MCB211 Series

High Frequency, Lightweight Underwater Accelerometer, Top Exit Molded Integral Cable, 10-32 Mounting, 10 mV/g, ±10%

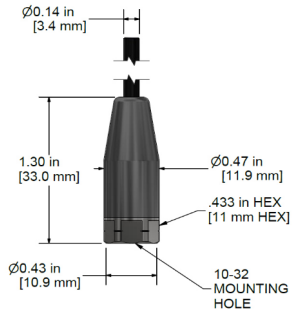
VIBRATION ANALYSIS HARDWARE

Product Features

- Nylon Overmolded Accelerometer
- IP68 Rated
- High Frequency, 30 kHz Response

MCB211
CB127 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common



Built To Order

Specifications	Standard	Metric
Part Number	MCB211	MCB221
Sensitivity (±10%)	10 mV/g	
Frequency Response (±3dB)	30-1,800,000 CPM	0.5 Hz-30 kHz
Frequency Response (±10%)	60-900,000 CPM	1 Hz-15 kHz
Frequency Response (±5%)	120-600,000 CPM	2 Hz-10 kHz
Dynamic Range	± 500 g, peak	
Electrical		
Settling Time	< 2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	100 µg/√Hz	
Spectral Noise @ 100 Hz	19 µg/√Hz	
Spectral Noise @ 1000 Hz	5 µg/√Hz	
Output Impedance	< 100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10^8 ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	10,000 g, peak	
Electromagnetic Sensitivity	CE Approved	
Sealing	IP68 Integrally Molded Cable	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	0.35 oz	10 grams
Mounting Base	316L Stainless Steel	
Mounting	10-32 UNF	
Cable Jacket Diameter	0.14 in (3.6 mm)	
Cable Jacket Material	Polyurethane	
Cable Conductor	26 AWG Twisted Shielded Pair	
Resonant Frequency	2,640,000 CPM	44 kHz
Mounting Hardware	10-32 Stud	M5 Stud
Calibration Certificate	CA10	

Typical Frequency Response