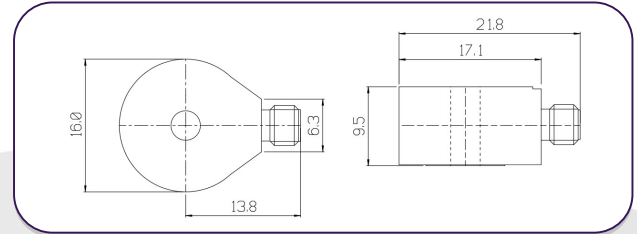




## A/122/V Piezo-Tronic IEPE Accelerometer

10mV/g up to 500mV/g  $\pm 10\%$     12gm    Std temp 125°C

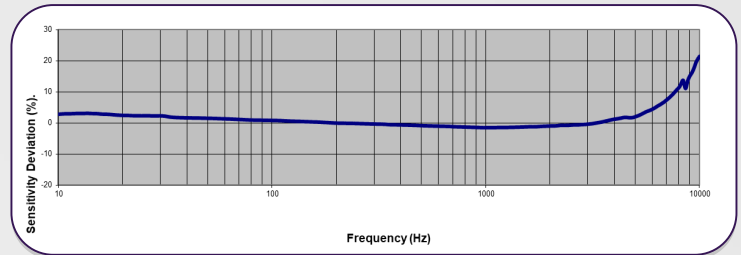
General purpose Piezo-Tronic IEPE accelerometer, identical in sensitivity range to A/120/V, but with annular through hole fixing allowing full 360 degree connector orientation, reduced weight and height.  
 Konic shear mechanically preloaded ceramic sensing element, in addition to the welded case seal, 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.



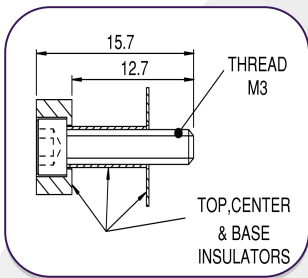
### Note

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.

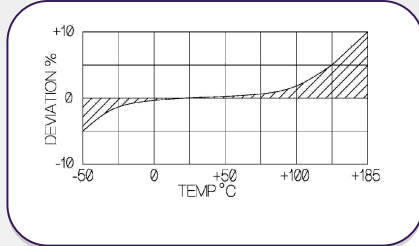
### Typical Frequency



### Mounting Stud SI-22



### Temperature Response



### Typical Spectral Noise (100mV/g)

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

	Metric		Imperial	
	Voltage Sensitivity $\pm 10\%$	1.02mV/(m/s <sup>2</sup> )	10.2mV/(m/s <sup>2</sup> )	10mV/g
Resonant frequency	$\geq 35$ kHz			
Typical Frequency Response $\pm 5\%$ / $\pm 10\%$	1Hz - 7kHz / 0.7Hz - 8kHz			
Cross Axis error	$\leq 5\%$			
Temperature Range	-55/+125°C		-67/+257°F	
Voltage sensitivity deviation (20°C/68°F)	-5% @ -55°C / +5% @ +125°C		-5% @ -67°F / +5% @ +257°F	
Supply voltage	15/35 V DC			
Supply current	2/20 mA			
Bias voltage	9/14 V DC			
Output impedance	$\leq 100\Omega$			
Broadband resolution grms	0.005	0.002	0.005	0.002
Non-linearity (%FS)	$\leq 1\%$			
Shock limit	58840m/s <sup>2</sup>		6000g	
Settling time within 10% bias.	<5 sec			
Base Strain Sensitivity	0.001g/ $\mu$ strain			
Case material	Stainless steel, 303 S31 or Titanium G2			
Mounting	Through hole, $\varnothing 3.5$ mm SI/22		Through hole, $\varnothing 1.4$ in SI/22	
Weight	12gm/9gm		0.42oz/0.32oz	
Case seal	Welded			
Size	21.8 x $\varnothing 16$ x 9.5mm		0.86 x $\varnothing 0.63$ x 0.38in	
Connector	10-32 UNF Microdot			

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.

DJB Iss.6 2020



ISO 9001 - 00025363