4. HOUSING/CONNECTOR MATERIAL: TITANIUM

3 MATES WITH 6893AXX CABLE

2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT

1. WEIGHT: 2.8 GRAMS

NOTES: UNLESS OTHERWISE SPECIFIED
This family also includes:

- **ULTRA LOW FREQUENCY RESPONSE**
- **ULTRA LOW NOISE LEVEL**
- **WEIGHT ONLY 2.3 GRAMS**

### PHYSICAL

<table>
<thead>
<tr>
<th></th>
<th>ENGLISH</th>
<th>SI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.08 oz</td>
<td>2.3 grams</td>
</tr>
<tr>
<td>Mounting</td>
<td>Adhesive</td>
<td>Adhesive</td>
</tr>
<tr>
<td>Connector [1]</td>
<td>4-pin</td>
<td>4-pin</td>
</tr>
<tr>
<td>Material</td>
<td>Ti-6 AL-4V</td>
<td>Ti-6 AL-4V</td>
</tr>
<tr>
<td>Housing</td>
<td>Ti-6 AL-4V</td>
<td>Ti-6 AL-4V</td>
</tr>
<tr>
<td>Isolation</td>
<td>Case ground</td>
<td>Case ground</td>
</tr>
<tr>
<td>Sensing Element</td>
<td>Ceramic</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Mode</td>
<td>Shear</td>
<td>Shear</td>
</tr>
</tbody>
</table>

### PERFORMANCE

- **Sensitivity, +15/-10% [2]**
  - 10 mV/g
  - 1.02 mV/m/s²

- **Acceleration Range**
  - +500 Gpeak
  - +/- 4905 m/s² peak

- **Frequency Range, +15/-10%**
  - 31-10,000 Hz
  - 31-10,000 Hz

- **Resonance Frequency**
  - >24 kHz

- **Linearity [3]**
  - 1 %F.S.
  - 1 %F.S.

- **Transverse Sensitivity Max**
  - 6 %
  - 6 %

- **Noise floor**
  - 0.0012 Grms
  - 0.012 µm/s² rms

- **Spectral Noise**
  - 1 Hz
    - 335 µGrms/sqr(Hz)
    - 3286 µµm/s² rms/sqr(Hz)
  - 10 Hz
    - 58 µGrms/sqr(Hz)
    - 666 µµm/s² rms/sqr(Hz)
  - 100 Hz
    - 36 µGrms/sqr(Hz)
    - 348 µµm/s² rms/sqr(Hz)
  - 1000 Hz
    - 17 µGrms/sqr(Hz)
    - 164 µµm/s² rms/sqr(Hz)
  - 10000 Hz
    - 9 µGrms/sqr(Hz)
    - 83 µµm/s² rms/sqr(Hz)

### ELECTRICAL

- **Supply Current Range [4]**
  - 2 to 20 mA

- **Compliance Voltage Range**
  - +18 to +30 VDC
  - +18 to +30 VDC

- **Output Impedance, Typ.**
  - 100 Ω
  - 100 Ω

- **Output Bias Voltage**
  - 11 to 13 VDC
  - 11 to 13 VDC

- **Discharge Time Constant**
  - 0.8 - 1.2 sec
  - 0.8 - 1.2 sec

### ENVIRONMENTAL

- **Shock Max**
  - 5000 g pk
  - 49050 m/s²

- **Vibration Max**
  - 3000 g pk
  - 29430 m/s²

- **Operating Temperature**
  - -60 to +250 °F
  - -51 to +121 °C

- **Seal**
  - Hermetic

- **Magnetic Sensitivity at 100 Gauss**
  - 0.00007 g/Gauss
  - 0.00069 m/s²/Gauss

- **Base Strain Sensitivity**
  - 0.02 g/µε
  - 0.20 m/s²/µε

### Additional Information

- **Spectral Noise**
  - 10 Hz
    - 58 µGrms/sqr(Hz)
    - 566 µµm/s² rms/sqr(Hz)
  - 100 Hz
    - 36 µGrms/sqr(Hz)
    - 348 µµm/s² rms/sqr(Hz)
  - 1000 Hz
    - 17 µGrms/sqr(Hz)
    - 164 µµm/s² rms/sqr(Hz)
  - 10000 Hz
    - 9 µGrms/sqr(Hz)
    - 83 µµm/s² rms/sqr(Hz)

### Notes:

- [1] Accredited calibration certificate (ISO 17025)
- [2] Measured at 100Hz, 5 Grms per ISA RP 37.2.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.

### Specified Accessories:

- [1] Coaxial, M4.5 X 0.35 Connector. Mates with Dytran cable Model 6893AXX
- [2] Measured at 100Hz, 5 Grms per ISA RP 37.2.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.

Refer to the performance specifications of the products in this family for detailed description.