

A/23/E-1 Piezoelectric Accelerometer

Integral isolating ceramic base

8pC/g nom. 3.4gm 200°C Max. temp



A generic range of lightweight, Konic shear® sensing element based vibration transducers offering a choice of tapped base stud mount or flat based adhesive attachment and each with side or top mounted connector. All welded construction maximizes temperature range and reliability.

Adhesive mounted versions - Abrasive cleaning of the attachment face will reduce base thickness over time; sparing use of adhesive will aid longevity, whilst also maximizing data accuracy.

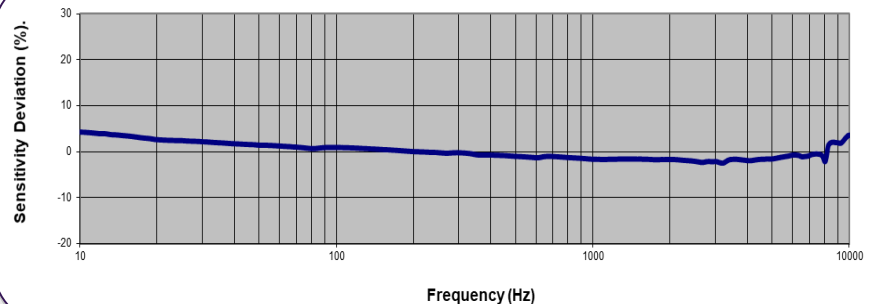
Applications:

- Modal, analysis
- High level vibration to 5000g.
- Shock withstand to 10,000g.
- High level measurements, top entry connector versions, minimising case loading, are preferred.

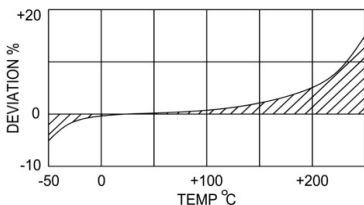
Options:

- A/23/E – Side entry
- A/23/EB – Side entry, tapped base
- A/23/TE – Top entry
- A/23/TB – Top entry, tapped base
- A/23/E-1 – Side entry, isolated base
- A/23/TE-1 – Top entry, isolated base

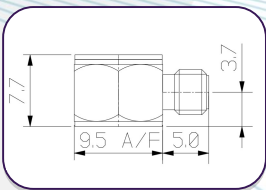
Typical Frequency Response



Temperature Response



A/23/E



| | Metric | Imperial |
|------------------------------------------|---------------------------------|------------------------------|
| Charge sensitivity nom. | 0.81pC/(m/s ²) | 8pC/g |
| Resonant Frequency | ≥50 kHz | |
| Typical Frequency Response | 1Hz – 10kHz 0.7Hz – 11kHz | |
| Cross Axis error | ≤5% | |
| Capacitance nom. | 1050 pF | |
| Temperature Range | -55/ +200°C | -67/ +392°F |
| Charge sensitivity deviation (20°C/68°F) | -5% @ -55°C +10% @ +200°C | -5% @ -67°F +10% @ +392°F |
| Base Strain Sensitivity | ≤0.001g/μ strain | |
| Maximum Shock g level, rise time μs | 98100m/s ² , 30 | 10000g, 30 |
| Pyro-electric output | 0.15g/°C | |
| Pyro-electric corner frequency | 0.005Hz | |
| Case Material | Titanium Grade 2 | |
| Mounting | Adhesive isolating ceramic base | |
| Weight | 3.4gm | 0.12oz |
| Case seal | Welded | |
| Size | 9.5 (A/F) x 7.7mm | 0.38 (A/F) x 0.30in |
| Connector | Side entry 10-32 UNF Microdot | |

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Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes.

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A UK company with UK-based manufacturing, assembly and calibration in-house.



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