

# A/124/E-1 Miniature Piezo-Tronic IEPE Accelerometer With integral ceramic isolating base

1mV/g up to 200mV/g ±10%

2gm

Std temp 125°C

The A/124 range of miniature IEPE accelerometers are available with a range of mounting options including adhesive base, integral ceramic isolating base and integral stud. With top and side entry versions the A/124 is ideal for applications requiring minimal mass loading effects. All versions feature:

- · Konic Shear sensing element
- Fully welded construction
- · Miniature KP M3.5mm thread, side or top entry coaxial connector
- Titanium case

Featuring full compatibility with low-outgassing requirements the A/124 is popular with satellite installations.

#### 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.

#### **Options:**

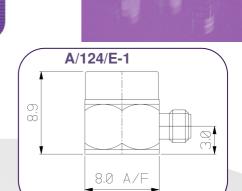
A/124/E Side entry

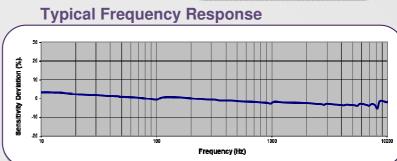
A/124/E-1 Side entry, integral ceramic isolating base

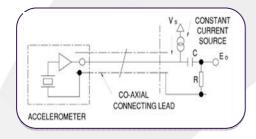
A/124/TE Top entry

A/124/TE-1 Top entry, integral ceramic isolating base

A/124/TS - Top entry, integral stud



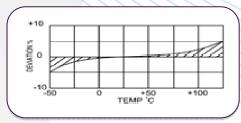




### Typical Spectral Noise (100mV/g)

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	1Hz	345μg/√Hz
	10Hz	42.8µg/√Hz
	100Hz	11.2μg/√Hz
	1kHz	5.67µg/√Hz
	10kHz	5.2μg/√Hz
V.		1 0

## **Temperature Response**



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

	Metric			Imperial				
Voltage Sensitivity ±10%	0.1mV/ (m/s²)	1.02mV/ (m/s²)	10.2mV/ (m/s²)	1mV/g	10mV/g	100mV/g		
Resonant frequency	≥70 kHz							
Typical Frequency Response ±5% ±10%	onse 1Hz - 11kHz 0.7Hz - 13kHz ≤5%							
Cross Axis error								
Temperature Range	-55/+125°C			-67/+257°F				
Voltage sensitivity deviation (20°C/68°F)	-5% @-50°C +5% @ +125°C		-5% @-67°F +5% @ +257°F					
Supply voltage	15/35 VDC							
Supply current	2/20 mA							
Output impedance		≤100Ω						
Bias voltage		10/14 V DC						
Settling time within 10% bias	<5 sec							
Shock limit	49033m/s²			5000g				
Saturation limit g	49033m/s <sup>2</sup>	4903m/s <sup>2</sup>	490.3m/s <sup>2</sup>	5000g	500g	50g		
Broadband resolution grms	0.02	0.012	0.002	0.02	0.012	0.002		
Base Strain Sensitivity	≤0.001g/μ strain					<u> </u>		
Non-linearity (%FS)	≤1%							
Discharge time coef.	1-3 seconds							
Case material	Case material Titanium Grade 2							
Mounting	Flat base integral isolating ceramic disc, adhesive							
Weight	2gm			0.07oz				
Case seal	ed							
Size	8(A/F) x 9mm			0.31(A/F) x 0.35in				
Connector	M3.5 KP							

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