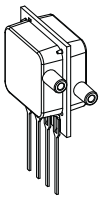
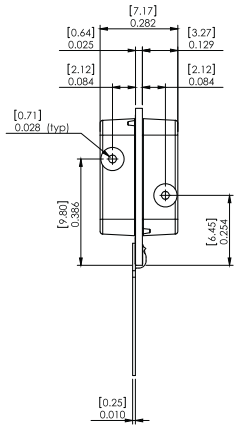
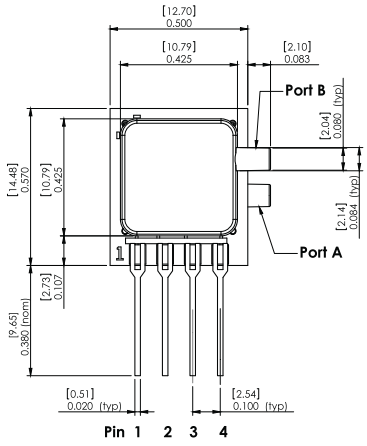
Package Drawings

B1NS Package



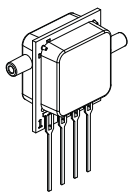


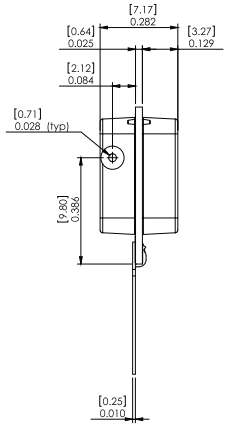


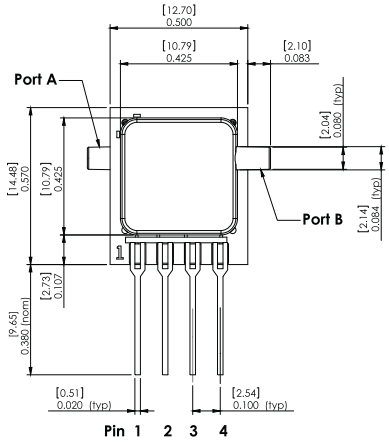
Pinout
1) Gnd
2) -Out
3) Vs
4) +Out

NOTES
1) Dimensions are in inches [mm]
2) For suggested pad layout, see drawing: PAD-01

B2NS Package



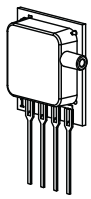


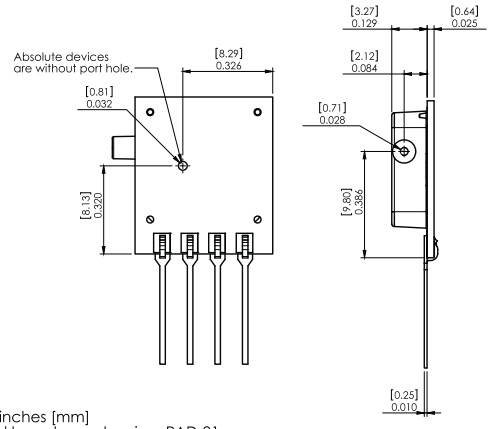


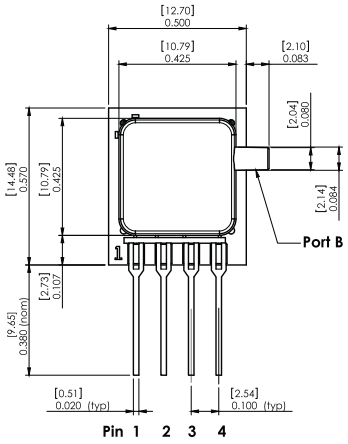
Pinout
1) Gnd
2) -Out
3) Vs
4) +Out

NOTES
1) Dimensions are in inches [mm]
2) For suggested pad layout, see drawing: PAD-01

BGNS Package







Pinout
1) Gnd
2) -Out
3) Vs
4) +Out

NOTES
1) Dimensions are in inches [mm]
2) For suggested pad layout, see drawing: PAD-01

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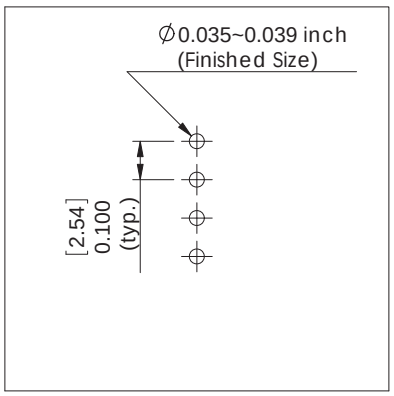
Suggested Pad Layout

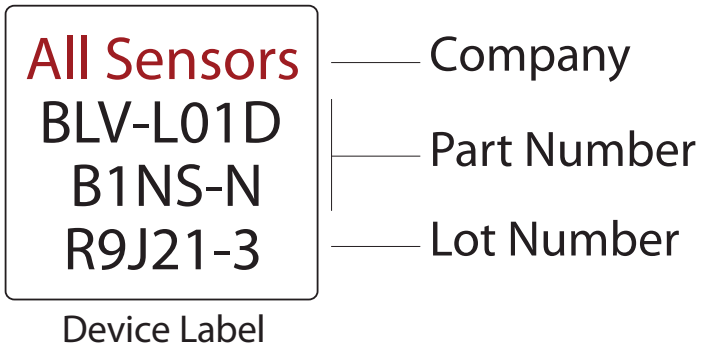


PAD-01

Package Characteristics

Package ID	Approximate Port Volume Port A	Port B	Units	Weight	Units
B1NS	181	176	mm^3	1.2	Grams
B2NS	181	176	mm^3	1.2	Grams
BGNS	1.5	176	mm^3	0.9	Grams

Product Labeling



Device Label

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