Senther 710A-2000

Miniature IEPE accelerometer

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

Dynamic

Sensitivity, ±10%, 25°C	2.5 mV/g
Acceleration range	2000 g peak
Amplitude nonlinearity	1%
Frequency response:	
± 10%	1 - 9000 Hz
± 3 dB	0.5 - 11000 Hz
Resonant frequency	48 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
–55°C	–10%
+125°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	6 mg
Output impedance, max	100 Ω
Bias output voltage	8 - 12 VDC
Grounding	Case grounded

Environmental

Temperature range	–55 to 125°C
Vibration limit	2000 g peak
Shock limit	5000 g peak
Electromagnetic sensitivity, equiv g, max	90 µg/gauss
Sealing	Hermetic
Base strain sensitivity, max	0.0002 g/µstrain

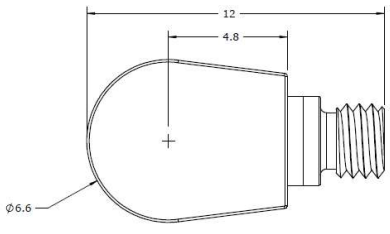
Physical

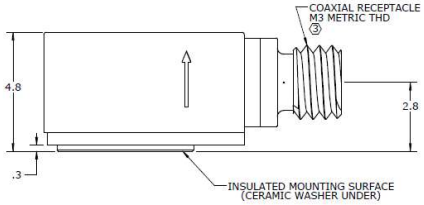
Sensing element design	Ceramic/shear
Weight	0.9 grams
Case material	Titanium
Output connector	M3

Accessories

Mating cable with BNC output
Calibration certificate

Note: Frequency response limits spectral and noise values are typical





Ordering Information

710A-2000

- Range in g
- Output type
- Model