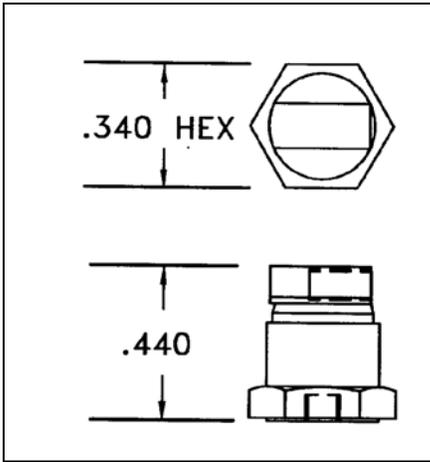


- *Vibration & Shock
- *Sensitivities 0.5 pC/g & 1.5 pC/g
- *Frequency Response to 20KHz
- *Low Base Strain Sensitivity
- *Detachable Micro-Cable Assy.
- *Electrical Isolation

The Model 6064 and 6066 Piezoelectric Accelerometers are excellent general-purpose shock and vibration measurement sensors, where small size and low mass, permits their use on small, lightweight specimens. They are designed for the measurement of wideband, moderate to high-level shock and vibration. The sensors incorporate an inverted 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.

The sensors' double-wall, electrically isolated construction provides additional isolation from metallic structures, which aids in acquiring accurate, wideband shock and vibration data uncorrupted by electrical ground loop currents. The units are supplied with Columbia's exclusive micro-miniature detachable cable and connector assemblies. High temperature units will operate in environments up to +500 Deg. F. *Consult the factory for customized versions of these sensors.*



Accessories Supplied:

- (1) Micro-miniature Cable Assy., MMHR-6"
- (1) Miniature Cable Assembly, LNHT-3'
- (1) Microdot™ 10-32 Coupler (F/F)
- (1) 4-48 x 0.25"L Mounting Stud
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.

Specifications

Transfer / Electrical	6064 & 6064-HT	6066 & 6066-HT
Charge Sensitivity ¹	1.7 +/-0.70 pC/g	0.5 +/-0.35 pC/g
Capacitance	300 +/-100 pF	
Frequency Linearity ²	+/-5% Max 2 Hz To 10,000 Hz	+/-5% Max 2 Hz To 20,000 Hz
Mounted Resonant Frequency	50 KHz, Nom.	100 KHz, Nom.
Transverse Sensitivity	5% Max	
Amplitude Linearity	+/-1.0% (BFSL) / 1,000 g	+/-1.0% (BFSL) / 5,000 g
Insulation Resistance	20,000 M Ohm Min, 50 VDC Test	
Isolation Resistance	100M Ohm Min.	
Environmental		
Vibration Limit	1,000 g Max (Sine)	
Shock Limit	5,000 g Max, 0.50 mSec	50,000 g Max, 0.50 mSec
Temperature Range	-100 To +350 Deg F (-73 To +175 Deg C)	
Models 6064 & 6066	-100 To +350 Deg F (-73 To +175 Deg C)	
Models 6064-HT & 6066-HT	-100 To +500 Deg F (-73 To +260 Deg C)	
Humidity ³	0 To 98% R.H. (Non-Condensing)	
Base Strain Sensitivity	0.005 g/uE Equiv, Typical	
Electromagnetic Sensitivity	0.01 g (Equiv / 100 Gauss)	
Physical		
Configuration	Inverted Ring Shear	
Size	0.340 In. Hex x 0.440 In. H (8.7 mm Hex x 11.2 mm H)	
Weight	0.13 Oz (3.5 Gm)	0.10 Oz (2.8 Gm)
Case Material	18-8 Stainless Steel	
Electrical Interface	Miniature 2-56 Connector	
Mounting	4-48 Tapped Base / Adhesive Mount	

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

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