

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

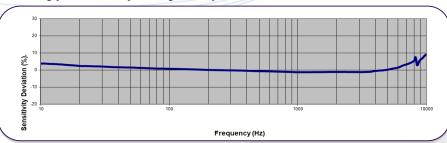
1mV/g up to 250mV/g ±10%

4.8gm

Std temp 125°C

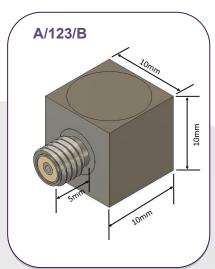


## Typical Frequency Response



The A/123/B is part of the wide range of A/123 monoaxial accelerometers which use the unique Konic Shear® piezoelectric sensing element for superior cross axis control and enhanced performance. The A/123/B is designed as a 10mm cube with a side entry 10/32UNF connector, this allows the user to adhesive mount the accelerometer on any 5 of its faces for maximum flexibility in applications such as modal analysis.

Lightweight titanium fully welded construc accelerometer.



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.

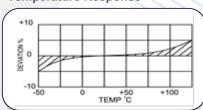
Frequency responses given are based On the A/123/B mounted on its base With Connector exiting to the side.

ction for a rugged and relia							
	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 – 8kHz 0.7Hz – 10kHz						

## Typical Spectral Noise (100mV/g)

1Hz 522 $\mu$ g/ $\sqrt{Hz}$ 10Hz 31.2 $\mu$ g/ $\sqrt{Hz}$ 100Hz 8.9 $\mu$ g/ $\sqrt{Hz}$ 1kHz 5.8 $\mu$ g/ $\sqrt{Hz}$ 10kHz 4.2 $\mu$ g/ $\sqrt{Hz}$
---

## **Temperature Response**



Resoliant frequency	≥50 KHZ							
Typ. Frequency Response ± 5% ±10%	1Hz – 8kHz 0.7Hz – 10kHz							
Cross Axis error	≤5%							
Temperature Range	-55/+125°C -67/+257°F							
Voltage sensitivity deviation (20°C / 68°F)	-5% @-55°C -5% @-67°F +5% @ +125°C +5% @ +257°F							
Supply voltage	18/ 35 standard V DC							
Supply current	2/20 mA							
Output Impedance	≤100Ω							
Bias voltage	10/14 VDC							
Shock Limit	49,033m/s <sup>2</sup>			5000g				
Settling time within 10% bias	<5 sec							
Non-linearity (%FS)	≤1%							
Discharge Time Coef.	1 to 3 seconds							
Base Strain Sensitivity	≤0.001g/µ strain							
Saturation limit g	9807m/s <sup>2</sup>	4903m/s <sup>2</sup>	490.3m/s <sup>2</sup>	1000g	500g	50g		
Broadband resolution grms	0.01	0.002	0.0009	0.01	0.002	0.0009		
Case material	Titanium							
Mounting	Adhesive							
Weight	4.8gm 0.17oz							
Case seal	Welded							
Size (without connector)	10mm x 10mm x 10mm 0.39 x 0.39in x 0.39in							
Connector	10-32 UNF Microdot							

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

**DJB Instruments (UK) Ltd** 

Finchley Avenue,

Mildenhall, Suffolk IP28 7BG

Tel Email

+44 (0)1638 712 288 sales@djbinstruments.com Web

www.djbinstruments.com

ISO 9001

