



Single axial IEPE accelerometer

Dynamic

Sensitivity, $\pm 10\%$, 25°C	50 mV/g
Acceleration range	100 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	-10%
$+120^\circ\text{C}$	+10%

Electrical

Power requirement: voltage source	18 - 30 VDC
current regulating diode	2 - 10 mA
Electrical noise, Broadband Spectral(g):	
1 Hz to 10 kHz.....	500 μg
Output impedance, max.....	100 Ω
Bias output voltage.....	10 VDC
Grounding.....	Case grounded

Environmental

Temperature range.....	-50 to 125°C
Vibration limit.....	500 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

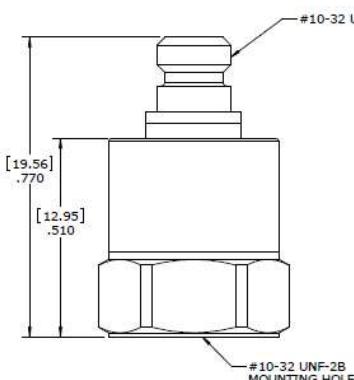
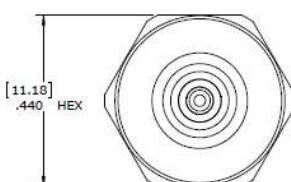
Physical

Sensing element design.....	PZT ceramic/shear
Weight.....	7 grams
Case material.....	Stainless Steel
Output connector.....	10-32

Accessories

- Mounting stud:10-32(-E)
- Mating cable with BNC output
- Calibration certificate

Note: Frequency response limits spectral and noise values are typical



Ordering Information

511A-100-E

