

Model Number 113M231		CVLD PRESSURE SENSOR			Revision: E ECN #: 38494		
Performance		ENGLISH	SI	OPTIONAL VERSIONS			
Measurement Range		100 psi	689.5 kPa	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.			
Sensitivity(± 15 %)		50 µA/psi	344.7 µA/kPa				
Maximum Pressure		1 kpsi	6895 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	NOTES: [1] Typical. [2] Bias mA = 2.1 x Excitation VDC - 22.8 [3] Zero-based, least-squares, straight line method.			
Non-Linearity		≤ 1.0 % FS	≤ 1.0 % FS				[3]
Environmental							
Acceleration Sensitivity		≤ 0.005 psi/g	≤ 0.0035 kPa/(m/s²)				
Temperature Range(Operating)		-4 to +176 °F	-20 to +80 °C				
Temperature Coefficient of Sensitivity		-0.03 %/°F	-0.054 %/°C	[1]			
Maximum Vibration		2000 g pk	19,614 m/s² pk				
Maximum Shock		20,000 g pk	196,140 m/s² pk				
Electrical							
Output Polarity(Positive Pressure)		Positive	Positive				
Discharge Time Constant		≥ 1.0 sec	≥ 1.0 sec	[1]			
Excitation Voltage(± 0.5 VDC)		15 VDC	15 VDC				
Settling Time		<7 sec	<7 sec				
Spectral Noise(1 kHz)		43 µpsi/√Hz	6192 µPa/√Hz	[1]			
Spectral Noise(10 kHz)		32 µpsi/√Hz	4608 µPa/√Hz	[1]			
Electrical Isolation		≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	[1]			
Bias Current		7 to 12 mA	7 to 12 mA	[2]			
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	[1]			
Weight(without cable)		0.51 oz	14.5 gm				
Cable Termination		Blunt cut	Blunt cut				
Cable Type		Ø.12 santoprene jacket,coax,water blocked	Ø.12 santoprene jacket,coax,water blocked				
Cable Length		20 ft	6 m				
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.							
		Entered: DMW Engineer: do Sales: RWM Approved: BAM Spec Number: Date: 2/14/2012 Date: 2/14/2012 Date: 2/14/2012 Date: 2/14/2012 50699					
		 Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: info@pcb.com					
		3425 Walden Avenue, Depew, NY 14043					