

# MLV Series Low Voltage Pressure Sensors



## Features

- 1 to 30 inH<sub>2</sub>O & 5 to 150 PSI Pressure Ranges
- 5V Operation
- High Output
- Low Power Consumption
- Excellent Position Sensitivity
- Low Warm-Up Shift
- Enhanced Front to Back Linearity
- Protective Parylene Coating Option

## Applications

- Medical Breathing
- Environmental Controls
- HVAC
- Industrial Controls
- Portable/Hand-Held Equipment

## General Description

The MLV Series Compensated Sensor is based on All Sensors' CoBeam<sup>2</sup>™ Technology. The device provides a high output signal at a low operating voltage while maintaining comparable output levels to traditional equivalent compensated millivolt sensors operating at higher voltages. This lower supply voltage gives rise to improved warm-up shift while the CoBeam<sup>2</sup> Technology itself reduces package stress susceptibility resulting in improved overall long term stability. The technology also vastly improves position sensitivity compared to conventional single die devices.

These calibrated and compensated sensors give an accurate and stable output over a wide temperature range. This series is intended for use with non-corrosive, non-ionic working fluids such as air, dry gases and the like. A protective parylene coating is optionally available for moisture/harsh media protection. The output is also ratiometric to the supply voltage and designed to operate at 5.0 volts DC.

| Standard Pressure Ranges |                        |                        |                        |              | Equivalent Circuit |
|--------------------------|------------------------|------------------------|------------------------|--------------|--------------------|
| Device                   | Operating Range        | Proof Pressure         | Burst Pressure         | Nominal Span |                    |
| MLV-L01D                 | ±1 inH <sub>2</sub> O  | 100 inH <sub>2</sub> O | 300 inH <sub>2</sub> O | 7 mV         |                    |
| MLV-L02D                 | ±2 inH <sub>2</sub> O  | 100 inH <sub>2</sub> O | 300 inH <sub>2</sub> O | 10 mV        |                    |
| MLV-L05D                 | ±5 inH <sub>2</sub> O  | 200 inH <sub>2</sub> O | 300 inH <sub>2</sub> O | 15 mV        |                    |
| MLV-L10D                 | ±10 inH <sub>2</sub> O | 200 inH <sub>2</sub> O | 300 inH <sub>2</sub> O | 20 mV        |                    |
| MLV-L20D                 | ±20 inH <sub>2</sub> O | 200 inH <sub>2</sub> O | 500 inH <sub>2</sub> O | 20 mV        |                    |
| MLV-L30D                 | ±30 inH <sub>2</sub> O | 200 inH <sub>2</sub> O | 800 inH <sub>2</sub> O | 20 mV        |                    |
| MLV-005D                 | ±5 PSI                 | 10 PSI                 | 30 PSI                 | 25 mV        |                    |
| MLV-015D                 | ±15 PSI                | 60 PSI                 | 120 PSI                | 37.5 mV      |                    |
| MLV-015A                 | 0 - 15 PSIA            | 60 PSI                 | 120 PSI                | 37.5 mV      |                    |
| MLV-030D                 | ±30 PSI                | 90 PSI                 | 150 PSI                | 37.5 mV      |                    |
| MLV-100D                 | ±100 PSI               | 200 PSI                | 250 PSI                | 41.67 mV     |                    |
| MLV-150D                 | ±150 PSI               | 200 PSI                | 250 PSI                | 37.5 mV      |                    |



| Pressure Sensor Maximum Ratings              |         | Environmental Specifications |                                 |
|----------------------------------------------|---------|------------------------------|---------------------------------|
| Supply Voltage (Vs)                          | 12 Vdc  | Temperature Ranges           |                                 |
| Common Mode Pressure                         |         | Compensated                  | 0°C to 50°C                     |
| InH2O Devices (L01, L02, L05, L10, L20, L30) | 10 psig | Operating                    | -25°C to 85 °C                  |
| PSI Devices (005, 015, 030, 100, 150)        | 50 psig | Storage                      | -40°C to 125 °C                 |
| Lead Temperature (soldering 2-4 sec.)        | 270 °C  | Humidity Limits              | 0 to 95% RH<br>(non condensing) |

## Performance Characteristics for MLV Series (InH2O)

ALL PARAMETERS ARE MEASURED AT 5.0 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 PACKAGES).

| Parameter                                    | Min  | Typ  | Max   | Units | Notes |
|----------------------------------------------|------|------|-------|-------|-------|
| Output Span                                  |      |      |       |       |       |
| L01D @ 1 inH2O                               | 6.0  | 7.0  | 8.0   | mV    | 4     |
| L02D @ 2 inH2O                               | 9.0  | 10.0 | 11.0  | mV    | 4     |
| L05D @ 5 inH2O                               | 14.0 | 15.0 | 16.0  | mV    | 4     |
| L10D @ 10 inH2O                              | 19.0 | 20.0 | 21.0  | mV    | 4     |
| L20D @ 20 inH2O                              | 19.0 | 20.0 | 21.0  | mV    | 4     |
| L30D @ 30 inH2O                              | 19.0 | 20.0 | 21.0  | mV    | 4     |
| Span Temperature Shift (0°C to 50°C)         | -    | -    | ±250  | uV    | 1     |
| Offset Voltage @ Zero Diff. Pressure         | -    | -    | ±500  | uV    | -     |
| Offset Temperature Shift (0°C to 50°C)       |      |      |       |       |       |
| L01D, L02D, L05D                             | -    | -    | ±250  | uV    | 1     |
| L10D, L20D, L30D                             | -    | -    | ±200  | uV    | 1     |
| Offset Warm-up Shift                         | -    | -    | ±50.0 | uV    | 2     |
| Offset Position Sensitivity (1g)             |      |      |       |       |       |
| L01D                                         | -    | -    | ±20.0 | uV    | 6     |
| L02D                                         | -    | -    | ±15.0 | uV    | 6     |
| L05D, L10D, L20D, L30D                       | -    | -    | ±10.0 | uV    | 6     |
| Offset Long Term Drift (One Year)            |      |      |       |       |       |
| L01D, L02D, L05D                             | -    | ±150 | -     | uV    | -     |
| L10D, L20D, L30D                             | -    | ±100 | -     | uV    | -     |
| Linearity, Hysteresis Error                  | -    | 0.10 | 0.30  | %FSS  | 3     |
| Response Time (10% to 90% Pressure Response) | -    | 500  | -     | us    | -     |
| Front to Back Linearity                      | -    | 0.75 | -     | %FSS  | 5     |
| Input Resistance                             | -    | 12.0 | -     | k ohm | -     |
| Output Resistance                            | -    | 3.0  | -     | k ohm | -     |

## Performance Characteristics for MLV Series (PSI)

ALL PARAMETERS ARE MEASURED AT 5.0 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 PACKAGES). PRESSURE IS APPLIED TO PORT A FOR ABSOLUTE DEVICES IN A-PACKAGE.

| Parameter                                    | Min   | Typ   | Max   | Units | Notes |
|----------------------------------------------|-------|-------|-------|-------|-------|
| <b>Output Span</b>                           |       |       |       |       |       |
| 005D @ 5 PSI                                 | 24.75 | 25.0  | 25.25 | mV    | 4     |
| 015D @ 15 PSI                                | 37.13 | 37.50 | 37.88 | mV    | 4     |
| 015A @ 15 PSIA                               | 37.13 | 37.50 | 37.88 | mV    | 4     |
| 030D @ 30 PSI                                | 37.13 | 37.50 | 37.88 | mV    | 4     |
| 100D @ 100 PSI                               | 41.25 | 41.67 | 42.08 | mV    | 4     |
| 150D @ 150 PSI                               | 37.08 | 37.50 | 37.92 | mV    | 4     |
| Span Temperature Shift (0°C to 50°C)         | -     | -     | ±1.0  | %FSS  | 1     |
| <b>Offset Voltage @ Zero Diff. Pressure</b>  |       |       |       |       |       |
| 005D @ 5 PSI                                 | -     | -     | 125   | uV    | -     |
| 015D @ 15 PSI                                | -     | -     | 125   | uV    | -     |
| 015A @ 15 PSIA                               | -     | -     | 208   | uV    | -     |
| 030D @ 30 PSI                                | -     | -     | 125   | uV    | -     |
| 100D @ 100 PSI                               | -     | -     | 125   | uV    | -     |
| 150D @ 150 PSI                               | -     | -     | 125   | uV    | -     |
| Offset Warm-Up Shift                         | -     | ±20   |       | uV    | 2     |
| Offset Long Term Drift (one year)            | -     | ±100  | -     | uV    | -     |
| Linearity, Hysteresis Error                  | -     | 0.20  | 0.50  | %FSS  | 3     |
| Response Time (10% to 90% Pressure Response) | -     | 500   | -     | us    | -     |
| Front to Back Linearity                      | -     | 2.5   | -     | %FSS  | 5     |
| Input Resistance                             | -     | 12.0  | -     | 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 LINEARITY COMPUTED AS: 
$$\text{Lin}_{FB} = \left( \frac{\text{Span}_{\text{Front}}}{\text{Span}_{\text{Back}}} - 1 \right) \cdot 100\%$$

NOTE 6: PARAMETER IS CHARACTERIZED AND NOT 100% TESTED.



## How To Order

### A Package

Example: MLV-L02D-A6BBF-N

MLV- -A6   - 

**Pressure Range**

| Option | Description            |
|--------|------------------------|
| L01D   | 1 in H <sub>2</sub> O  |
| L02D   | 2 in H <sub>2</sub> O  |
| L05D   | 5 in H <sub>2</sub> O  |
| L10D   | 10 in H <sub>2</sub> O |
| L20D   | 20 in H <sub>2</sub> O |
| L30D   | 30 in H <sub>2</sub> O |
| 005D   | 5 PSI                  |
| 015D   | 15 PSI                 |
| 015A   | 15 PSIA                |
| 030D   | 30 PSI                 |
| 100D   | 100 PSI                |
| 150D   | 150 PSI                |

**Series**

**Port Cut Configuration**

| Option | Description             |
|--------|-------------------------|
| A      | No Port Cut             |
| B      | Two Ports Cut 0.085"    |
| C      | Two Ports Cut 0.100"    |
| D      | Two Ports Cut 0.150"    |
| E      | One Port (A) Cut 0.080" |
| F      | One Port (A) Cut 0.370" |

**Port Fittings**

| Option | Description               |
|--------|---------------------------|
| A      | No Fittings               |
| B      | Barb Fitting Port A Only  |
| C      | Barb Fitting Port B Only  |
| D      | Barb Fittings Ports A & B |

**Coating**

| Option | Description      |
|--------|------------------|
| N      | No Coating       |
| P      | Parylene Coating |

(See NOTE 1 below)

**Lead Configuration**

| Option | Description        |
|--------|--------------------|
| F      | Flat (Straight)    |
| Q      | Right Angle 0.075" |
| R      | Right Angle 0.100" |
| J      | Jogged Bend        |

### E Package

Example: MLV-L02D-E1ND-N

MLV- -E   - 

**Pressure Range**

| Option | Description            |
|--------|------------------------|
| L01D   | 1 in H <sub>2</sub> O  |
| L02D   | 2 in H <sub>2</sub> O  |
| L05D   | 5 in H <sub>2</sub> O  |
| L10D   | 10 in H <sub>2</sub> O |
| L20D   | 20 in H <sub>2</sub> O |
| L30D   | 30 in H <sub>2</sub> O |
| 005D   | 5 PSI                  |
| 015D   | 15 PSI                 |
| 015A   | 15 PSIA                |
| 030D   | 30 PSI                 |

**Series**

**Port Orientation**

| Option | Description             |
|--------|-------------------------|
| 1      | Dual Port Same Side     |
| 2      | Dual Port Opposite Side |
| G      | Single Port (Gage)      |

**Lid Style**

| Option | Description |
|--------|-------------|
| N      | Non-Barbed  |
| B      | Barbed      |

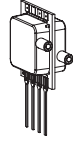
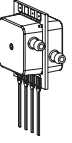
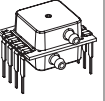
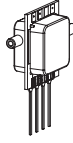
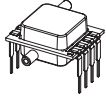
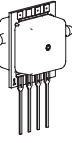
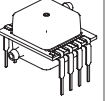
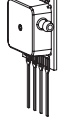
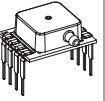
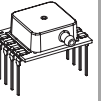
**Coating**

| Option | Description      |
|--------|------------------|
| N      | No Coating       |
| P      | Parylene Coating |

**Lead Type**

| Option | Description     |
|--------|-----------------|
| S      | SIP             |
| D      | DIP             |
| J      | J-Lead SMT      |
| L      | Low Profile DIP |

TABLE 1: Available E-Series Package Configurations

| Port Orientation        | Non-Barbed Lid Lead Style                                                                   |                                                                                             |                                                                                             |                                                                                             | Barbed Lid Lead Style                                                                       |                                                                                               |                                                                                               |                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                         | SIP                                                                                         | DIP                                                                                         | J Lead SMT                                                                                  | Low Profile DIP                                                                             | SIP                                                                                         | DIP                                                                                           | J Lead SMT                                                                                    | Low Profile DIP                                                                               |
| Dual Port Same Side     | <br>E1NS | <br>E1ND | <br>E1NJ | N/A                                                                                         | <br>E1BS | <br>E1BD | N/A                                                                                           | N/A                                                                                           |
| Dual Port Opposite Side | <br>E2NS | <br>E2ND | <br>E2NJ | N/A                                                                                         | <br>E2BS | <br>E2BD | N/A                                                                                           | N/A                                                                                           |
| Single Port (Gage)      | <br>EGNS | <br>EGND | <br>EGNJ | <br>EGNL | <br>EGBS | <br>EGBD | <br>EGBJ | <br>EGBL |

NOTE 1) Parylene Coating: Parylene coating provides a moisture barrier and protection from some harsh media. Consult factory for applicability of Parylene for the target application and sensor type.

## Package Drawings

### A6 Package (Without Options)



#### Pinout

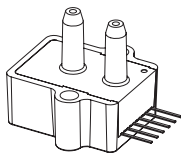
| (Gage)  | (Absolute) |
|---------|------------|
| 1) N/C  | 1) N/C     |
| 2) Vs   | 2) Vs      |
| 3) +Out | 3) -Out    |
| 4) Gnd  | 4) Gnd     |
| 5) -Out | 5) +Out    |
| 6) N/C  | 6) N/C     |

NOTES  
 1) Dimensions are in inches [mm].  
 2) For suggested pad layout, see drawing: PAD-09

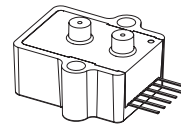
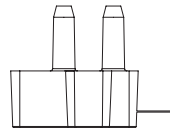
### A-Package: Port Cut Options

Example: MLV-L10D-A6xAF-N

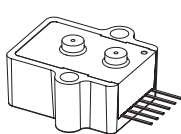
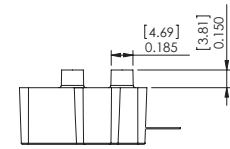
#### Port Cut Options



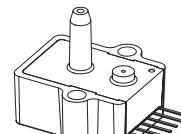
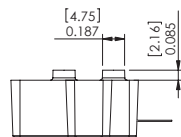
A- No Port Cut Configuration



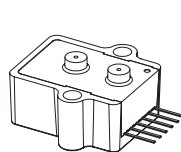
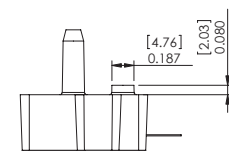
D- Two Ports Cut 0.150" Configuration



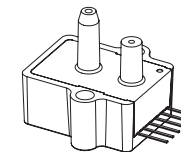
B- Two Ports Cut 0.085" Configuration



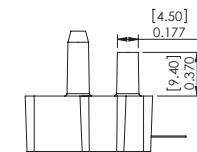
E- Port A cut 0.080" Configuration



C- Two Ports Cut 0.100" Configuration



F- Port A Cut 0.370" Configuration



## A-Package: Port Fitting Options

Example: MLV-L10D-A6DxF-N

### Port Fitting Options

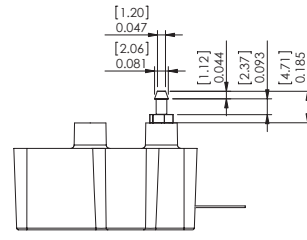
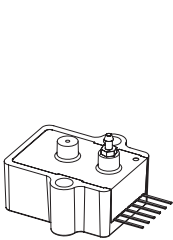
NOTE: Port Cut Configuration "D" Shown As Reference.



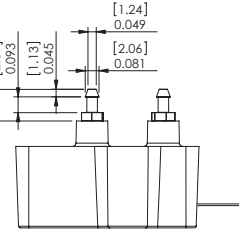
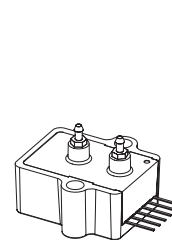
A- No Fittings Configuration



C- Barb Fitting Port B Only Configuration



B- Barb Fitting Port A Only Configuration

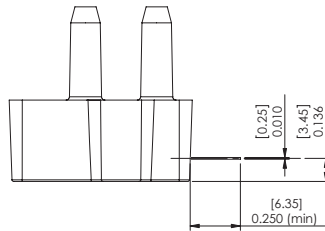
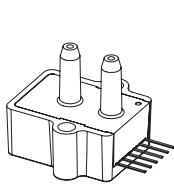


D- Barb Fitting Ports A and B Configuration

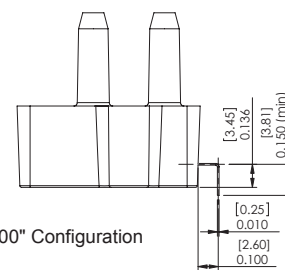
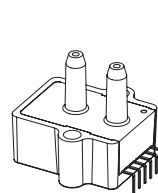
## A-Package: Lead Bend Options

Example: MLV-L10D-A6AAx-N

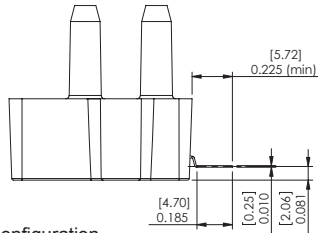
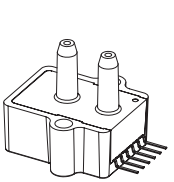
### Lead Bend Options



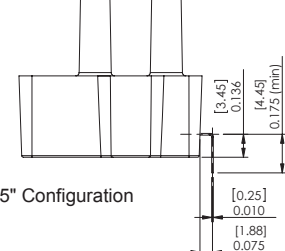
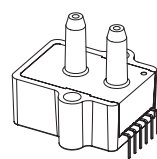
F- Flat (Straight) Configuration



R- Right Angle 0.100" Configuration



J- Jogged Bend Configuration



Q- Right Angle 0.075" Configuration

## E1NS 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

## E1BS 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



## E2NS 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

## E2BS 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

## EGNS Package



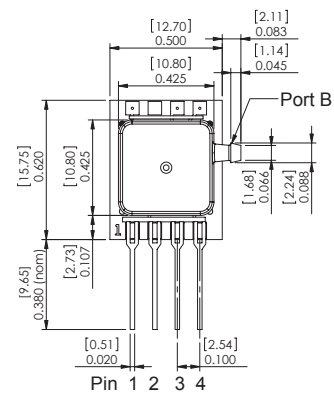
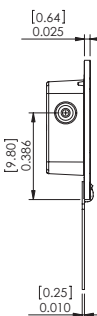
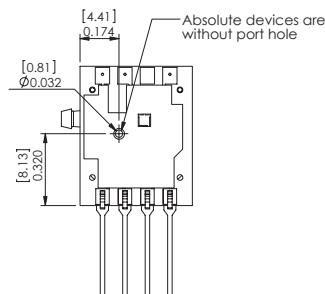
### Pinout

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

### NOTES

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

## EGBS 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



## E1ND Package



### Pinout

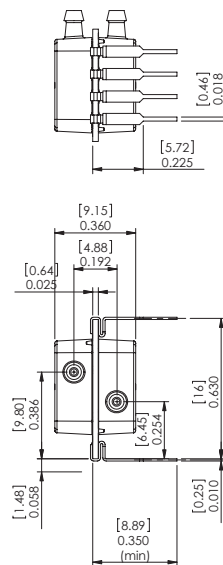
- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03

## E1BD Package



### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03

## E2ND Package



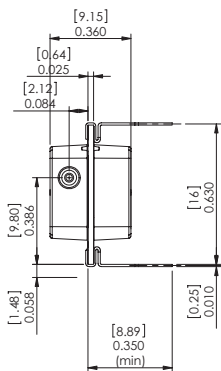
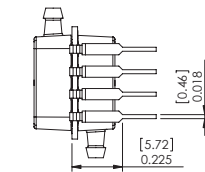
- Pinout**
- 1) Gnd
  - 2) +Out
  - 3) Vs
  - 4) -Out
  - 5) Do Not Connect
  - 6) Do Not Connect
  - 7) Do Not Connect
  - 8) Do Not Connect



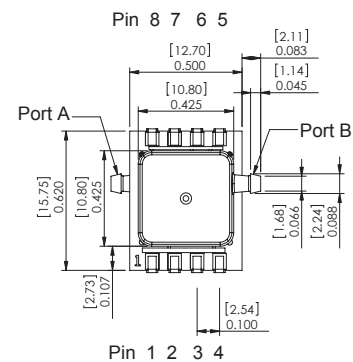
### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03

## E2BD Package



- Pinout**
- 1) Gnd
  - 2) +Out
  - 3) Vs
  - 4) -Out
  - 5) Do Not Connect
  - 6) Do Not Connect
  - 7) Do Not Connect
  - 8) Do Not Connect



### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03



## EGND Package



Pin 8 7 6 5



Pin 1 2 3 4

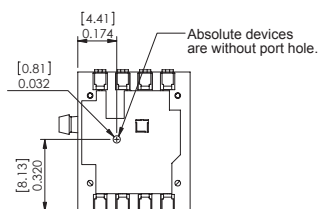
### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03

### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect

## EGBD Package



Pin 8 7 6 5



Pin 1 2 3 4

### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03

### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect

## E1NJ Package



DETAIL A  
SCALE 4 : 1



A



### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect

### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-10

## E2NJ Package



DETAIL A  
SCALE 4 : 1



A



### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect

### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-10



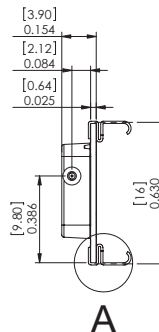
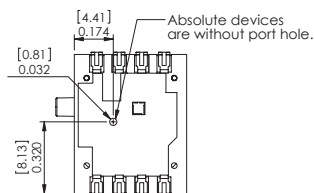
## EGNJ Package



DETAIL A  
SCALE 4 : 1

### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



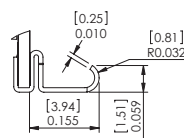
A



### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-10

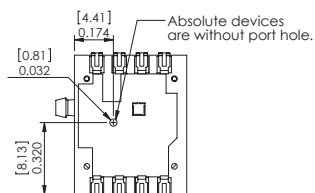
## EGBJ Package



DETAIL A  
SCALE 4 : 1

### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



A



### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-10

## EGNL Package

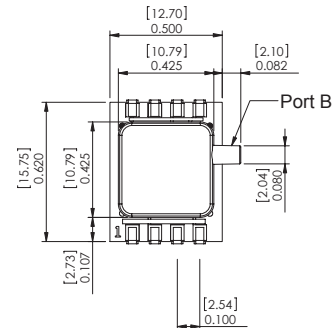


### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



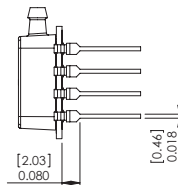
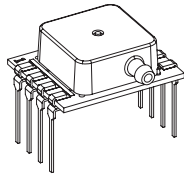
Pin 8 7 6 5



### NOTES

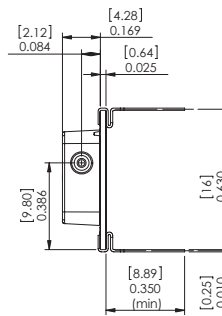
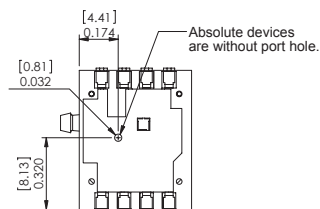
- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03

## EGBL Package

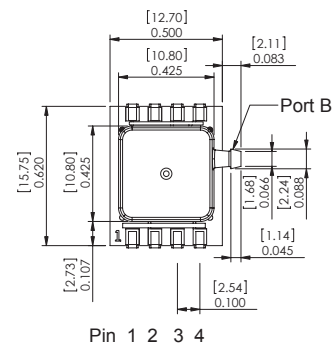


### Pinout

- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



Pin 8 7 6 5



### NOTES

- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03



## Suggested Pad Layout



## Package Characteristics

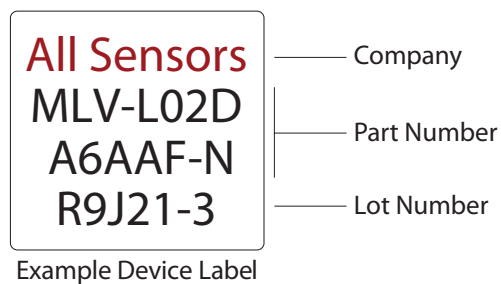
| Package ID | Approximate Port Volume |        |                 |       | Weight | Units | Notes |
|------------|-------------------------|--------|-----------------|-------|--------|-------|-------|
|            | Port A                  | Port B | Units           | Notes |        |       |       |
| A6AAx      | 132                     | 33.6   | mm <sup>3</sup> | 1     | 9.3    | Grams | 2     |
| A6BAx      | 119                     | 20.3   | mm <sup>3</sup> | 1     | 8.7    | Grams | 2     |
| A6CAx      | 119                     | 20.5   | mm <sup>3</sup> | 1     | 8.8    | Grams | 2     |
| A6DAx      | 120                     | 21.3   | mm <sup>3</sup> | 1     | 8.8    | Grams | 2     |
| A6EAx      | 119                     | 33.6   | mm <sup>3</sup> | 1     | 8.9    | Grams | 2     |
| A6FAx      | 125                     | 33.6   | mm <sup>3</sup> | 1     | 9.2    | Grams | 2     |
| E1Nx       | 174                     | 168    | mm <sup>3</sup> | -     | 1.2    | Grams | -     |
| E2Nx       | 174                     | 168    | mm <sup>3</sup> | -     | 1.2    | Grams | -     |
| EGNx       | 1.4                     | 168    | mm <sup>3</sup> | -     | 0.9    | Grams | -     |

### Package Notes

Note 1: Add 4.5 mm<sup>3</sup> per port with barb fitting.

Note 2: Add 0.15 gram per barb fitting.

## Product Labeling



\* 5 PSI to 150 PSI devices may not be assembled with CoBeam<sup>2</sup>™ Technology.

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