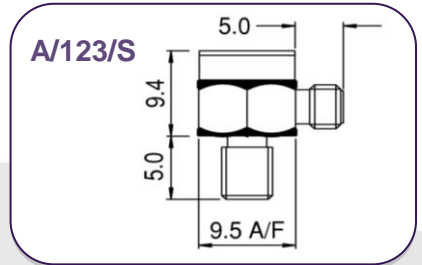
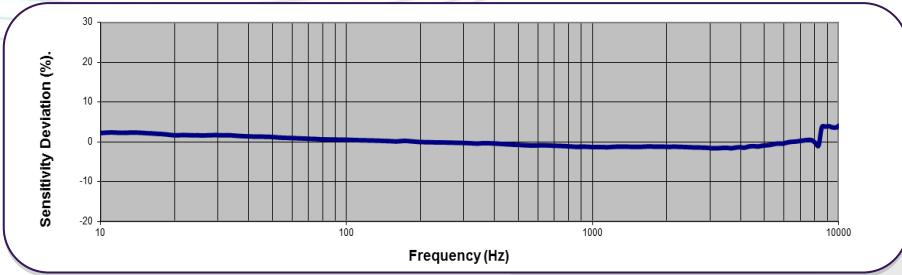




## A/123/S Piezo-Tronic IEPE Accelerometer

1mV/g up to 250mV/g ±10%      5.2gm      Std temp 125°C (HT 185°C)

### Typical Frequency Response



The A/123 range of Piezo-tronic IEPE accelerometers features the Konic shear design sensing element, including a hybrid QVC, packaged to offer a choice of side/ top entry connector, integral stud or flat base (for adhesive mounting). Ideal for applications requiring a low mass compact design for minimal mass loading effect the A/123 offers wide frequency band with a linear response. Available as a high temperature IEPE accelerometer with a max operating temperature of 185 the A/123 is a highly versatile and robust accelerometer. Applications include, modal testing, general vibration testing, NVH, package testing, shock testing etc.

### Options

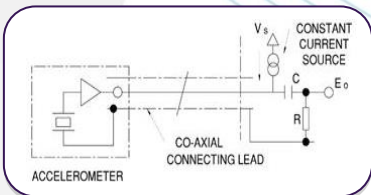
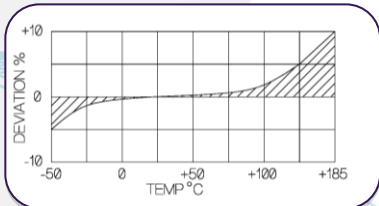
- Extended low frequency response
  - Wideband temperature calibration -50/+125°C.
- A/123/E – Side entry  
A/123/S – Side entry stud  
A/123/TE – Top entry  
A/123/TS – Top entry stud  
A/123/EB – Side entry, Tapped Base  
A/123/TB – Tapped Base

**NOTE:** Voltage sensitivities shown are standard. We offer a wide range of sensitivities on request and recommend that applications are evaluated to determine the requisite sensitivity.

### Typical Spectral Noise (100mV/g)

1Hz	761µg/√Hz
10Hz	193µg/√Hz
100Hz	37.8µg/√Hz
1kHz	11.2µg/√Hz
10kHz	4.2µg/√Hz

### Temperature Response



	Metric			Imperial		
Voltage Sensitivity ±10%	0.5mV/(m/s <sup>2</sup> )	1.02mV/(m/s <sup>2</sup> )	10.2mV/(m/s <sup>2</sup> )	5mV/g	10mV/g	100mV/g
Resonant frequency	50 kHz					
Typ. Frequency Response ±5% ±10%	1Hz – 10kHz 0.7Hz – 11kHz					
Cross Axis error	≤5%					
Temperature Range	-50/+185°C (HT)			-58/+365°F (HT)		
Voltage sensitivity deviation (20°C / 68°F)	-5% @ -50°C +5% @ +125°C +/- 10% @ +185°C (HT)			-5% @ -58°F +5% @ +257°F +/- 10% @ +365°F (HT)		
Supply voltage	15/ 35 standard V DC					
Supply current	2/20 mA					
Bias voltage	9/10 V DC					
Max continuous accn. g sine	9807m/s <sup>2</sup>			1000g		
Settling time to 90% final val.	<1 sec					
Base Strain Sensitivity	≤ 5%			≤ 5%		
Saturation limit g	9807m/s <sup>2</sup>	4903m/s <sup>2</sup>	490.3m/s <sup>2</sup>	1000g	500g	50g
Noise level, equiv. mg	3					
Case material	Titanium					
Mounting	M5 x 5mm Int Stud			M5 x 0.2in Int Stud		
Weight	5.2gm			0.18oz		
Case seal	Welded					
Size	9.5(A/F) x 9.4mm			0.37in (A/F) x 0.370in		
Connector	10-32 UNF Microdot					

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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