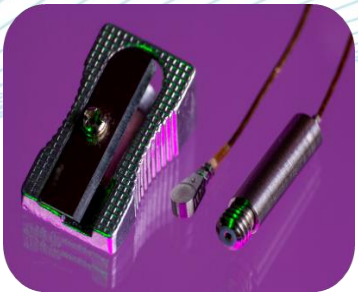
DJB Instruments
SENSING ENGINEERING INNOVATION

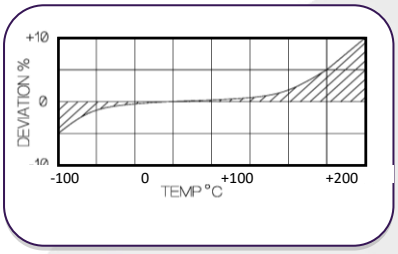
A/128/V Miniature Piezo-Tronic IEPE Accelerometer

1mV/g up to 10mV/g ±10% 0.19gm Max temp 200˚C

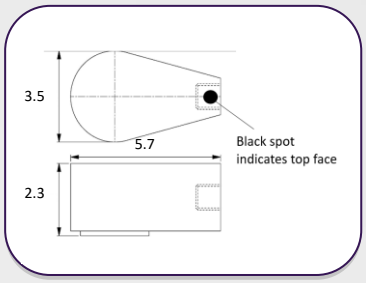


Ultra-miniature, in-line voltage output, all welded, piezo-ceramic shear plate sensing element. The low mass of the A/128/V renders it transparent in the vast majority of light weight structure vibration measurement applications.
The A/128/V is adhesive mounted. A detachment tool is provided to shear 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.
Signal outlet is via a 10-32 UNF microdot socket on the QF/28, in-line on the cable assembly.

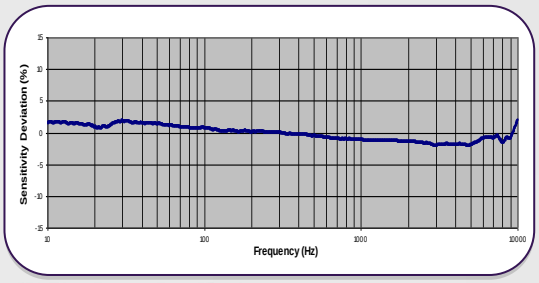
Temperature Response (QF/28 not included)



A/128/V



Typical Frequency Response



	Metric			Imperial		
Voltage sensitivity ±10%	0.102 mV/(m/s^2)	0.51 mV/(m/s^2)	1.02 mV/(m/s^2)	1mV/g	5mV/g	10mV/g
Resonant Frequency KHz	≈45			≈45		
Cross Axis error % max	5			5		
Temperature Range	-50/ +185ºC			-58/+365ºF		
Voltage sensitivity deviation re 20ºC/68ºF	-5% @ - 50ºC +5% @ + 125ºC +/- 10% @ +200ºC			-5% @-58ºF +5% @+257ºF +/- 10% @+392ºF		
Frequency Response ±5%	1Hz - 12KHz	10Hz-12kHz	20Hz-12kHz	1Hz - 12KHz	10Hz-12kHz	20Hz-12kHz
Maximum Continuous level	49,033m/s^2			5000g		
Max Shock level, rise time µs	98,100 m/s^2, 20			10000g, 20		
Supply Voltage V DC	15/ 35			15/ 35		
Bias Voltage V DC	8/10			8/10		
Supply Current mA	2/20			2/20		
Settling time to 90% final val. (secs)	<1			<1		
L.F, Corner frequency, Hz	0.1			0.1		
Saturation Limit, equiv.g	49,033m/s^2	9,807m/s^2	4,903m/s^2	5000g	1000g	500g
Case Material	s/steel 303 S31			s/steel 303 S31		
Mounting	Adhesive			Adhesive		
Weight	0.19g			0.007oz		
Connector	QF-28 (10-32 UNF Microdot)			QF-28 (10-32 UNF Microdot)		
Size	5.7 x 3.5 x 2.3mm			0.22 x 0.14 x 0.09in		

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

bsi. ISO 9001 Quality Management