

Model Number 113M231	CVLD PRESSURE SENSOR			Revision: F ECN #: 55076
Performance	ENGLISH	SI		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.
Measurement Range	100 psi	689.5 kPa		
Sensitivity(± 15 %)	50 µA/psi	344.7 µA/kPa		
Maximum Pressure	1,000 psi	6,895 kPa		
Resonant Frequency	≥ 200 kHz	≥ 200 kHz		
Rise Time	≤ 2.0 µ sec	≤ 2.0 µ sec		
Low Frequency Response(- 5 %)	0.5 Hz	0.5 Hz		
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[1]	
Environmental				
Acceleration Sensitivity	0.005 psi/g	0.0035 kPa/(m/s ²)	[2]	
Temperature Range(Operating)	-4 to +176 °F	-20 to +80 °C		
Temperature Coefficient of Sensitivity	-0.03 %/°F	-0.054 %/°C	[2]	
Maximum Vibration	2,000 g pk	19,614 m/s ² pk		
Maximum Shock	20,000 g pk	196,140 m/s ² pk		
Electrical				
Output Polarity(Positive Pressure)	Positive	Positive		
Discharge Time Constant	≥ 1.0 sec	≥ 1.0 sec		
Excitation Voltage(± 0.5 VDC)	15 VDC	15 VDC		
Settling Time	< 7 sec	< 7 sec		
Spectral Noise(1 kHz)	43 µpsi/√Hz	6,192 µPa/√Hz	[2]	
Spectral Noise(10 kHz)	32 µpsi/√Hz	4,608 µPa/√Hz	[2]	
Electrical Isolation	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm		
Bias Current	7 to 12 mA	7 to 12 mA	[3]	
Physical				
Sensing Geometry	Compression	Compression		
Sensing Element	Quartz	Quartz		
Housing Material	17-4 Stainless Steel	17-4 Stainless Steel		
Diaphragm	316L Stainless Steel	316L Stainless Steel		
Coating	Emralon	Emralon		
Sealing	Welded Hermetic	Welded Hermetic		
Electrical Connections(center lead)	Signal / Power	Signal / Power		
Electrical Connections(braid)	Ground	Ground		
Weight(without cable)	0.51 oz	14.5 gm	[2]	
Cable Termination	Blunt cut	Blunt cut		
Cable Type	∅.12 santoprene jacket,coax,water blocked	∅.12 santoprene jacket,coax,water blocked		
Cable Length	20 ft	6 m		
<p>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.</p>				<p>NOTES: [1]Zero-based, least-squares, straight line method. [2]Typical. [3]Bias mA = 2.1 x Excitation VDC - 22.8</p>
				<p>SUPPLIED ACCESSORIES: Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.</p>
Entered: ND	Engineer: AJA	Sales: RWM	Approved: RPF	Spec Number:
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