1. LOW OUTGASSING. SEE TABLE FOR 4 WIRE CABLE SPECIFICATIONS.

2. HOUSING MATERIAL: TITANIUM ALLOY. ISOLATION BASE: ANODIZED ALUMINUM.

3. WEIGHT: 1.3 GRAMS MAX, LESS CABLE.

4. ARROWS INDICATE DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.

5. DYTRAN MODEL 6298 PETRO MOUNTING WAX AND MODEL 6981 REMOVAL TOOL, SUPPLIED.

6. FOR BEST FREQUENCY RESPONSE, PREPARE A FLAT MOUNTING SURFACE OF AT LEAST Ø.39, FLAT TO .001 TIR. APPLY ONE DROP OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.

7. MOUNTING SURFACE. GROUND ISOLATED MOUNTING BASE PERMANENTLY ATTACHED.

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED, INTERPRET DIMENSIONS AND TOLERANCES AS SHOWN PER ASME Y14.5-1994. REMOVE BURRS. COUNTERSINK INTERNAL THD SO" TO MAJOR DIA., CHAM EXT THDS 45'TO MINOR DIA. THREAD LENGTHS AND DEPTHS ARE FOR MIN THDS. DIMENSIONS APPLY AFTER FINISHING. TOTAL MOUNTING WAX 0.05. BREAK SHARP EDGES R50 TO R.010. MACHINED FILLET RADIUS 0.01 TO 0.02. RADIUS OF ALL MACHINED SURFACES 0.01. ABBREVIATIONS PER MIL-STD-12.
**ULTRA MINIATURE SIZE**
**IDEAL LOW FREQUENCY RESPONSE**
**LOW BASE STRAIN SENSITIVITY**
**TEDS FEATURE**
**GROUND ISOLATION**
**LOW OUTGASSING**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>ENGLISH</th>
<th>SI</th>
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<tbody>
<tr>
<td>3133D16T</td>
<td>0.05 oz</td>
<td>1.3 grams</td>
</tr>
</tbody>
</table>

**Supplied Accessories:**
1. Model 6298 small petro wax
2. Model 6981 removal tool
3. Accredited calibration certificate (ISO 17025)

**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 internal 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 over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer’s technical experts.

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**PHYSICAL**

Weight 0.05 oz 1.3 grams
Mounting Adhesive Adhesive
Integral Cable Length 3 ft 914 mm
Connector Type 4-pin 4-pin
Housing Material Titanium Titanium
Isolation Cup Material Anodized Al Anodized Al
Sensing Element Material Quartz Quartz
Mode Shear Shear

**PERFORMANCE**

Sensitivity (mV/g) 0.7 mV/g 0.071 mV/m/s²
Acceleration Range 5.000 Gpeak 49050 m/s² peak
Frequency Range, ±5% 0.7 to 6000 Hz 0.7 to 6000 Hz
Frequency Range, ±10% 0.7 to 10000 Hz 0.7 to 10000 Hz
Linearity [%] ± 1 % F.S. ± 1 % F.S.
Resonance Frequency >27 kHz >27 kHz
Transverse Sensitivity % 6 % 6 %
Output Impedance Ω 100 100 Ω
Noise floor, Max. Grms 0.30 2.94 m/s² rms

**ENVIRONMENTAL**

Maximum Shock 7,000 Gpeak 68670 m/s²
Maximum Vibration 6,000 Gpeak 58860 m/s²
Operating Temperature -67 to +320 °F -55 to 160 °C
TEDS Operating Temperature -40 to +185 °F -40 to +85 °C
Seal Hermetic Hermetic
Magnetic Sensitivity at 100 Gauss 0.0002 g/Gauss 0.002 m/s²/Gauss
Base Strain Sensitivity 0.001 g/µε 0.01 m/s²/µε

**ELECTRICAL**

Compliance Voltage +18 to +30 VDC +18 to +30 VDC
Current Range [mA] 2 to 20 mA 2 to 20 mA
Case Isolation, Min. 10 GΩ 10 GΩ
Bias Voltage +7 to +10 VDC +7 to +10 VDC
Discharge Time Constant 0.5 to 2.5 seconds 0.5 to 2.5 seconds
Output Impedance Ω 100 100 Ω
TEDS Feature IEEE 1451.4 IEEE 1451.4

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