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

CE

Product Features

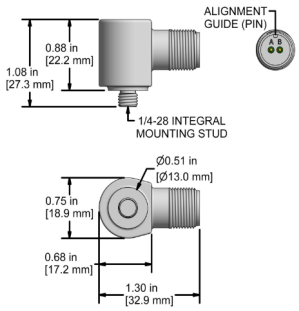
High Frequency Ultrasound Accelerometer

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

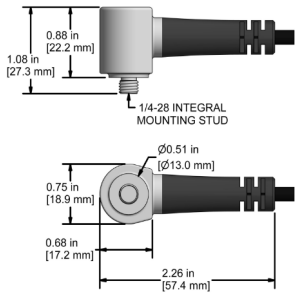
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

UEA434
Molded Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	UEA334	
Sensitivity (±15%)	100 mV/g	
Frequency Response (±3dB)	60-1,020,000 CPM	1 Hz - 17 kHz
Frequency Response (±10%)	120-600,000 CPM	2 Hz - 10 kHz
Dynamic Range	± 80g, peak *Vsource ≥ 22V, 12Vbias	
Peak Sensitivity	+21 dB ± 2 dB	
Electrical		
Settling Time	< 2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	30 µg/√Hz	
Spectral Noise @ 100 Hz	4 µg/√Hz	
Spectral Noise @ 1000 Hz	2 µg/√Hz	
Output Impedance	< 100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	> 10^8 ohm	

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	10,000g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	1.5 oz	43 grams
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28 Integral Stud	
Connector (Non-Integral)	2 Pin mini-MIL, J Series Connector	
	520,000	