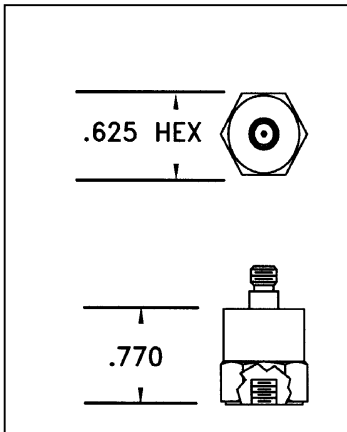


**Models 3025 & 3025-HT  
3026 & 3026-HT  
3027 & 3027-HT**

- \*Vibration & Shock**
- \*Choice of Sensitivities**
- \*Top Connector**
- \*Case Grounded**
- \*10-32 Mounting Stud**

The Models 3025, 3026 and 3027 Piezoelectric Accelerometers are offered in a choice of sensitivities for general vibration and shock work. The internal construction of the piezoelectric seismic system ensures that the units have no discernible spurious response to mounting torque, body strains, cable vibration, cable whip, pressure variations and most heat transients.

The sensors' stainless steel housing provides an environmentally rugged unit, while the epoxy seal offers protection against industrial environments. Its grounded case construction provides tight mechanical coupling which yields accurate, wideband shock and vibration data. These accelerometers feature a 10-32 top connector and are provided with a 10' low-noise coaxial cable. High temperature units will operate in environments up to +500 Deg. F. *Consult the factory for customized versions of these sensors.*



**Specifications**

| <b>Transfer / Electrical</b>     | <b>3025 &amp; 3025HT</b>      | <b>3026 &amp; 3026HT</b>      | <b>3027 &amp; 3027HT</b>       |
|----------------------------------|-------------------------------|-------------------------------|--------------------------------|
| Charge Sensitivity <sup>1</sup>  | 60 +/-10 pC/g                 | 35 +/-5 pC/g                  | 15 +/-3 pC/g                   |
| Capacitance                      | 725 +/-60 pF                  | 650 +/-60 pF                  | 650 +/-60 pF                   |
| Frequency Linearity <sup>2</sup> | +/-5% Max<br>1 Hz To 5,000 Hz | +/-5% Max<br>1 Hz To 7,000 Hz | +/-5% Max<br>1 Hz To 10,000 Hz |
| Mounted Resonant Frequency       | 25 KHz, Min.                  | 35 KHz, Min.                  | 50 KHz, Min.                   |
| Transverse Sensitivity           | 5% Max                        |                               |                                |
| Amplitude Linearity              | +/-1.0% (BFSL) / 300g         |                               | +/-1.0% (BFSL) / 1,000g        |
| 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  | 5,000 g Max | 10,000 g Max |
| Temperature Range           | Models 3025, 3026, 3027<br>-100 To +350 Deg F (-73 To +175 Deg C)<br>Models 3025HT 3026HT 3027HT<br>-100 To +500 Deg F (-73 To +260 Deg C) |             |              |
| Humidity <sup>3</sup>       | 0 To 95% R.H. (Non-Condensing)   |             |              |
| Base Strain Sensitivity     | 0.008 g/uE Equiv, Typical  |             |              |
| Electromagnetic Sensitivity | 0.02 g (Equiv / 100 Gauss)   |             |              |

**Physical**

|                      |  |                |                |
|----------------------|--|----------------|----------------|
| Configuration        | Single Ended Compression                               |                |                |
| Size                 | 0.625 In. Hex. x 0.770 In. H (15.9 mm Hex x 19.6 mm H) |                |                |
| Weight               | 1.0 Oz (28 Gm)   | 0.8 Oz (23 Gm) | 0.7 Oz (21 Gm) |
| Case Material        | 18-8 Stainless Steel                                   |                |                |
| Electrical Interface | Coaxial 10-32 Thread                                   |                |                |
| Mounting             | 10-32 Tapped Base                                      |                |                |

**NOTES:**

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

<sup>2</sup> Referenced to Sensitivity @ 100 Hz.

<sup>3</sup> With Connector Protected or Sealed, Unit is Epoxy Sealed

**Accessories Supplied:**

- (1) Miniature Cable Assy, LNHT-10'
- (1) 10-32 x 0.375"L Mounting Stud, St. Stl.
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.