

Model Number

138A

## CHARGE OUTPUT PRESSURE SENSOR

Revision: C

ECN #: 29153

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity( $\pm 20\%$ )	0.18 pC/psi	0.026 pC/kPa	[1]
Measurement Range	+25 kpsi	+172,380 kPa	
Maximum Pressure(step)	50 kpsi	344,800 kPa	
Resonant Frequency	$\geq 1000$ kHz	$\geq 1000$ kHz	
Rise Time(Reflected)	$\leq 1.5$ $\mu$ sec	$\leq 1.5$ $\mu$ sec	
Non-Linearity	$\leq 2.0\%$ FS	$\leq 2.0\%$ FS	[2]
<b>Environmental</b>			
Temperature Range(Operating)	0 to 100 °F	-17.8 to 37.5 °C	
Maximum Shock	20,000 g pk	196,140 m/s <sup>2</sup> pk	
<b>Electrical</b>			
Output Polarity(Positive Pressure)	Negative	Negative	
Capacitance( $\pm 15\%$ )	18 pF	18 pF	
Insulation Resistance(at room temp)	$\geq 10^{12}$ ohm	$\geq 10^{12}$ ohm	
<b>Physical</b>			
Sensing Element	Tourmaline	Tourmaline	
Housing Material	316L Stainless Steel	316L Stainless Steel	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	.75 oz	21 gm	

All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without notice.

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## OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**P** - Positive Output Polarity

**W** - Water Resistant Cable

## NOTES:

[1] Calibrated range to 20,000 psi.

[2] Zero-based, least-squares, straight line method.

Entered: BLS	Engineer: BSH	Sales: RNL	Approved: APB	Spec Number:
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