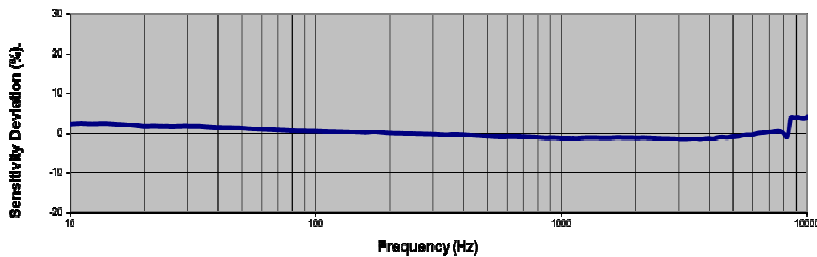


A/123/E Piezo-Tronic IEPE Accelerometer

1mV/g up to 250mV/g $\pm 10\%$ 3.4gm Std temp 125°C



Typical Frequency Response



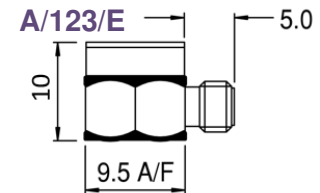
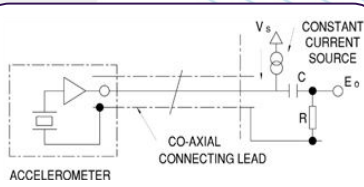
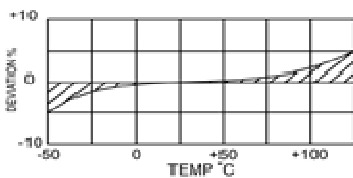
The A/123 range of Piezo-tronic IEPE accelerometers features the Konic shear design sensing element, packaged to offer a choice of side/ top entry connector, tapped base, adhesive base and isolated ceramic adhesive mount base. Ideal for applications requiring a low mass compact design for minimal mass 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)

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

Temperature Response



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/s²)	1.02mV/(m/s²)	10.2mV/(m/s²)	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	-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					
Output Impedance	≤100Ω					
Bias voltage	10/14 VDC					
Shock Limit	49,033m/s²			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/s²	4903m/s²	490.3m/s²	1000g	500g	50g
Broadband resolution grms	0.01	0.002	0.0009	0.01	0.002	0.0009
Case material	Titanium					
Mounting	Adhesive					
Weight	3.4gm			0.12oz		
Case seal	Welded					
Size	9.5(A/F) x 10mm			0.37in (A/F) 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

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