

A/124/E Miniature Piezo-Tronic IEPE Accelerometer

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:

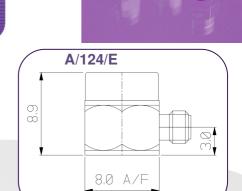
A/124/E Side entry

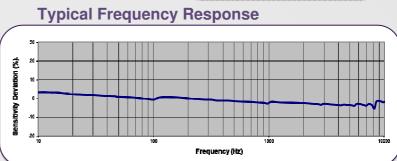
A/124/E-1 Side entry, integral ceramic isolating base

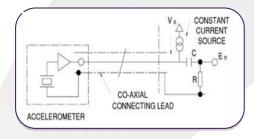
A/124/TE Top entry

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

A/124/TS - Top entry, integral stud



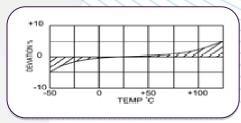




Typical Spectral Noise (100mV/g)

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

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/s ²)	1.02mV/ (m/s ²)	10.2mV/ (m/s²)	1mV/g	10mV/g	100mV/g	
Resonant frequency	≥70 kHz 1Hz - 11kHz 0.7Hz - 13kHz						
Typical Frequency Response ±5% ±10%							
Cross Axis error	≤5%						
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 2/20 mA ≤100Ω 10/14 V DC						
Supply current							
Output impedance							
Bias voltage							
Settling time within 10% bias	<5 sec						
Shock limit	49033m/s²			5000g			
Saturation limit g	49033m/s ²	4903m/s ²	490.3m/s ²	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						
Non-linearity (%FS)	≤1%						
Discharge time coef.							
Case material							
Mounting	Flat base, adhesive						
Weight	2gm			0.07oz			
Case seal	Welded						
Size	8(A/F) x 9mm			0.31(A/F) x 0.35in			
Connector	M3.5 KP						

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DJB Iss.5 2020

