

MCB211 Series

High Frequency, Lightweight, Cost Effective Molded Sensor, Top Exit Molded
Integral Cable, 10-32 Mounting, 10 mV/g, $\pm 10\%$



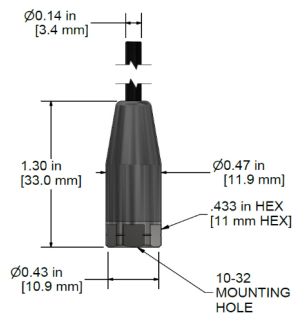
Product Features

- ▶ 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	Specifications	Standard	Metric
Part Number	MCB211	M/MCB211	Environmental		
Sensitivity ($\pm 10\%$)	10 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	30-1,800,000 CPM	0.5 Hz-30 kHz	Maximum Shock Protection	10,000 g, peak	
Frequency Response ($\pm 10\%$)	60-900,000 CPM	1 Hz-15 kHz	Electromagnetic Sensitivity	CE Approved	
Frequency Response ($\pm 5\%$)	120-600,000 CPM	2 Hz-10 kHz	Sealing	IP68	
Dynamic Range	± 500 g, peak *Vsource $\geq 22\text{V}$, 12Vbias		SIL Rating	SIL 2	
Transverse Sensitivity	$\leq 5\%$		Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	< 2 Seconds		Sensing Structure	Shear Mode	
Voltage Source	18-30 VDC		Weight	0.35 oz	10 grams
Constant Current Excitation	2-10 mA		Mounting Base	316L Stainless Steel	
Spectral Noise @ 10 Hz	100 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Thread	10-32 UNF	
Spectral Noise @ 100 Hz	19 $\mu\text{g}/\sqrt{\text{Hz}}$		Cable Jacket Diameter	0.14 in (3.6 mm)	
Spectral Noise @ 1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$		Cable Jacket Material	Polyurethane	
Output Impedance	< 100 ohm		Cable Conductor	26 AWG Twisted Shielded Pair	
Bias Output Voltage	10-14 VDC		Resonant Frequency	2,640,000 CPM	44 kHz
Case Isolation	>10 ⁸ ohm		Mounting Torque	1.5 - 2.5 ft. lbs	2.0 to 3.4 Nm
			Mounting Hardware Supplied	10-32 Stud	M5 Stud
			Calibration Certificate	CA10	

Typical Frequency Response

