

General Specifications

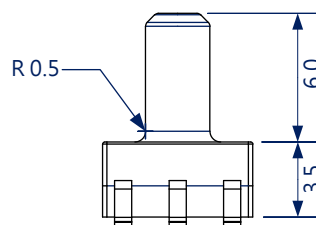
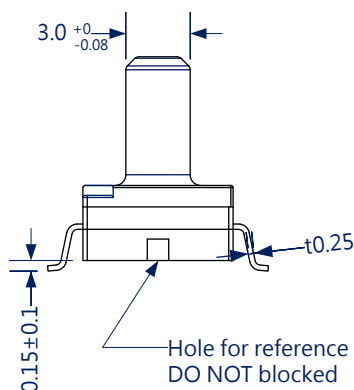
PRELIMINARY

Parameters	Min	Typ	Max	Unit
Temp - Operating ¹	-20		85	°C
Temp - Compensated ²	0		50	°C
Temp - Storage	-40		125	°C
Humidity ³	0		95	%RH
Over-pressure ^{4,7}			3X	Rated Pressure
Burst Pressure ^{4,8}			6X	Rated Pressure
Long-term Stability ⁵			0.5	%FS
Orientation Sensitivity ⁶		N/A		%FS/g
ESD – HBM	-2		+2	kV
Vibration	20g, 10Hz to 2Hz			
Solder Reflow	J-STD-020 MSL 3			
Soldering Profile	260°C, 10 sec.			

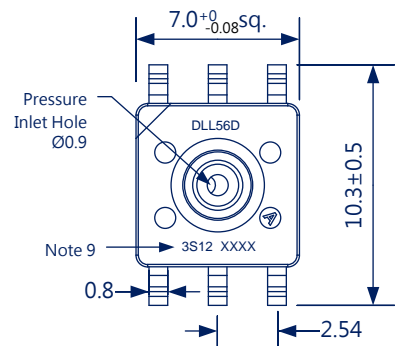
NOTES:

1. -40 to 85 °C is available upon request.
2. Custom temperature compensation is available upon request.
3. Gas only, no condensation.
4. Range dependent. Refer to individual data sheet.
5. Zero stability to be tested with 120 hour hot storage at 85 °C , which is roughly equivalent to accelerated aging of the part for over a year at Room Temperature.
6. Measured orientation effect on the zero output of sensor Which pressure range less than 0.3 psi.
7. Over-pressure (OP): the maximum pressure that may be applied to the sensor without causing a change in performance with respect to the specifications.
8. Burst-pressure (BP): The maximum pressure that may be applied to the sensor without a catastrophic failure.

Dimension



Note:
Soldering of lead pins: 260 °C for 10 sec max.
Unit: mm



Electrical Specifications

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

PRELIMINARY

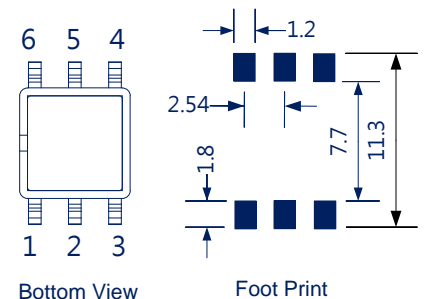
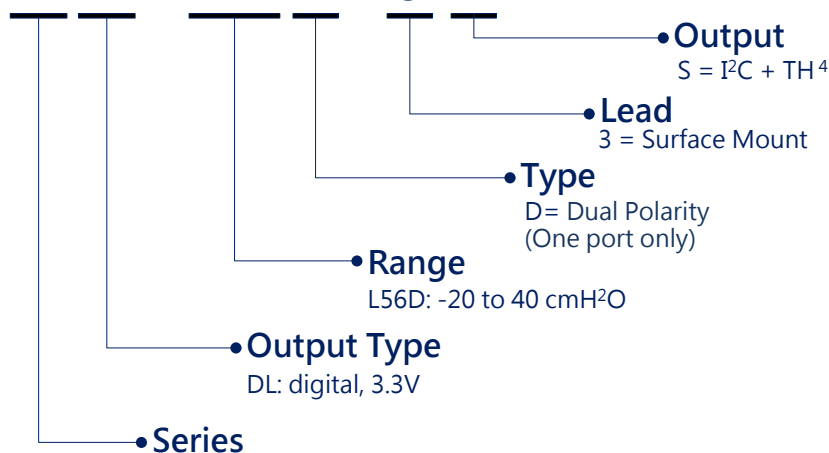
Parameters	Min	Typ	Max	Unit
Supply (V_{DD}) ¹	2.75	3.3	3.6	V
Operating Current ²		2.2	3.2	mA
Stand-by Current		0.8	1.5	uA
Pressure Range	-20		40	cmH ₂ O
Output (-20 cmH ₂ O)	6553 (dec) / 1999 (hex)			
Output (0 cmH ₂ O)	15290 (dec) / 3BBA (hex)			
Output (40 cmH ₂ O)	58982 (dec) / E666 (hex)			
Accuracy (25°C)		±0.25		%FS
Accuracy (0 - 50°C) ³			± 1.8	%FS
Update Rate		1.2		kHz
Start-up Time			2	ms
Wake-up Time		2	10	μs
Input High Level	0.7		1.0	V_{DD}
Input Low Level	0		0.3	V_{DD}
Interface Clock – I ² C	0.1		3.4	MHz
Threshold Interrupt ⁴			40	cmH ₂ O

NOTES:

- 3.3V or 5.0V supply should be ordered separately. Other supply voltage from 2.75 to 5.5V is available upon request.
- Continuously running measurement sequence is executed.
- Combines errors from 0 to 50 °C after reflow mounting and auto-zero.
- Threshold interrupt active output at INT from high to low.
- The factory setting for I2C slave address is 0x28 Default
- Thin-film biocompatibility conformal coating, thickness 100n.

Ordering Information

3 9 DL – L 5 6 D – 3 S 1 2



Pin	Description
1	INT ⁴
2	SDA
3	SCL
4	V_{dd}
5	V_{ss}
6	N.C.

NOTES:

- N.C. pins must be left floating
- A 0.1uF capacitor must be connected between V_{DD} and V_{SS}