1. **Weight:** 1.3 grams max, less cable. 
2. **Housing Material:** Titanium Alloy. 
3. **Arrows Indicate Direction of Acceleration for Positive Output:** For best frequency response, prepare a flat mounting surface of at least 0.39 flat to 0.001 TIR. Apply one drop of cyanoacrylate adhesive to mount the accelerometer. 
4. **Removal Tool:** Model 6741, included. 
5. **Cable is Low Out-Gassing Per NASA Specifications of TML (Total Mass Loss) Less Than 1%; and CVCM (Collected Volatile Condensable Mass) Less Than 0.1%:** Part No: 3133DXT-XX (where applicable, -XX denotes length in feet). See Table for Length Tolerance. 
6. **Dimension and Tolerance:** Dimensions are in inches. Interpret dimensions and tolerances per ASME Y14.5M 1994 Decimal. 
7. **Approvals:** 
   - **Origi:** AB 11/15/13 
   - **Chk:** LN 12/22/15 
   - **App:** AS 12/23/15 
   - **Date:** 12/23/15 
   - **Size:** B 
   - **Cage Code:** 2W033 
   - **DWG No:** 127-3133DT 
   - **Rev:** G 
   - **Sheet:** 1 of 1 

**Note:** Unless otherwise specified.
### Physical
- **Weight**: 0.03 oz, 0.8 grams
- **Mounting Adhesive**
- **Connector Type**: 4-pin
- **Housing Material**: Titanium
- **Isolation**: Case Ground
- **Sensing Element Material**: Quartz
- **Mode**: Shear

### Performance
- **Sensitivity**: 2.0 mV/g, 0.20 mV/m/s²
- **Acceleration Range**: 2,500 Gpeak
- **Frequency Range**: 0.7 to 6000 Hz
- **Resonance Frequency**: >27 kHz
- **Linearity**: ± 1 % F.S.
- **Transverse Sensitivity**: 6 %
- **Output Impedance**: 100 Ω
- **Noise floor, Max.**: 0.15 Grms, 1.47 m/s² rms

### Environmental
- **Maximum Shock**: 4,000 Gpeak
- **Operating Temperature**: -67 to +320 °F
- **TEDS Operating Temperature**: -40 to +185 °C
- **Seal**: Hermetic
- **Magnetic Sensitivity at 100 Gauss**: 0.0002 g/Gauss
- **Base Strain Sensitivity**: 0.001 g/µε

### Electrical
- **Compliance Voltage**: +18 to +30 VDC
- **Current Range**: 2 to 20 mA
- **Bias Voltage**: +7 to +10 VDC
- **Discharge Time Constant**: 0.5 to 2.5 seconds
- **Output Impedance**: 100 Ω
- **TEDS Feature**: IEEE 1451.4

### Specifications
- **Model Number**: 3133D2T-XX
- **Model**: 3133D1T-XX
- **Model Range (Gpeak)**: 500
- **Resolution (Grms)**: 0.02
- **Oper. Temp(°F)**: -67 to 320
- **TC**: 1.1 to 2.5

### Notes
1. Measured at 100 Hz, 10 Grms
2. Actual sensitivity is given on a calibration certificate
3. Measured using zero-based straight line method, % of F.S. or any lesser range.
4. Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier
5. In the interest of constant product improvement, we reserve the rights to change the specifications without notice. It is the customer’s responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer’s technical experts.