

MCB211 Series

Lightweight, Molded Accelerometer; 10 mV/g, Top Exit, Integral Cable, 10-32 Mounting, Premium, High Frequency



A CTC COMPANY



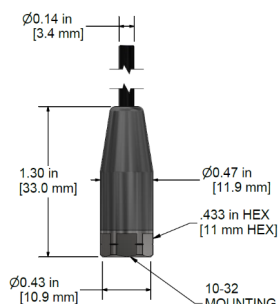
Product Features

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

MCB211

Integral Cable

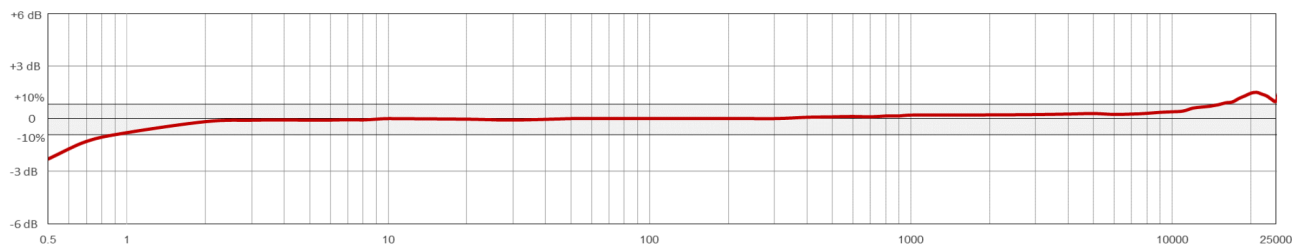
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MCB211	M/MCB211	<u>Environmental</u>		
Sensitivity ($\pm 10\%$)		10 mV/g	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 Pending
Frequency Response ($\pm 5\%$)	120-600,000 CPM	2 Hz-10 kHz	Sealing		Welded, Hermetic
Dynamic Range		± 500 g, peak	<u>Physical</u>		
<u>Electrical</u>			Sensing Element		PZT Ceramic
Settling Time		< 2 Seconds	Sensing Structure		Shear Mode
Voltage Source (IEPE)		18-30 VDC	Weight	0.35 oz	10 grams
Constant Current Excitation		2-10 mA	Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz		100 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting		10-32 UNF
Spectral Noise @ 100 Hz		19 $\mu\text{g}/\sqrt{\text{Hz}}$	Connector		10-32
Spectral Noise @ 1000 Hz		5 $\mu\text{g}/\sqrt{\text{Hz}}$	Cable Jacket Diameter		0.14 in (3.6 mm)
Output Impedance		< 100 ohm	Cable Jacket Material		Polyurethane
Bias Output Voltage		10-14 VDC	Cable Conductor		26 AWG
Case Isolation		>10 ⁸ ohm			Twisted Shielded Pair
			Resonant Frequency	2,640,000 CPM	44 kHz
			Mounting Hardware	10-32 Stud	M5 Stud
			Calibration Certificate		CA10

Typical Frequency Response



Lifetime Warranty on Materials & Workmanship

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