



A/122/V Piezo-Tronic IEPE Accelerometer

10mV/g up to 1V/g $\pm 10\%$ 12gm Std temp 125°C (HT 185°C)

General purpose Piezo-tronic IEPE accelerometer, identical in sensitivity range to A/120/V, but with annular through hole fixing allowing full 360 degree connector orientation, reduced weight and height.

Konic shear mechanically preloaded ceramic sensing element in addition to the welded case seal, maximizes measurement integrity and reliability.

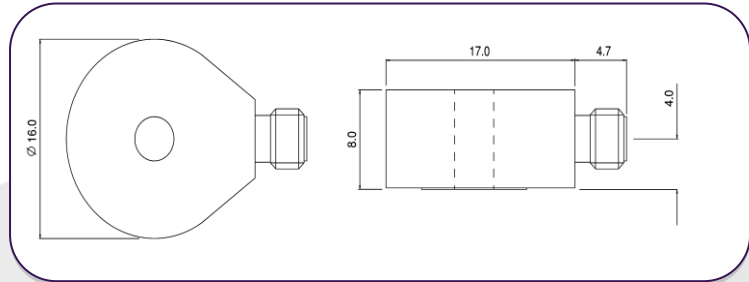
A/122/V will interface directly to spectrum analyzers having minimum 15V, 2mA transducer outlet, bearing in mind that the minimal supply may constrain high frequency capability, due to drive limitations, and dynamic range at elevated temperature.

Note that low level measurements are subject to signal/ noise constraints but may be realizable if band width is restricted.

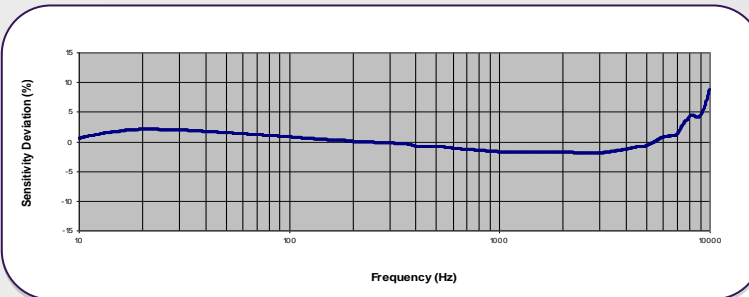
Note:

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.

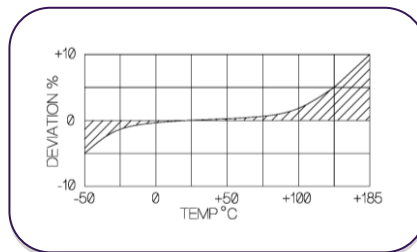
A/122/V



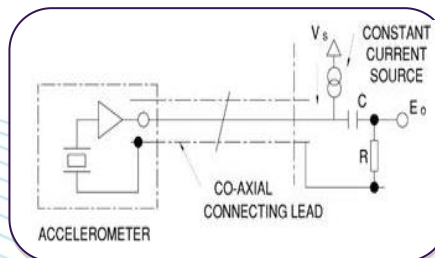
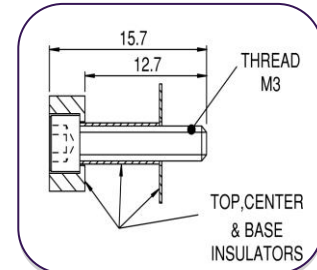
Typical Frequency



Temperature Response



Mounting Stud SI-22



Options

Non-standard sensitivities within range 10/100mV/g

Spectral Noise

1Hz	98.7 μ g/ \sqrt Hz
10Hz	61 μ g/ \sqrt Hz
100Hz	13.1 μ g/ \sqrt Hz
1kHz	4.2 μ g/ \sqrt Hz
10kHz	0.5 μ g/ \sqrt Hz



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12gm

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	Metric		Imperial	
Voltage Sensitivity $\pm 10\%$	1.02mV/(m/s ²)	10.2mV/(m/s ²)	10mV/g	100mV/g
Resonant frequency kHz	≈ 9		≈ 9	
Cross Axis error % max	5		5	
Temperature Range	-50/+185°C		-58/+365°F	
Voltage sensitivity deviation re 20°C/68°F	-5% @ 50°C +5% @ +125°C +/- 10% @ +185°C		-5% @ 58°F +5% @ +257°F +/- 10% @ +365°F	
Supply voltage V DC	15/35		15/35	
Supply voltage mA	2/15		2/15	
Bias voltage V DC	8/10		8/10	
Settling time to 90% final val. secs	<1		<1	
Max continuous accn. g sine	49,033m/s ²		1000g	
Frequency Response	1Hz-7KHz $\pm 5\%$ 1Hz-9KHz $\pm 10\%$		1Hz-7KHz $\pm 5\%$ 1Hz-9KHz $\pm 10\%$	
L.F corner frequency, Hz (-3db)	0.1	0.6	0.1	0.6
Case material	st/steel, 303 S31		st/steel, 303 S31	
Mounting	Through hole, 3.5mm dia.SI/22		Through hole, 1.4in dia.SI/22	
Weight	12gm		0.42oz	
Case seal	Welded		Welded	
Size	17.2 x \varnothing 16 x 9.5mm		0.68 x \varnothing 0.63 x 0.37in	
Connector	10-32 UNF Microdot		10-32 UNF Microdot	

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

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DJB Iss.2

