

# Characteristics

Unless otherwise specified, all parameters are measured at 25 °C and 60% RH

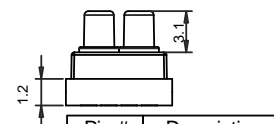
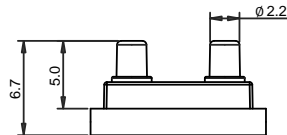
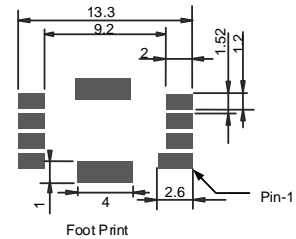
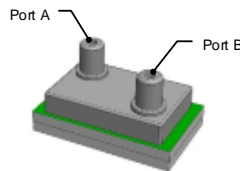
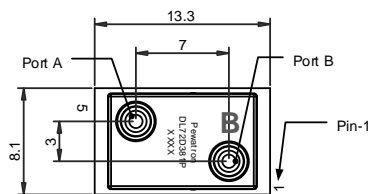
Preliminary

Parameters	Min	Typ	Max	Unit
Excitation	5 Vdc @ 5 mA (2.7 - 5.5 Vdc)			
Pressure range	-50		50	mbar
Resolution <sup>1</sup>			16	Bit
Zero Output (0 mbar)		0		Dec
Full Scale Output (-/+50 mabr)	-25600		25600	Dec
Accuracy(25°C)		0.25		%FS, +1LSB
Accuracy(0/50°C) <sup>2</sup>		1.5		%FS, +1LSB
Accuracy(-20/70°C) <sup>2</sup>		2.5		%FS, +1LSB
Update Rate		1		kHz
Temp - Compensating	-20		70	°C
Temp - Operating	-20		+80	°C
Temp - Storage	-40		+125	°C
Over Pressure	3X			FS
Burst Pressure	6X			FS

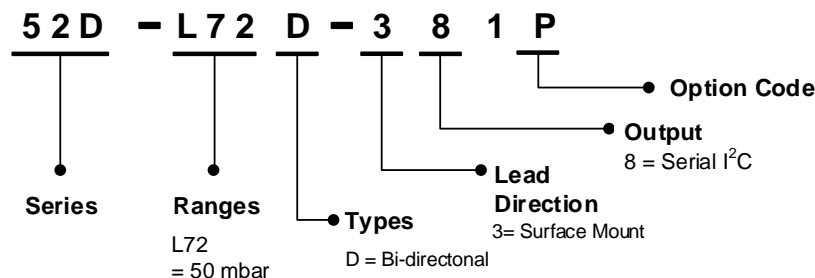
NOTES:

1. ENOB = 14 bits
2. Combined accuracy with auto-zero
3. Wetted material contains polyimide, silicon, Au, pyrex, epoxy & FR4
4. Zeroing after installation is recommended
5. The factory setting for I2C slave address is 0x6C Default

## Dimension



## Ordering Information



Pin #	Description
1	SDA
2	SCL
3	EOC
4	N.C
5	OUT
6	N.C.
7	VDD
8	GND

Notes:

1. Port B is used for positive differential or gage
2. All dimensions are mm
3. Soldering of lead pins: 250 °C for 5 sec max.
4. N.C. pins must be left floating
5. Pull-up on SCL and SDA is 1KΩ min.
6. A 0.1 uF capacitor must be connected between V<sub>SS</sub> and V<sub>DD</sub>, and closing to the sensor

SCD7-311-AL70G  
03-19 R0

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