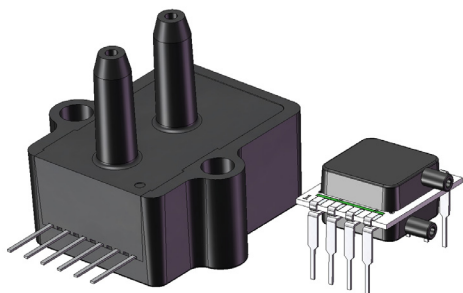


MLV Series Low Voltage Pressure Sensors



Features

- 1 to 30 inH₂O & 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' CoBeam²™ 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 CoBeam² 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 ₂ O	100 inH ₂ O	300 inH ₂ O	7 mV	
MLV-L02D	±2 inH ₂ O	100 inH ₂ O	300 inH ₂ O	10 mV	
MLV-L05D	±5 inH ₂ O	200 inH ₂ O	300 inH ₂ O	15 mV	
MLV-L10D	±10 inH ₂ O	200 inH ₂ O	300 inH ₂ O	20 mV	
MLV-L20D	±20 inH ₂ O	200 inH ₂ O	500 inH ₂ O	20 mV	
MLV-L30D	±30 inH ₂ O	200 inH ₂ O	800 inH ₂ 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 (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
Output Span					
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
Offset Voltage @ Zero Diff. Pressure					
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 ₂ O
L02D	2 in H ₂ O
L05D	5 in H ₂ O
L10D	10 in H ₂ O
L20D	20 in H ₂ O
L30D	30 in H ₂ 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 ₂ O
L02D	2 in H ₂ O
L05D	5 in H ₂ O
L10D	10 in H ₂ O
L20D	20 in H ₂ O
L30D	30 in H ₂ 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

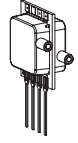
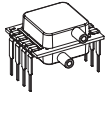
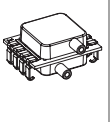
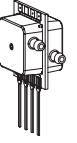
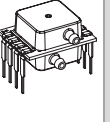
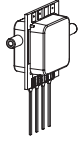
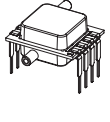
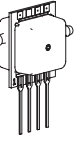
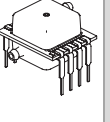
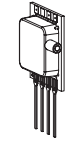
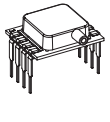
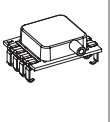
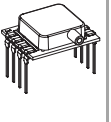
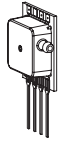
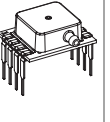
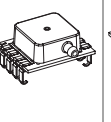
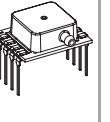
Coating

Option	Description
N	No Coating
P	Parylene Coating

Lead Type

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

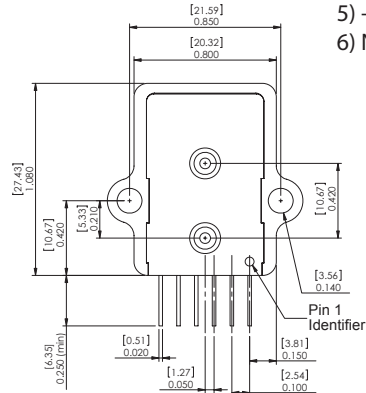
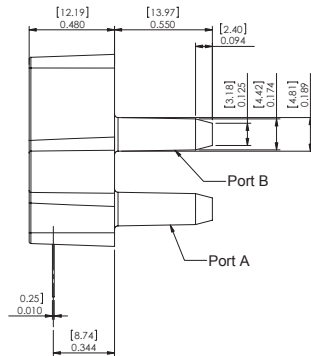
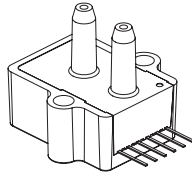
TABLE 1: Available E-Series Package Configurations

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	 E1NS	 E1ND	 E1NJ	N/A	 E1BS	 E1BD	N/A	N/A
Dual Port Opposite Side	 E2NS	 E2ND	 E2NJ	N/A	 E2BS	 E2BD	N/A	N/A
Single Port (Gage)	 EGNS	 EGND	 EGNJ	 EGNL	 EGBS	 EGBD	 EGBJ	 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)

- 1) N/C
- 2) Vs
- 3) +Out
- 4) Gnd
- 5) -Out
- 6) N/C

Pinout

(Absolute)

- 1) N/C
- 2) Vs
- 3) -Out
- 4) Gnd
- 5) +Out
- 6) N/C

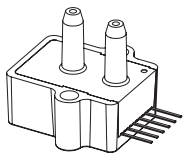
NOTES

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

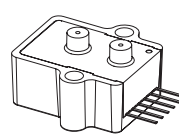
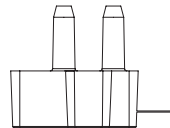
A-Package: Port Cut Options

Example: MLV-L10D-A6xAF-N

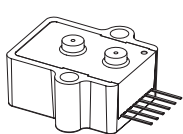
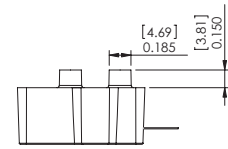
Port Cut Options



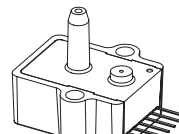
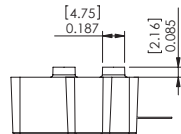
A- No Port Cut Configuration



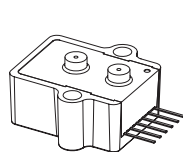
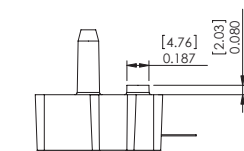
D- Two Ports Cut 0.150" Configuration



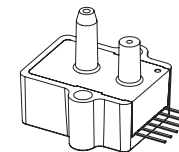
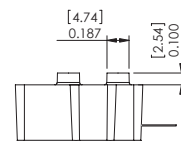
B- Two Ports Cut 0.085" Configuration



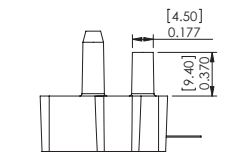
E- Port A cut 0.080" Configuration



C- Two Ports Cut 0.100" Configuration



F- Port A Cut 0.370" Configuration

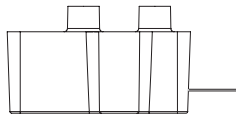
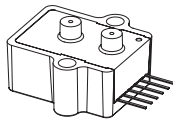


A-Package: Port Fitting Options

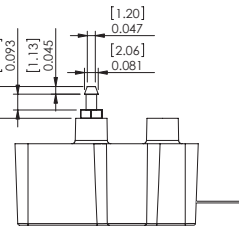
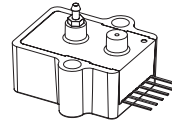
Example: MLV-L10D-A6DxF-N

Port Fitting Options

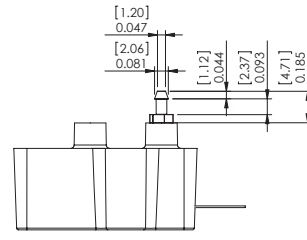
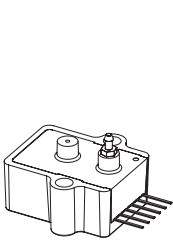
NOTE: Port Cut Configuration "D" Shown As Reference.



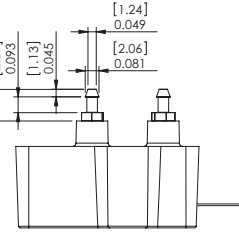
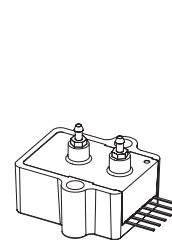
A- No Fittings Configuration



C- Barb Fitting Port B Only Configuration



B- Barb Fitting Port A Only Configuration

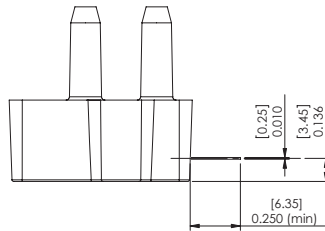
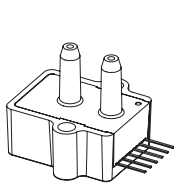


D- Barb Fitting Ports A and B Configuration

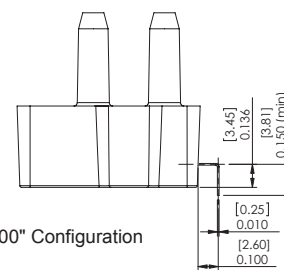
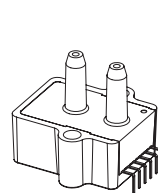
A-Package: Lead Bend Options

Example: MLV-L10D-A6AAx-N

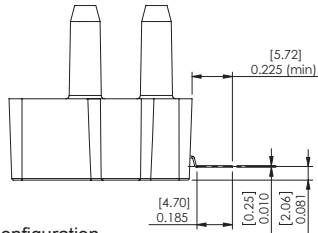
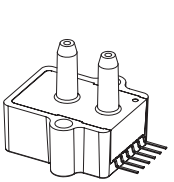
Lead Bend Options



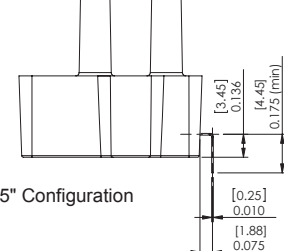
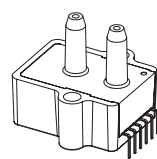
F- Flat (Straight) Configuration



R- Right Angle 0.100" Configuration

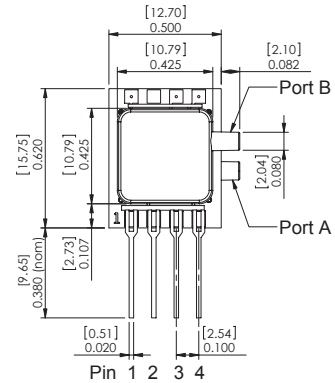
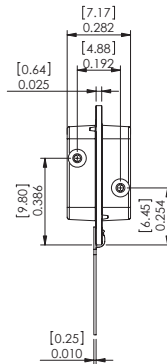
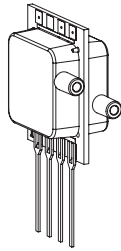


J- Jogged Bend Configuration



Q- Right Angle 0.075" Configuration

E1NS Package



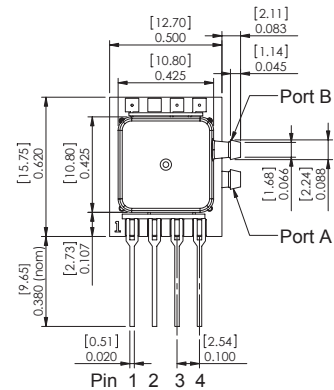
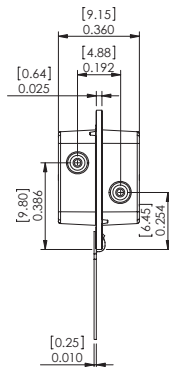
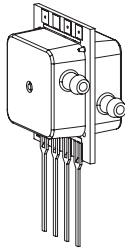
Pinout

- 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

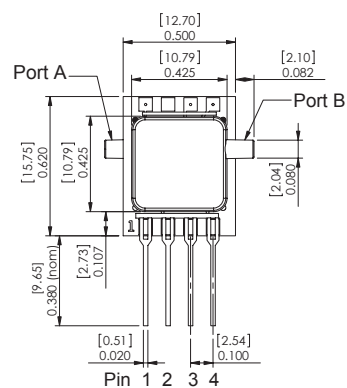
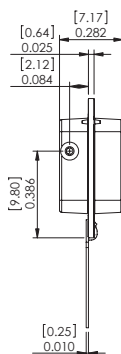
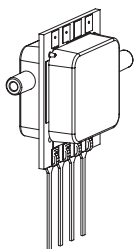
- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out

NOTES

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



E2NS Package



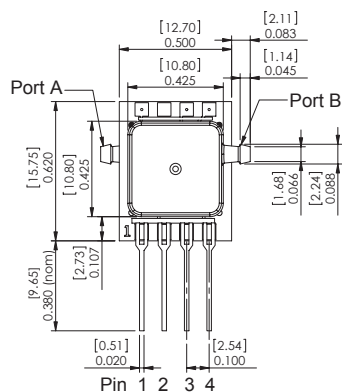
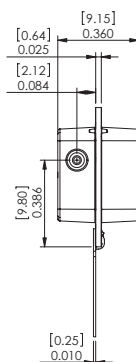
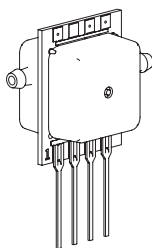
Pinout

- 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



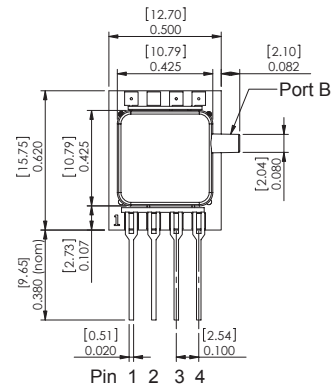
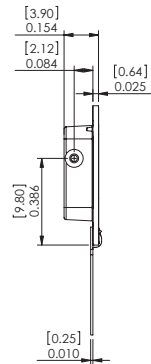
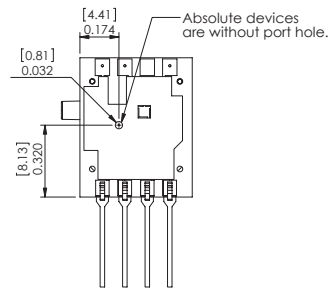
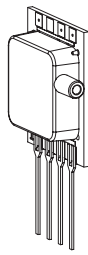
Pinout

- 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



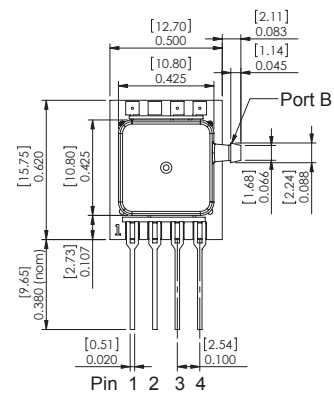
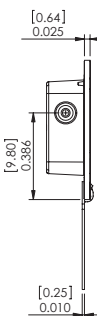
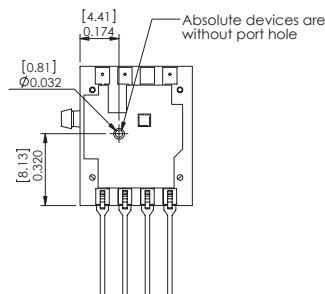
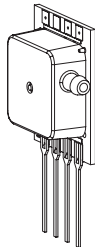
Pinout

- 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

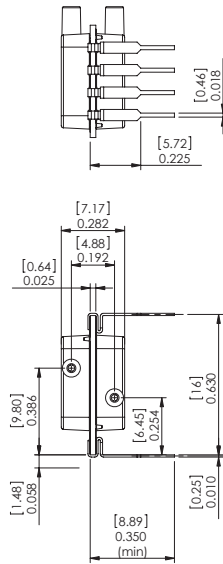
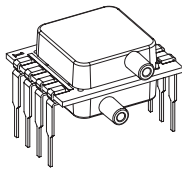
- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out

NOTES

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

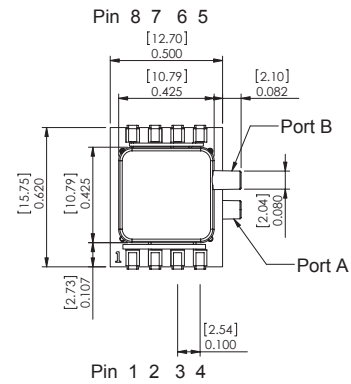


E1ND Package



Pinout

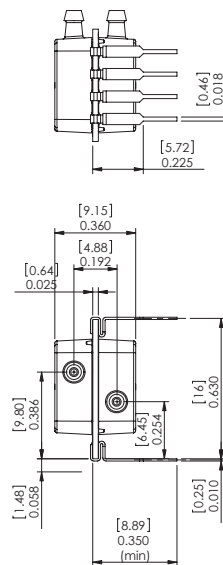
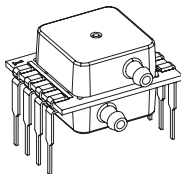
- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



NOTES

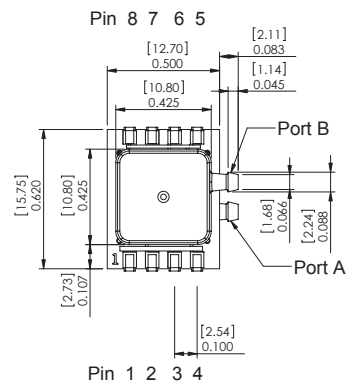
- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03

E1BD Package



Pinout

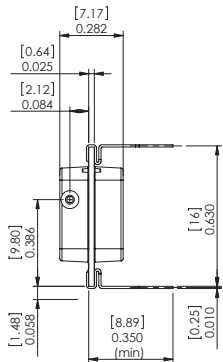
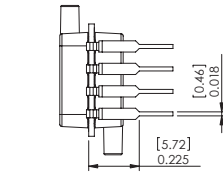
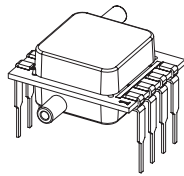
- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



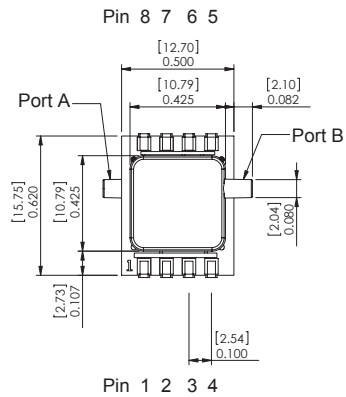
NOTES

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

E2ND Package



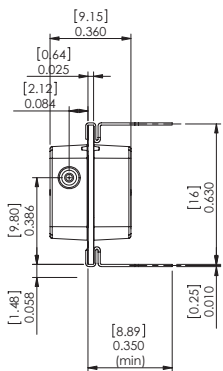
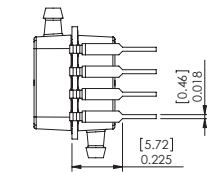
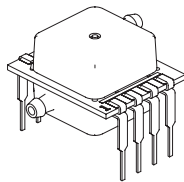
- Pinout**
- 1) Gnd
 - 2) +Out
 - 3) Vs
 - 4) -Out
 - 5) Do Not Connect
 - 6) Do Not Connect
 - 7) Do Not Connect
 - 8) Do Not Connect



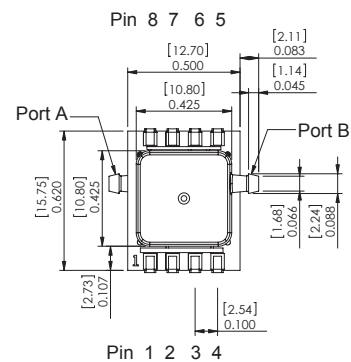
NOTES

- 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

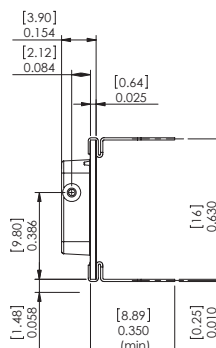
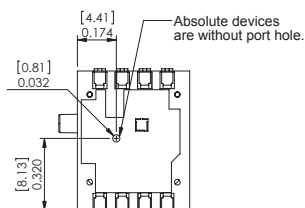
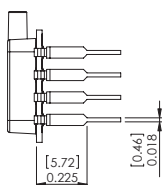
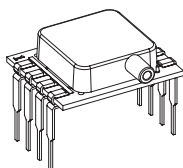


NOTES

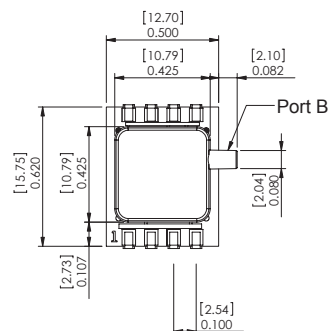
- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03



EGND Package



Pin 8 7 6 5



Pin 1 2 3 4

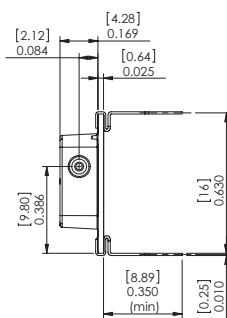
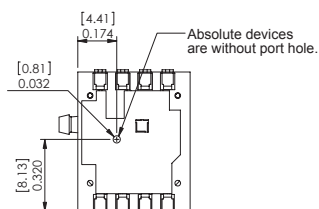
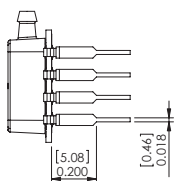
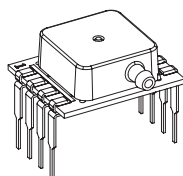
NOTES

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

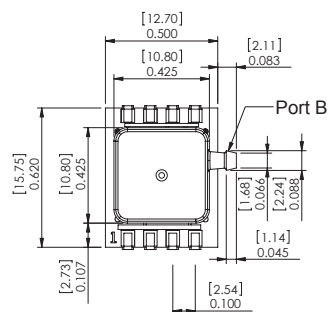
Pinout

- 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

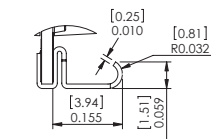
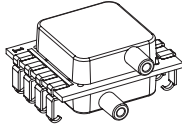
NOTES

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

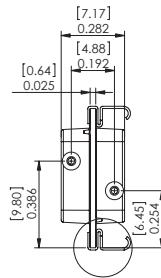
Pinout

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

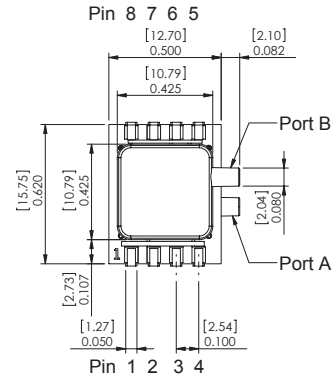
E1NJ Package



DETAIL A
SCALE 4 : 1



A



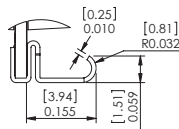
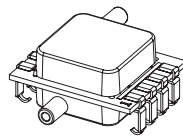
Pinout

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

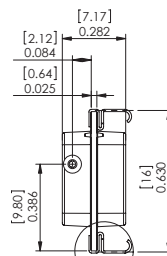
NOTES

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

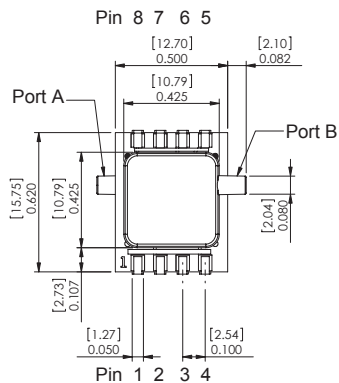
E2NJ Package



DETAIL A
SCALE 4 : 1



A



Pinout

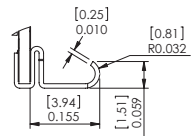
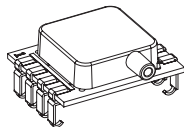
- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect

NOTES

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



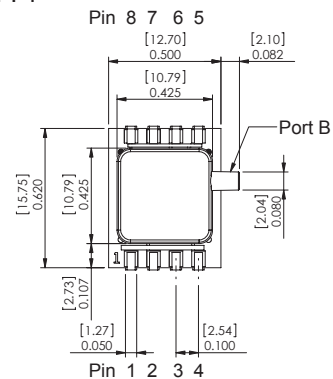
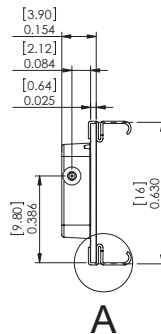
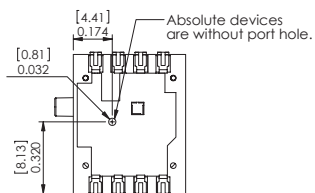
EGNJ Package



DETAIL A
SCALE 4 : 1

Pinout

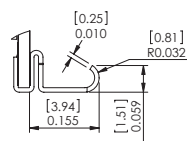
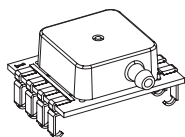
- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



NOTES

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

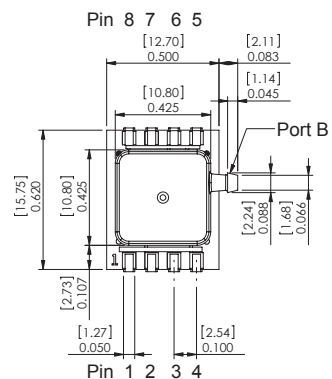
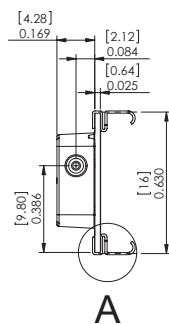
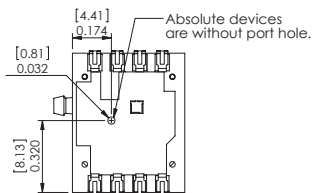
EGBJ Package



DETAIL A
SCALE 4 : 1

Pinout

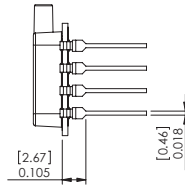
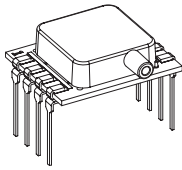
- 1) Gnd
- 2) +Out
- 3) Vs
- 4) -Out
- 5) Do Not Connect
- 6) Do Not Connect
- 7) Do Not Connect
- 8) Do Not Connect



NOTES

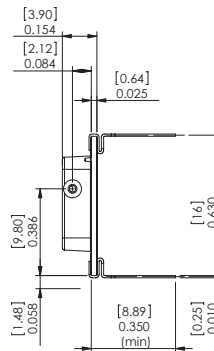
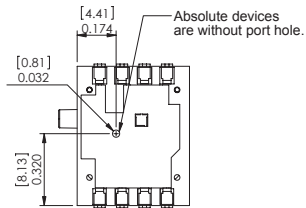
- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-10

EGNL Package

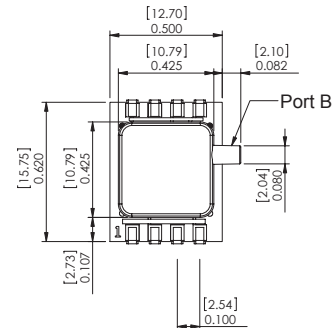


Pinout

- 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

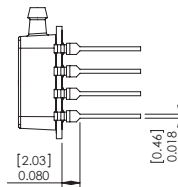
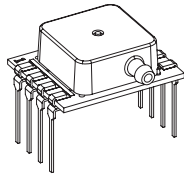


Pin 1 2 3 4

NOTES

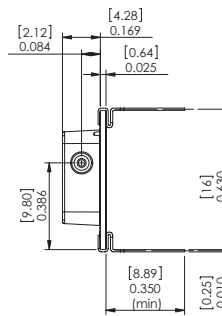
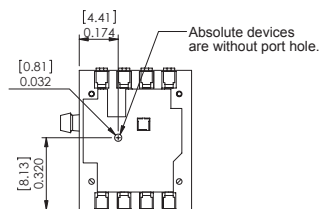
- 1) Dimensions are in inches [mm]
- 2) For suggested pad layout, see drawing: PAD-03

EGBL Package

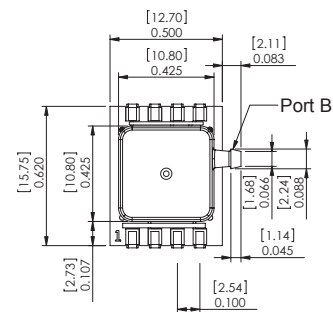


Pinout

- 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



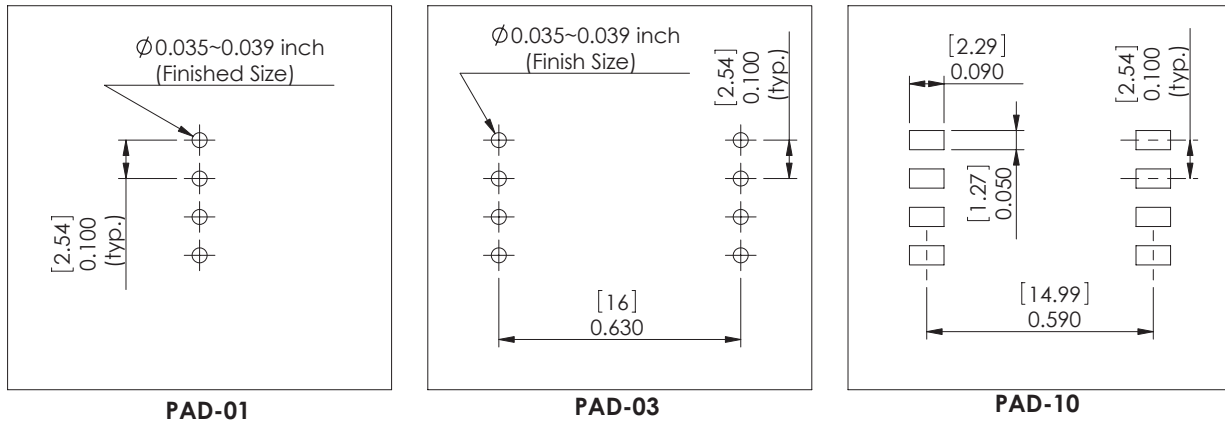
Pin 1 2 3 4

NOTES

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



Suggested Pad Layout



Package Characteristics

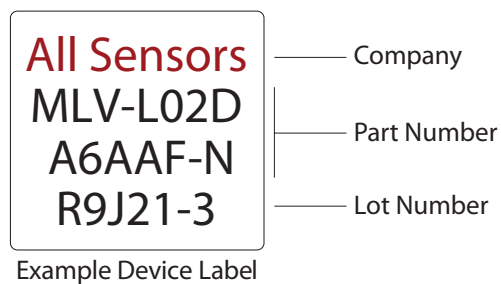
Package ID	Approximate Port Volume				Weight	Units	Notes
	Port A	Port B	Units	Notes			
A6AAx	132	33.6	mm ³	1	9.3	Grams	2
A6BAx	119	20.3	mm ³	1	8.7	Grams	2
A6CAx	119	20.5	mm ³	1	8.8	Grams	2
A6DAx	120	21.3	mm ³	1	8.8	Grams	2
A6EAx	119	33.6	mm ³	1	8.9	Grams	2
A6FAx	125	33.6	mm ³	1	9.2	Grams	2
E1Nx	174	168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

Package Notes

Note 1: Add 4.5 mm³ 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 CoBeam²™ Technology.

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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