

Single axial PE accelerometer

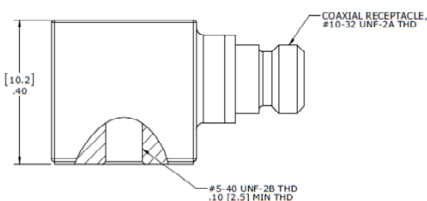
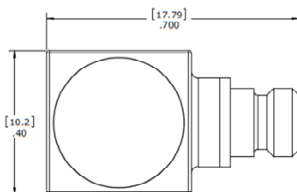


Features

- Miniature cube
- Size 10X10X10
- Adhesive or stud mounting
- Hermetic seal
- Annular shear mode
- Wide frequency response

Application

- Vibration monitoring
- Shock testing
- Road testing
- Modal analysis
- Aircraft testing



Dynamic

Sensitivity, $\pm 10\%$, 25°C	5 pC/g
Acceleration range	2000 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 5\%$	1 - 7,000 Hz
$\pm 1\text{dB}$	1 - 10,000 Hz
$\pm 3\text{dB}$	0.5 - 15,000 Hz
Resonance frequency.....	40 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50°C	-5%
$+120^{\circ}\text{C}$	+5%

Electrical

Electrical noise, Broadband Spectral(g):	
1 Hz to 10 kHz.....	100 μg
Grounding.....	Case grounded

Environmental

Temperature range.....	-50 to 125°C
Vibration limit.....	2000 g peak
Shock limit.....	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 $\mu\text{g/gauss}$
Sealing	Hermetic
Base strain sensitivity, max.....	0.0002 g/ μstrain

Physical

Sensing element design.....	PZT ceramic/shear
Weight.....	6 grams
Case material.....	Stainless Steel
Output connector.....	10-32

Accessories

Mounting stud: M5(-M), 10-32(-E), or W/O
 Low noise mating cable with BNC output
 Calibration certificate

Note: Frequency response limits spectral and noise values are typical

Ordering Information

510P-5	
└──	Output in pC
└──	Charge type
└──	Model