

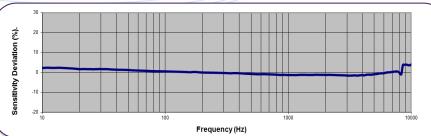
A/123/EB Piezo-Tronic IEPE Accelerometer

1mV/g up to 250mV/g ±10%

4.4gm

Std temp 125°C

Typical Frequency Response

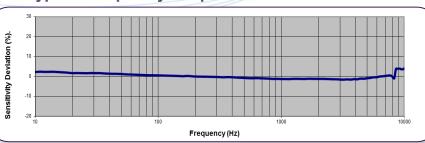


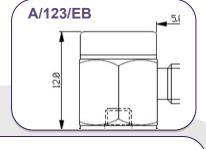
The A/123/EB range of PiezoTronic IEPE accelerometers features the Konic shear® design sensing element and internal electronics, packaged to offer a side entry connector and tapped base. Ideal for applications requiring a low mass compact design for minimal mass loading effect the A/123 offers wide frequency band with a linear response. The A/123 is a highly versatile and robust accelerometer. Applications include, modal testing, general vibration testing, NVH, package testing, shock testing etc.

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)

522µg/√Hz 1Hz 31.2µg/√Hz 10Hz 8.9µg/√Hz 100Hz 5.8µg/√Hz 1kHz 10kHz 5.12µg/√Hz





Options

- Extended low frequency response
- Wideband temperature calibration -50/+125°C.

A/123/E Side entry

A/123/E-1 Side entry, isolated ceramic base

A/123/TE Top entry

A/123/TE-1 Top entry, isolated ceramic base

A/123/EB Side entry, tapped base

A/123/TB Top entry, tapped base

	Metric			Imperial		
Voltage Sensitivity ±10%	0.5mV/(m/s ²)	1.02mV/(m/s ²)	10.2mV/(m/s ²)	5mV/g	10mV/g	100mV/g
Resonant frequency	≥50 kHz					
Typ. Frequency Response ± 5% ±10%	1Hz – 10kHz 0.7Hz – 11kHz					
Cross Axis error	≤5% max					
Temperature Range	-55/+125°C -67/+257°F					
Voltage sensitivity deviation (20°C / 68°F)	-5% @-55°C +5% @ +125°C			-5% @-67°F +5% @ +257°F		
Supply voltage	15/35 standard V DC					
Supply current	2/20 mA					
Bias voltage	10/14 V DC					
Shock limit	49,033m/s ² 5000g					
Settling time within 10% bias	<5 sec					
Base Strain Sensitivity	≤0.001g/µ strain					
Discharge Time Coef.	1-3 seconds					
Saturation limit g	9806m/s ²	4903m/s ²	490.3m/s ²	1000g	500g	50g
Broadband Resolution grms	0.01	0.002	0.0009	0.01	0.002	0.0009
Case material	Titanium					
Output Impedance	≤100 Ohms					
Non-Linearity (%FS)	≤1%					
Mounting	Tapped Base, 5-40 UNC Supplied with adaptor stud to 10/32UNF thread					
Weight	4.4gm 0.155oz					
Case seal	Welded					
Size	9.5(A/F) x 12mm 0.37in (A/F) x 0.47in					
Connector	10-32 UNF Microdot					

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

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