

A/23/E, A/23/S, A/23/TS, A/23/TE Piezoelectric Accelerometer

8pC/g nom. 3.6, 4gm 250°C Max



A generic range of lightweight, Konic shear sensing element based vibration transducers offering a choice of integral stud 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.

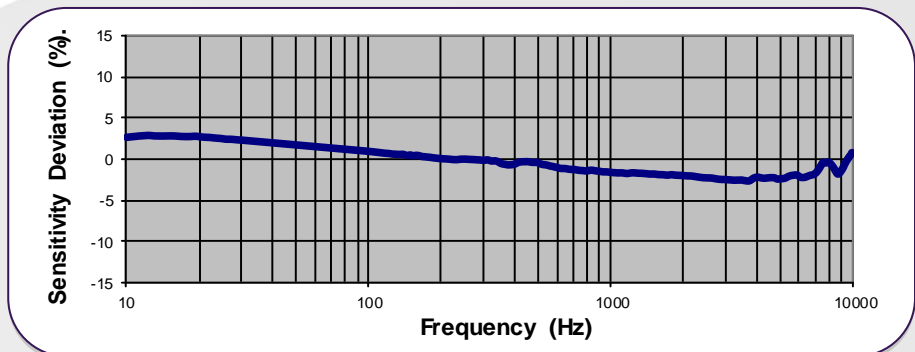
Applications

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

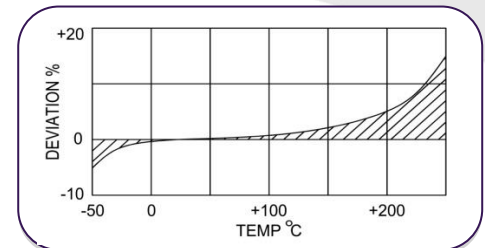
Options

- Close tolerance output
- Wideband temperature calibration
- Proof shock testing

Typical Frequency Response

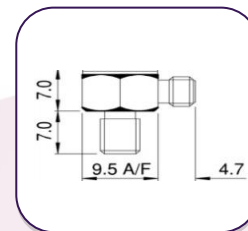


Temperature Response

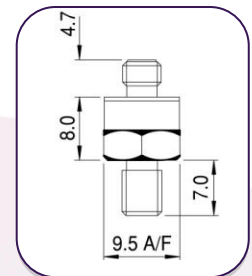


	Metric		Imperial	
Charge sensitivity nom.	0.61pC/(m/s ²)	1.12pC/(m/s ²)	6pC/g	11pC/g
Capacitance pF	800	1300	800	1300
Resonant Frequency kHz	~ 50		~ 50	
Cross Axis error % max	5		5	
Temperature Range	-50/ +250°C		-58/ +482°F	
Charge sensitivity deviation at 20°/68°F	-5% @ -50°C +15% @ +250°C		-5% @ -58°F +15% @ +482°F	
Frequency Response	1Hz – 10KHz +/-5%		1Hz – 10KHz +/-5%	
Maximum continuous 'g level	49,033m/s ²		5000g	
Maximum Shock g level, rise time μs	98100m/s ² , 30		10000g, 30	
Case Material	Titanium Grade 2		Titanium Grade 2	
Mounting	Adhesive A/23/E, TE M5 x 5 mm Int Stud A/23/S, TS		Adhesive A/23/E, TE M5 x 5 mm Int Stud A/23/S, TS	
Connector	10-32 UNF Microdot		10-32 UNF Microdot	
Weight	3.6gm A/23/E, TE 4gm A/23/S, TS,		0.12oz A/23/E, TE 0.14oz A/23/S, TS	
Size	9.5 (A/F) x 10mm 9.5 (A/F) x 9.4mm 9.5 (A/F) x 10.5mm 9.5 (A/F) x 10.5mm		0.33 (A/F) x 0.35in 0.33 (A/F) x 0.33in 0.33 (A/F) x 0.37in 0.33 (A/F) x 0.37in	
Base Strain Sensitivity	<0.01g/μ strain		<0.01g/μ strain	
Case seal	Welded		welded	

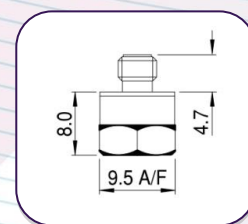
A/23/S



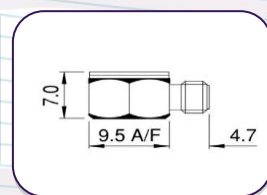
A/23/TS



A/23/TE



A/23/E



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