Piezo-electric accelerometer

A/23/E
A/23/S
A/23/TE
A/23/TS
A/23/SIT
A/23/IT

8pC/g nom. • 4/5gm wt.
250°C max. temp.

A generic range of lightweight, KONIC sensing element based vibration transducers offering a choice of integral stud or flat base adhesive attachment, and each with side or top mounted connector.

All welded construction maximises temperature range, reliability, and sensitivity is approximately double that of competitive equivalent mass products. Spurious strain induced error, either via the structure or signal cable, is negligible.

Adhesive mounted versions : Abrasive cleaning of the attachment face will reduce base thickness over time, sparing use of adhesive will aid longevity.

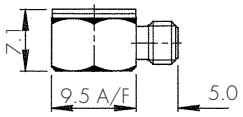
APPLICATIONS

Modal analysis, high level vibration to 5,000g, shock to 10,000g.
For high level measurements, top entry connector versions, minimising case loading, are preferred

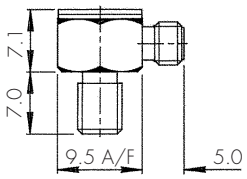
options

- close tolerance output
- wideband temperature calibration
- proof shock testing
- case isolated version available : A/23/SIT, A/23/IT
- non-magnetic A/23/TS/N : 3.5g

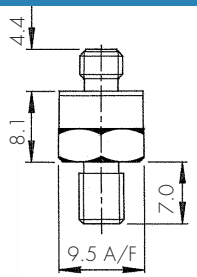
A/23/E



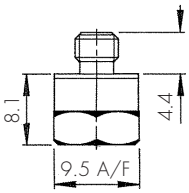
A/23/S



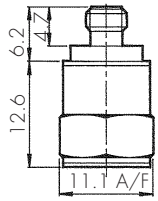
A/23/TS



A/23/TE

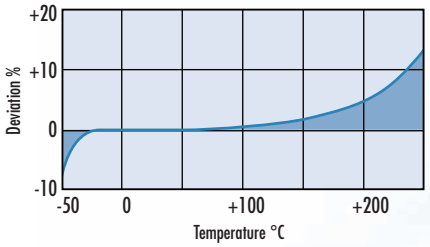


A/23/IT

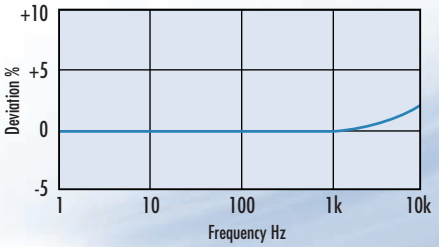


dims. mm

TEMPERATURE RESPONSE



FREQUENCY RESPONSE



CONVERSION MODE	KONIC
Charge sensitivity pC/g	6/11
Capacitance pF	800/1300
Resonant frequency kHz	50
Cross axis error % max	5
Temperature range °C	-50/+250
Charge sensitivity deviation re 20°C	-5 % @ -50°C +15 % @ +250°C
Pyro-electric output, g/°C	0.15
Pyro-electric corner freq. Hz	0.005
Base strain sens. g/μ strain	< 0.01
Max continuous accn. g sine	5000
Max shock g pk., rise time μ sec.	10000, 30
Case material	s/steel 303 S31
Mounting	adhesive A/23/E, TE, /IT integral stud M5, 7mm lg. (or shorter) A/23/S, TS, SIT
Weight gm	4.5 (A/23/E) ; 4.5 (A/23/TE) ; 8 (A/23/IT) 5.2 (A/23/S) ; 5.2 (A/23/TS) ; 8.3 (A/23/SIT)
Connector	Microdot skt.,10/32 UNF thd. isolated Microdot 10/32 UNF (A/23/IT, SIT)
Mounting torque Nm	1
Case seal	welded