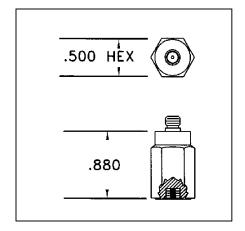
Columbia Research Laboratories, Inc.

Integrated Accelerometers

Models 8011 & 8012

- *Vibration & Shock
- *Low Impedance Output
- *Sensitivities 1 mV/g & 0.25 mV/g
- *Low Base Strain Sensitivity
- *Electrical Isolation
- *Hermetically Sealed





Accessories Supplied:

- (1) Miniature Cable Assembly, LNHT-3 Ft.
- (1) 10-32 x 0.380"L Mounting Stud, St. Stl.
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.

The Models 8011 and 8012 Piezoelectric Accelerometers are designed for the measurement of high frequency, moderate to high-level shock and vibration. They incorporate a hybrid electronic assembly within a rugged, welded, double-wall stainless steel body to enhance operation in humid and dirty environments.

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 sensor module is bonded into the outer stainless steel body with a high temperature, glass-filled polymer insulator. Low impedance output of 100 ohms or less allows operation directly into standard readout equipment without auxiliary signal conditioning, and is capable of driving up to 500 feet of shielded cable. *Consult the factory for customized versions of these sensors.*

Specifications

8011	8012
1 mv/a +/-10%	0.25 mv/g +/-10%
	+/-20,000 g Peak
· •	+/-5% Max, 2 Hz To 15,000 Hz
50KHz, Nom.	75KHz, Nom.
<5%	
+/-1.0% (BFSL) / 1,000 g	
0.04 g Equiv., Nom.	
0.03% / Deg F	
10 VDC	
100 Ohms Max.	
100M Ohm Min.	
2 To 10 mA DC Constant Current with 12 To 30 VDC Compliance	
1,000 g	2,000 g
5,000 g	20,000 g
-65 To +250 Deg F	(-54 To +121 Deg C)
0 To 100% R.H.	
0.02 g/uE Equiv, Typical	
0.01 g (Equiv / 100 Gauss)	
0.05 g RMS (Equi	v @ 124 dB SPL)
Ring Shear	
0.500 In. Hex. x 0.880 In. H (12.7 mm Hex x 22.4 mm H)	
0.6 Oz (17 Gm)	
18-8 Stainless Steel	
Coaxial 10-32 Thread	
Coaxiai io	oz mioda
	1 mv/g +/-10% +/-5,000 g Peak +/-5% Max, 2 Hz To 10,000 Hz 50KHz, Nom. <5 +/-1.0% (BFS 0.04 g Equ 0.03% / 10 V 100 Ohr 100M O 2 To 10 mA DC Constant Curren 1,000 g 5,000 g -65 To +250 Deg F 0 To 100 0.02 g/uE Ec 0.01 g (Equiv 0.05 g RMS (Equi

NOTES

- 1 At +75 Deg F, 10g Peak, 100Hz; Power Supply 2 To 10 mA DC Constant Current with 12 To 30 VDC Compliance
- ² Referenced to Sensitivity @ 100 Hz.
- ³ Unit is Hermetic Sealed.

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