

Model Number

138A24

CHARGE OUTPUT PRESSURE SENSOR

Revision: A

ECN #: 29153

Performance	ENGLISH	SI	
Sensitivity(± 20 %)	0.18 pC/psi	0.026 pC/kPa	
Measurement Range	25 kpsi	172,380 kPa	[2]
Maximum Pressure	50 kpsi	344,800 kPa	
Resonant Frequency	≥ 1000 kHz	≥ 1000 kHz	
Rise Time(Reflected)	≤ 1.5 μ sec	≤ 1.5 μ sec	
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	[3]
Environmental			
Temperature Range(Operating)	0 to 100 °F	-17.8 to 37.5 °C	
Maximum Shock	20,000 g pk	196,140 m/s ² pk	
Electrical			
Output Polarity(Positive Pressure)	Negative	Negative	[1]
Capacitance	18 pF	18 pF	
Insulation Resistance(at room temp)	≥ 10 ¹² ohm	≥ 10 ¹² ohm	
Physical			
Sensing Element	Tourmaline	Tourmaline	
Housing Material	316L Stainless Steel	316L Stainless Steel	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.78 oz	22 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] Typical.

[2] Calibrated range to 20,000 psi.

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

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