A unique, single-crystal, planar shear charge mode sensing element mounted in a miniature hermetically sealed Inconel™ housing enables Model 3316C2 to operate at extremely high temperatures over long periods of time. Its small size makes it ideal for use in locations inaccessible to larger types of high temperature accelerometers. Designed with our patented Silver Window™ technology which allows a diffused oxygen molecule to pass through at high temperatures, replenishing oxygen to the crystal while maintaining the hermetic seal integrity. This innovative feature assures continued high temperature operation with minimal loss of insulation resistance due to oxygen deprivation.
**PRODUCT SPECIFICATIONS**

**PHYSICAL**
- Weight, Max.: 0.46 oz, 13 grams
- Mounting Provision: Tapped Hole
- Material Housing: Alloy 600, Alloy X-750
- Connector: Single Crystal
- Element Style Material: Planar Shear
- Type: Planar Shear

**PERFORMANCE**
- Sensitivity [1]: 1 to 2 pC/g, 0.10 to 0.20 pC/m/s²
- Frequency Range, ±5%: [4] to 5000 kHz
- Resonant Frequency: > 17 kHz
- Capacitance: 120 pF
- Linearity [2]: ± 1% % F.S.
- Maximum Transverse Sensitivity: 5 %
- Base Strain Sensitivity, Max.: 0.0005 g/µε
- Insulation Resistance, (Connector pin to case): at 75°F > 1.0 MO, at 1000°F > 0.25 MO
- Insulation Resistance (Case to Base): at 75°F > 10 MO, at 1000°F > 1.0 MO
- Ground Isolation: Base Isolated
- Output Polarity: Negative

**ENVIRONMENTAL**
- Maximum Vibration: ±6000 m/s², peak
- Maximum Shock: ±10000 G, peak
- Temperature Range: -60 to +1000 °F
- Seal: Hermetic
- Radiation Exposure Limit (Integrated Neutron Flux): 1.0E+10 N/cm²
- Radiation Exposure Limit (Integrated Gamma Flux): 1.0E+08 rad
- G, peak: ±58860 m/s², peak
- G, peak: ±98100 m/s², peak

**TYPICAL RESPONSE GRAPHS**

**TYPICAL LOW FREQUENCY RESPONSE**
Dependent upon charge amplifier specifications and sensor insulation resistance

**TYPICAL TEMPERATURE RESPONSE**

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