

MEB210 Series



Lightweight, Cost Effective Molded Sensor, Top Exit Molded Integral Cable, 10-32 Mounting, 100 mV/g, ±10%

VIBRATION ANALYSIS HARDWARE



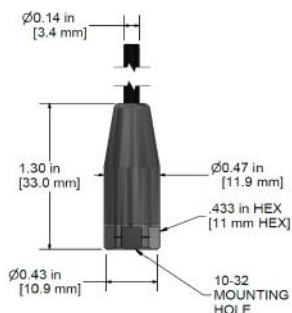
Product Features

- ▶ Nylon Overmolded Accelerometer
- ▶ IP68 Rated
- ▶ Low Cost

MEB210

CB127 Integral Cable

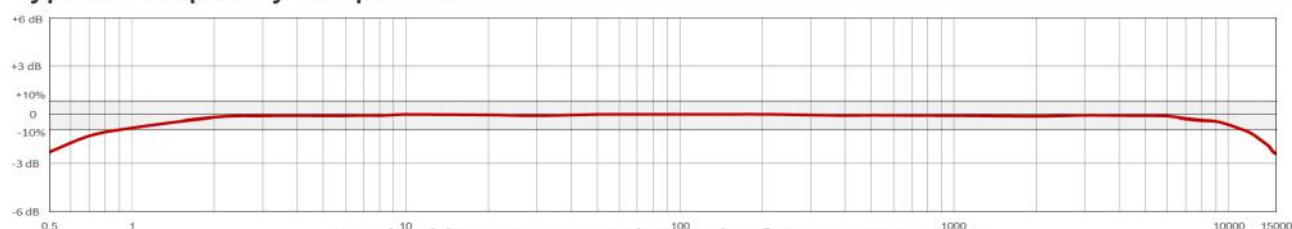
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MEB210	M/MEB210	Environmental		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5 Hz-15 kHz	Maximum Shock Protection	10,000 g, peak	
Frequency Response (±10%)	60-600,000 CPM	1 Hz-10 kHz	Electromagnetic Sensitivity	CE Approved	
Dynamic Range	± 80g, peak *Vsource ≥ 22V, 12Vbias		Sealing	IP68 Integrally Molded Cable	
Electrical			Submersible Depth	200 ft.	61 m
Settling Time	< 2 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	30 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 µg/√Hz		Weight	0.35 oz	10 grams
Spectral Noise @ 1000 Hz	2 µg/√Hz		Mounting Base	316L Stainless Steel	
Output Impedance	< 100 ohm		Mounting Thread	10-32 UNF	
Bias Output Voltage	10-14 VDC		Cable Jacket Diameter	0.14 in (3.6 mm)	
Case Isolation	>10 ⁸ ohm		Cable Jacket Material	Polyurethane	
			Cable Conductor	26 AWG Twisted Shielded Pair	
			Resonant Frequency	2,640,000 CPM	44 kHz
			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



Backed by our Unconditional Lifetime Warranty

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MCB211 Series



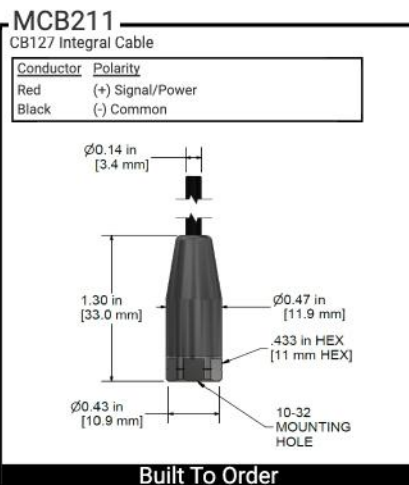
High Frequency, Lightweight, Cost Effective Molded Sensor, Top Exit
Molded Integral Cable, 10-32 Mounting, 10 mV/g, ±10%

VIBRATION ANALYSIS HARDWARE



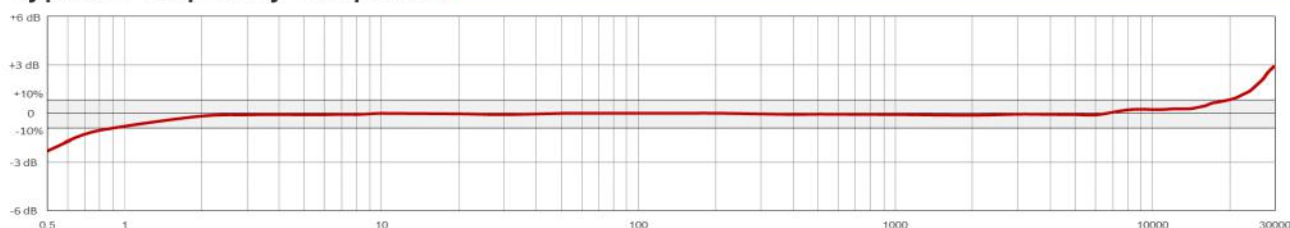
Product Features

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



Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MCB211	MCB221	Environmental		
Sensitivity (±10%)		10 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-1,800,000 CPM	0.5 Hz-30 kHz	Maximum Shock Protection		10,000 g, peak
Frequency Response (±10%)	60-900,000 CPM	1 Hz-15 kHz	Electromagnetic Sensitivity		CE Approved
Frequency Response (±5%)	120-600,000 CPM	2 Hz-10 kHz	Sealing		IP68
Dynamic Range		± 500 g, peak	SIL Rating		SIL 2
Electrical			Physical		
Settling Time		< 2 Seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		18-30 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		2-10 mA	Weight	0.35 oz	10 grams
Spectral Noise @ 10 Hz		100 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Base		316L Stainless Steel
Spectral Noise @ 100 Hz		19 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Thread		10-32 UNF
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 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



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MEB211 Series



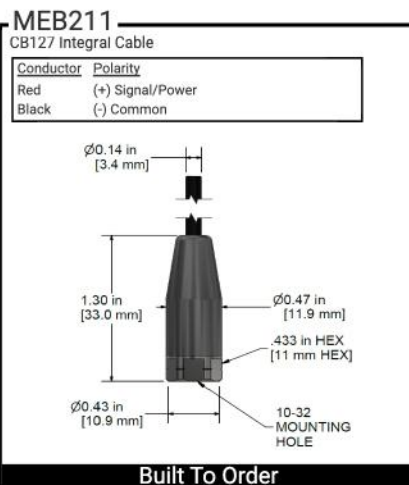
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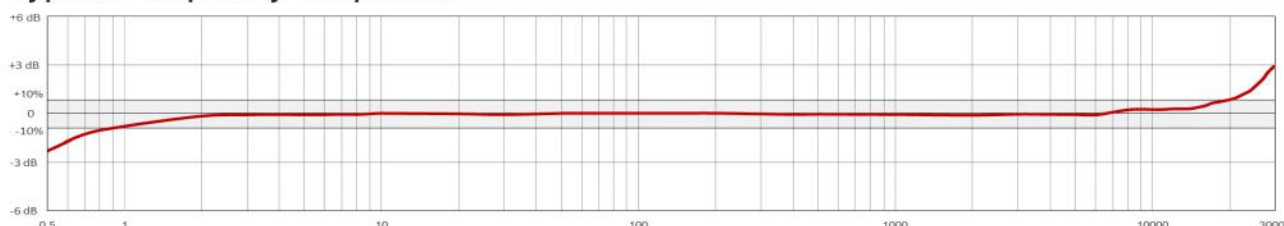
Product Features

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



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Part Number	MEB211	M/MEB211	Environmental		
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Spectral Noise @ 100 Hz	4 µg/√Hz		Mounting Thread	10-32 UNF	
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