DJB Instruments

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

1, 10, 100mV/g ±10% **1.9gm wt.** **Std temp +125°C (185°C HT)**

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.

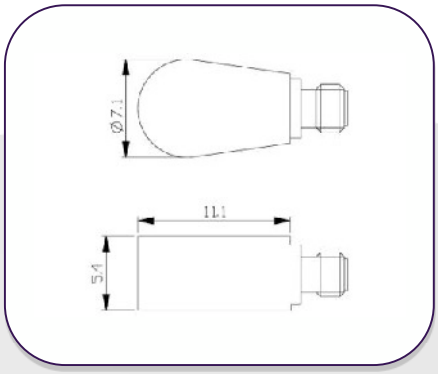
The A/127/V is adhesive mounted. A detachment tool is provided to shear adhesive joints. Shock removal is to be avoided as being deleterious to the integrity of the transducer.

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

All welded hermetically sealed construction.

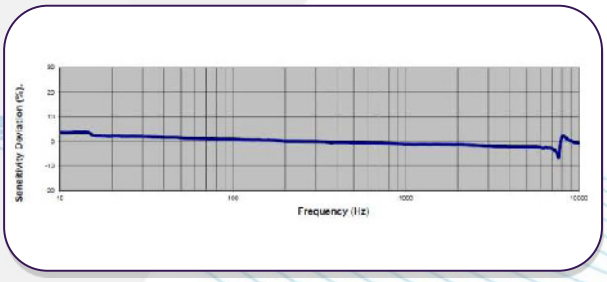
KP miniature microdot connector

A/127/V



Conversion Mode	Konic shear		
Voltage Sensitivity mV/g ±10%	1	10	100
Resonant Frequency KHz	≈50		
Cross Axis error % max	5		
Temperature Range °C	-50/ +125°C (+185°C HT)		
Voltage sensitivity deviation re 20 °C	-5% @ - 50 +5% @ + 125 +10% @ + 185°C		
Frequency Response	0.7Hz – 10kHz ±5%		20Hz to 10kHz ±5%
Maximum Continuous g level sine	5000		
Max Shock g level, rise time µs	10000, 20		
Supply Voltage	15/ 35		
Bias Voltage	9/11		
Connector	KP Miniature Microdot		
Supply Current mA	2/20		
Settling time to 90% final val. (secs)	<1		
L.F, Corner frequency, Hz	0.2		
Saturation Limit, equiv.g	4500/ 5000	450/ 500	45/ 50
Case Material	Titanium		
Mounting	Adhesive		
Weight gm	1.9		

Typical Frequency Response



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