

***Vibration & Shock**

***Sensitivities 0.5 pC/G & 1.5 pC/g**

***Frequency Response to 20KHz**

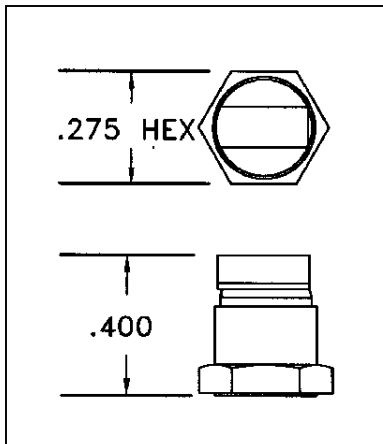
***Low Base Strain Sensitivity**

***Detachable Micro-Cable Assy.**

***Stud or Adhesive Mounting**

The Model 6063 and 6065 Piezoelectric Accelerometers are excellent choices for general-purpose shock and vibration measurement work, 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 reliable sensors that are insensitive to environmental inputs such as base bending and thermal transients. Signal ground is connected to the outer case of the units. These accelerometers 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.*



Specifications

Transfer / Electrical	6063 & 6063-HT	6065 & 6065-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	0 (Case Grounded)	

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	Models 6063 & 6065: -100 To +350 Deg F (-73 To +175 Deg C) Models 6063-HT & 6065-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)	
Acoustic Sensitivity	0.01 g RMS (Equiv @ 150 dB SPL)	

Physical

Configuration	Inverted Ring Shear	
Size	0.275 In. Hex x 0.400 In. H (7.0 mm Hex x 10.2 mm H)	
Weight	0.13 Oz (3.5 Gm)	0.07 Oz (2 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

R62706

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 (Models 6063 & 6063-HT Only)
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.