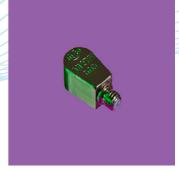


## A/127/V Miniature Piezo-Tronic IEPE Accelerometer

1mV/g up to 100mV/g ±10%

1.4gm

Std temp 125°C



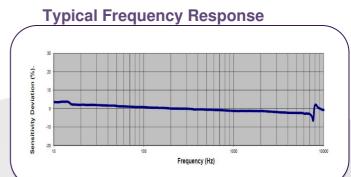
Sub-miniature teardrop IEPE / voltage output accelerometer.

Manufactured in Titanium and features an all welded construction for a robust build. Using the DJB unique Konic shear sensing element the low mass of the A/127/V renders it transparent in the vast majority of light weight structure vibration measurement applications.

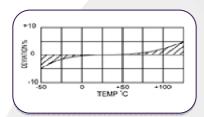
The A/127/V is adhesive mounted. A detachment tool is provided to shear adhesive joints. Shock removal is to be avoided as being deleterious to the integrity of the transducer.

Abrasive cleaning of the attachment face will reduce base thickness over time; sparing use of adhesive will aid longevity.

All welded construction. KP miniature microdot connector.



## **Temperature Response**

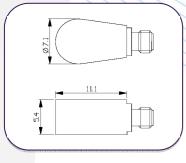


## Typical Spectral Noise (100mV/g)

1Hz 393μg/√Hz 10Hz 174μg/√Hz 100Hz 32μg/√Hz 1kHz 12μg/√Hz 10kHz 5μg/√Hz

	Metric			Imperial		
Voltage Sensitivity ±10%	0.1 mV/(m/s²)	1.02 mV/(m/s²)	10.2 mV/(m/s²)	1mV/g	10mV/g	100mV/g
Resonant Frequency	≥50 kHz					
Typical Frequency ±5% Response ±10%	1Hz-11kHz 0.7Hz-13kHz	1Hz-11kHz 0.7Hz-13kHz	2Hz-11kHz 1Hz-13kHz	1Hz-11kHz 0.7Hz-13kHz	1Hz-11kHz 0.7Hz-13kHz	2Hz-11kHz 1Hz-13kHz
Cross Axis error	<5%					
Temperature Range	-50/ +125°C			-58/ +257°F		
Voltage sensitivity	-5% @ - 50°C			-5% @ - 58°F		
deviation (20°C/68°F)	+5% @ + 125°C			+5% @ + 257°F		
Supply Voltage	15 to 35 V DC					
Supply Current	2 to 20 mA					
Bias Voltage	9 to 14 V DC					
Settling time to 90% final val.	<5sec					
Maximum Continuous g level sine	49033m/s²			5000g		
Max Shock g level, rise time μs	98100m/s², 20			10000g, 20		
Saturation Limit, equiv.g	49033 m/s <sup>2</sup>	4903 m/s <sup>2</sup>	490.3m/s <sup>2</sup>	5000g	500g	50g
Base Strain Sensitivity	≤ 5%					
Case Material	Titanium					
Mounting	Adhesive					
Weight	1.4gm			0.05oz		
Size	11.1 x 7.1 x 5.4mm			0.44 x 0.28 x 0.21in		
Connector	M3.5 KP Miniature Microdot					

## A/127/V



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

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A UK company with UK-based manufacturing, assembly and calibration in-house.

ISO 9001