

MCB211 Series

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



PROTECTION & RELIABILITY INSTRUMENTS



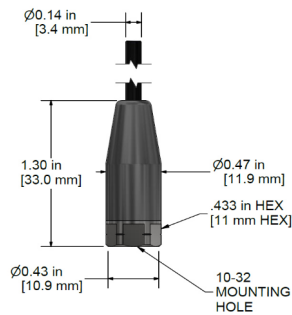
Product Features

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

MCB211

Integral Cable

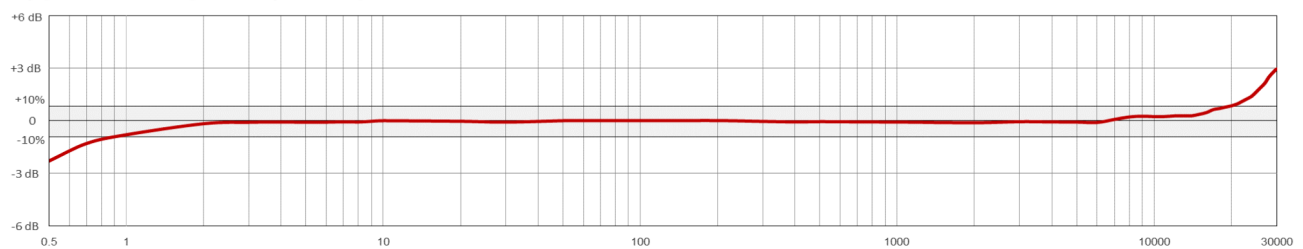
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MCB211	MCB221	Environmental		
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 Approved
Frequency Response ($\pm 5\%$)	120-600,000 CPM	2 Hz-10 kHz	Sealing	IP68 Integrally Molded Cable	
Dynamic Range	± 500 g, peak		Physical		
Electrical			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		Mounting Base	316L Stainless Steel	
Spectral Noise @ 10 Hz	100 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting	10-32 UNF	
Spectral Noise @ 100 Hz	19 $\mu\text{g}/\sqrt{\text{Hz}}$		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	
Bias Output Voltage	10-14 VDC			Twisted Shielded Pair	
Case Isolation	$> 10^8$ ohm		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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