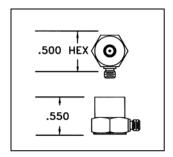
Columbia Research Laboratories, Inc.

General Purpose Accelerometers

Models 5003 & 5003-HT

- *Shock To 20,000 G
- *Sensitivity 1 pC/q
- *High Natural Frequency
- *Low Base Strain Sensitivity
- *8-32 Removable Stud





Accessories Supplied:

- (1) Cable Assembly, LNHT-10'
- (1) 8-32 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.

The Models 5003 and 5003-HT Piezoelectric Accelerometers are small, lightweight sensors with low sensitivity of 1 picoCoulomb/g making them excellent selections for most shock work. The high natural frequency imparts last response of less than 20 microseconds for shocks to 20,000 g.

The units incorporate a ring-shear crystal mass assembly within a stainless steel body to provide an extremely reliable sensor that is virtually insensitive to environmental inputs such as base bending and thermal transients. The grounded case construction provides tight mechanical coupling which yields accurate, wideband shock and vibration data. These accelerometers feature a 10-32 side connector and are provided with a 10' low-noise coaxial cable. The Model 5003-HT will operate in environments up to +500 Deg. F. *Consult the factory for customized versions of these sensors.*

Specifications

5003 & 5003-HT
1 +/-0.5 pC/g
300 +/-60 pF
+/-5% Max
2 Hz To 10,000 Hz
50 KHz, Nom.
5% Max
+/-1.0% (BFSL) / 2,000 g
20,000 M Ohm Min, 50 VDC Test
0 (Case Grounded)
1,000 g Max (Sine)
20,000 g Max, 0.25 mSec
-100 To +350 Deg F (-73 To +175 Deg C)
-100 To +500 Deg F (-73 To +260 Deg C)
0 To 98% R.H. (Non-Condensing)
0.003 g/uE Equiv, Typical
0.01 g (Equiv / 100 Gauss)
Shear
0.500 In. Hex x 0.550 In. H (12.7 mm Hex x 12.7 mm H)
0.32 Oz (9 Gm)
18-8 Stainless Steel
Coaxial 10-32 Thread
8-32 UNF Removable Stud

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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