

***Vibration & Shock**

***Small Size, Lightweight (2.7 Gm)**

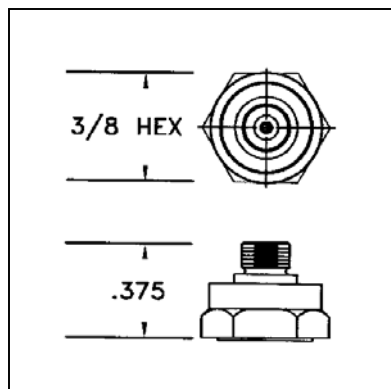
***Sensitivity 3.5 pC/g**

***Low Base Strain Sensitivity**

***Case Grounded**

The Model 7001 and 7001HT Piezoelectric Accelerometers are excellent choices for general-purpose shock and vibration measurement work, and are especially well suited for testing of small specimens. They are designed for the measurement of medium frequency, moderate to high-level shock and vibration.

These units incorporate a unique, inverted ring-shear crystal mass assembly within a stainless steel body to provide a reliable sensor that is insensitive to environmental inputs such as base bending and thermal transients. Signal ground is connected to the outer case of the unit. The Model 7001HT will operate in environments up to +500 Deg F. **Consult the factory for customized versions of these sensors.**



Specifications

	7001 & 7001-HT
Transfer / Electrical	
Charge Sensitivity ¹	3.5 +/-0.5 pC/g
Capacitance	250 +/-50 pF
Frequency Linearity ²	+/-5% Max 2 Hz To 5,000 Hz
Mounted Resonant Frequency	25 KHz, Nom.
Transverse Sensitivity	5% Max
Amplitude Linearity	+/-1.0% (BFSL) / 300 g
Insulation Resistance	20,000 M Ohm Min, 50 VDC Test
Isolation Resistance	0 (Case Grounded)
Environmental	
Vibration Limit	1,000 g Max (Sine)
Shock Limit	2,000 g Max
Temperature Range	
Models 7001	-65 To +350 Deg F (-55 To +175 Deg C)
Models 7001-HT	-65 To +500 Deg F (-55 To +260 Deg C)
Humidity ³	0 To 98% R.H. (Non-Condensing)
Base Strain Sensitivity	0.003 g/uE Equiv, Typical
Electromagnetic Sensitivity	0.01 g (Equiv / 100 Gauss)
Physical	
Configuration	Inverted Ring Shear
Size	0.375 In. Hex x 0.375 In. H (9.5 mm Hex x 9.5 mm H)
Weight	0.1 Oz (2.7 Gm)
Case Material	18-8 Stainless Steel
Electrical Interface	Coaxial 10-32 Thread
Mounting	Adhesive Mount (Flat Base)

NOTES:

¹ At +75 Deg F, 10g Peak, 100Hz; Lower Frequency Limit is Determined by Associated Electronics

² Referenced to Sensitivity @ 100 Hz.

³ With Connector Protected or Sealed, Unit is Epoxy Sealed

Accessories Supplied:

- (1) Miniature Cable Assembly, LNHT-3'
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.