**Model Number**
3133A1

**PERFORMANCE SPECIFICATION**

- **ULTRA MINIATURE SIZE**
- **HIGH SENSITIVITY**
- **IDEAL LOW FREQUENCY RESPONSE**

### PHYSICAL

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>SI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (oz)</td>
<td>0.03</td>
</tr>
<tr>
<td>Width (inch)</td>
<td>0.24</td>
</tr>
<tr>
<td>Height (inch)</td>
<td>0.24</td>
</tr>
<tr>
<td>Mounting</td>
<td>Adhesive</td>
</tr>
<tr>
<td>Integral Cable Length (ft)</td>
<td>3</td>
</tr>
<tr>
<td>Type</td>
<td>TFE</td>
</tr>
<tr>
<td>Housing Material</td>
<td>Titanium</td>
</tr>
<tr>
<td>Sensing Element Material</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Sensing Element Mode</td>
<td>Shear</td>
</tr>
</tbody>
</table>

### PERFORMANCE

- **Sensitivity (mV/g)**: 10 mV/m/s², 1.02 mV/m/s²
- **Acceleration Range (Gpeak)**: 500 m/s², 4905 m/s²
- **Frequency Range, ±5% (Hz)**: 0.3 to 6000 Hz, 0.3 to 6000 Hz
- **Frequency Range, ±10% (Hz)**: 0.25 to 10000 Hz, 0.25 to 10000 Hz
- **Linearity (±1% F.S.)**: 1%, 1%
- **Resonance Frequency (kHz)**: >35 kHz, >35 kHz
- **Transverse Sensitivity (%)**: 6%, 6%
- **Bias Voltage (VDC)**: +8 to +10 VDC, +8 to +10 VDC
- **Output Impedance (Ω)**: 100 Ω, 100 Ω
- **Noise floor (Grms)**: 0.02 m/s², 0.20 m/s²
- **Discharge Time Constant (seconds)**: 1.0 to 2.5 seconds, 1.0 to 2.5 seconds
- **Spectral Noise (µGrms/sqr(Hz))**:
  - 1Hz: 4000 µ/s²/sqr(Hz), 39240 µ/s²/sqr(Hz)
  - 10Hz: 2000 µ/s²/sqr(Hz), 19620 µ/s²/sqr(Hz)
  - 100Hz: 500 µ/s²/sqr(Hz), 4905 µ/s²/sqr(Hz)
  - 1000Hz: 200 µ/s²/sqr(Hz), 1962 µ/s²/sqr(Hz)
  - 10000Hz: 90 µ/s²/sqr(Hz), 883 µ/s²/sqr(Hz)

### ENVIRONMENTAL

- **Shock (Gpeak)**: 3000 m/s², 29430 m/s²
- **Operating Temperature (°F)**: -67 to +320 °F, -67 to +320 °C
- **Seal**: Epoxy
- **Magnetic Sensitivity at 100 Gauss (g/Gauss)**: 0.00004 m/s²/Gauss, 0.00039 m/s²/Gauss
- **Base Strain Sensitivity (g/µε)**: 0.15 m/s²/µε, 1.47 m/s²/µε

### POWER

- **Compliance Voltage (VDC)**: +18 to +30 VDC, +18 to +30 VDC
- **Current Range (mA)**: 2 to 20 mA, 2 to 20 mA

### Notes:

1. Measured at 100 Hz, 10 Grms
2. Actual sensitivity is given on a calibration certificate
3. Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier
4. Measured using zero-based straight line method, % of F.S. or any lesser range.

Please, refer to the performance specifications of the products in this family for detailed description.

**Supplied Accessories:**

1. Model 6298 small petro wax
2. Model 6741 removal tool
3. Accredited calibration certificate (ISO 17025)

**Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3133A for more information.**