



Miniature IEPE accelerometer

Dynamic

Sensitivity, $\pm 10\%$, 25°C	1 mV/g
Acceleration range	5000 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 10\%$	1 - 9000 Hz
$\pm 3 \text{ dB}$	0.5 - 11000 Hz
Resonant frequency.....	48 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-55°C	-10%
$+125^{\circ}\text{C}$	+10%

Electrical

Power requirement: voltage source	18 - 30 VDC
current regulating diode	2 - 10 mA
Electrical noise, Broadband Spectral (g):	
2 Hz to 20 kHz.....	15 mg
Output impedance, max.....	100 Ω
Bias output voltage.....	8 - 12 VDC
Grounding.....	Case grounded

Environmental

Temperature range.....	-55 to 125°C
Vibration limit.....	5000 g peak
Shock limit.....	5000 g peak
Electromagnetic sensitivity, equiv g, max	90 $\mu\text{g/gauss}$
Sealing	IP68
Base strain sensitivity, max.....	0.0002 g/ μstrain

Physical

Sensing element design.....	Ceramic/shear
Weight.....	0.9 grams
Case material.....	Titanium
Output connector.....	M3

Accessories

Mating cable with BNC output
Calibration certificate

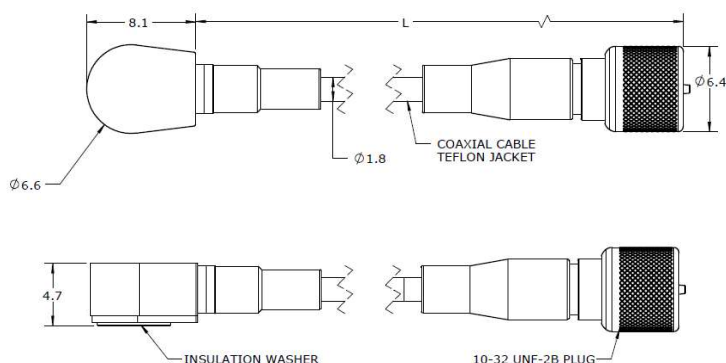
Note: Frequency response limits spectral and noise values are typical

Features

- Miniature size
- Adhesive mounting
- Hermetic seal
- Annular shear mode
- Wide frequency response
- Shock duration

Application

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



Ordering Information

711A-5000

