

# UEB334 Series



VIBRATION ANALYSIS HARDWARE

Low Cost, Dynamic Vibration IEPE Ultrasound Sensor, 1/4-28 Mounting, Top Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±20%



## Product Features

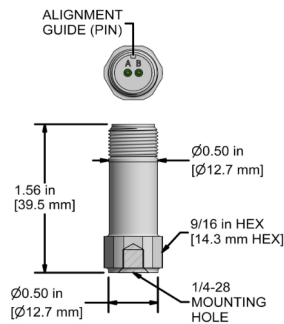
### High Frequency Ultrasound Accelerometer

- ▶ High Amplitude Resonance Peak for Stress Wave Measurement Techniques
- ▶ IEPE Amplifier Technology
- ▶ 2 Pin Mini-MIL Connection or Integral Cable  
Note: Integral Cable Options are only for Permanent Monitoring Applications

### UEB334

2 Pin Connector

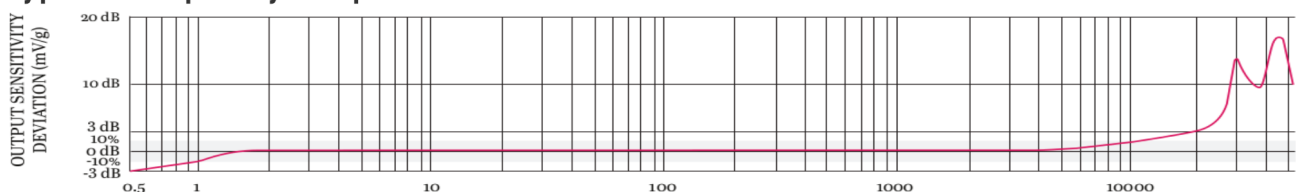
| Connector Pin | Polarity         |
|---------------|------------------|
| A             | (+) Signal/Power |
| B             | (-) Common       |



Stock Product

| Specifications              | Standard         | Metric                | Specifications              | Standard                  | Metric                             |
|-----------------------------|------------------|-----------------------|-----------------------------|---------------------------|------------------------------------|
| Part Number                 | UEB334           | M/UEB334              | <b>Environmental</b>        |                           |                                    |
| Sensitivity (±20%)          |                  | 100 mV/g              | Temperature Range           | -58 to 250°F              | -50 to 121°C                       |
| Frequency Response (±3dB)   | 30-1,380,000 CPM | 0.5 Hz-23 kHz         | Maximum Shock Protection    |                           | 10,000g, peak                      |
| Frequency Response (±10%)   | 60-600,000 CPM   | 1 Hz-10 kHz           | Electromagnetic Sensitivity |                           | CE                                 |
| Dynamic Range               |                  | ± 50g, peak           | Sealing                     |                           | Welded, Hermetic                   |
| Peak Sensitivity            |                  | +21 dB ± 2 dB         | SIL Rating                  |                           | SIL 2                              |
| <b>Electrical</b>           |                  |                       | <b>Physical</b>             |                           |                                    |
| 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                      | 0.7 oz                    | 20 g                               |
| Spectral Noise @ 10 Hz      |                  | 30 µg/√Hz             | Case Material               |                           | 316L Stainless Steel               |
| Spectral Noise @ 100 Hz     |                  | 4 µg/√Hz              | Mounting                    |                           | 1/4-28 UNF                         |
| Spectral Noise @ 1000 Hz    |                  | 2 µg/√Hz              | Connector (Non-Integral)    |                           | 2 Pin mini-MIL, J Series Connector |
| Output Impedance            |                  | < 100 ohm             | Resonant Frequency          | 2,520,000 CPM ±12,000 CPM | 42 kHz ±2kHz                       |
| Bias Output Voltage         |                  | 10-14 VDC             | Mounting Torque             | 2 to 5 ft. lbs.           | 2,7 to 6,8 Nm                      |
| Case Isolation              |                  | > 10 <sup>8</sup> ohm | Mounting Hardware           | 1/4-28 Stud               | M6x1 Adapter Stud                  |
|                             |                  |                       | Calibration Certificate     |                           | CA10                               |

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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