

UEA334 Series

Low Cost, Dynamic Vibration IEPE Ultrasound Sensor, 1/4-28 Mounting, Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



Product Features

High Frequency Ultrasound Accelerometer

High Amplitude Resonance Peak for Stress Wave Measurement Techniques

- ▶ For use with MH149-1A Magnet & MH130-4A Mounting Target

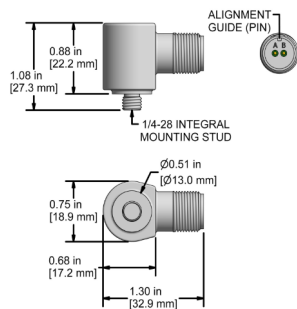
- ▶ IEPE Amplifier Technology

- ▶ 2 Pin Mini-MIL Connection or Integral Cable
Note: Integral Cable Options are only for Permanent Monitoring Applications

UEA334

2 Pin Connector

Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common

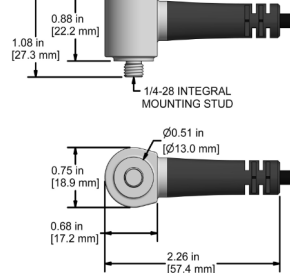


Stock Product

UEA434

Molded Integral Cable

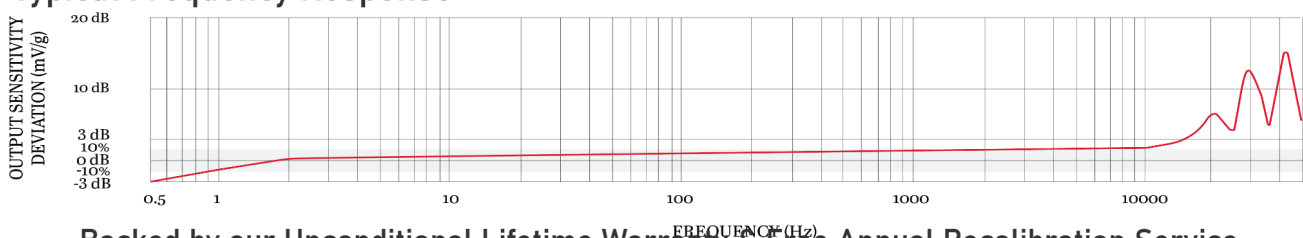
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	UEA334		Environmental		
Sensitivity (±15%)		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-1,020,000 CPM	1 Hz - 17 kHz	Maximum Shock Protection		10,000g, peak
Frequency Response (±10%)	120-600,000 CPM	2 Hz - 10 kHz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80g, peak *Vsource ≥ 22V, 12Vbias	Sealing		Welded, Hermetic
Peak Sensitivity		+21 dB ± 2 dB	Physical		
Electrical			Sensing Element		PZT Ceramic
Settling Time		< 2 Seconds	Sensing Structure		Shear Mode
Voltage Source (IEPE)		18-30 VDC	Weight	1.5 oz	43 grams
Constant Current Excitation		2-10 mA	Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz		30 µg/√Hz	Mounting Thread		1/4-28 Integral Stud
Spectral Noise @ 100 Hz		4 µg/√Hz	Connector (Non-Integral)		2 Pin mini-MIL, J Series Connector
Spectral Noise @ 1000 Hz		2 µg/√Hz	Resonant Frequency	520,000 CPM ±12,000 CPM	42 kHz ±2kHz
Output Impedance		< 100 ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage		10-14 VDC	Calibration Certificate		CA10
Case Isolation		> 10 ⁸ ohm			

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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