



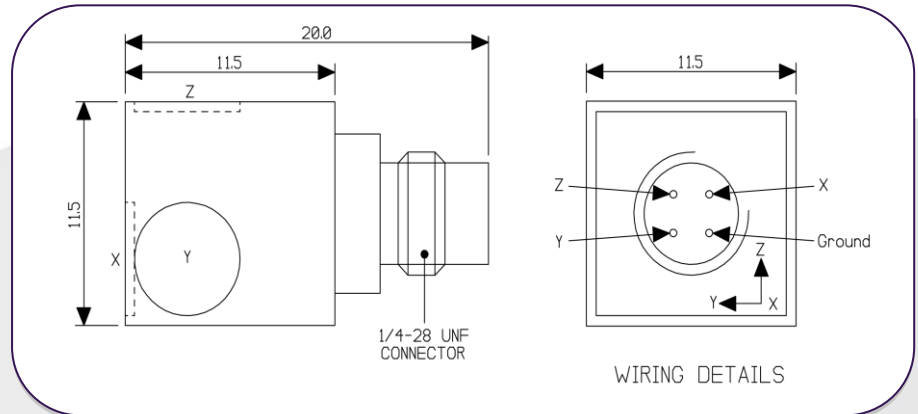
## AT/10 Miniature Triaxial IEPE Accelerometer

1mV/g up to 100mV/g  $\pm 10\%$     6.9gm    125°C Max Temp (185°C HT)

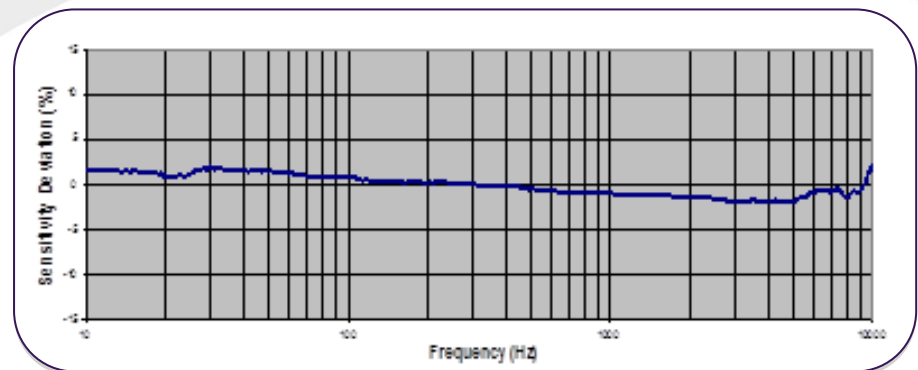
A lightweight miniature triaxial IEPE vibration transducer comprising of three voltage output piezo-electric accelerometer elements mounted orthogonally within a titanium block. The use of independent Konic Shear sensing elements ensures a rugged and repeatable triaxial measurement under the most extreme conditions. This design will outperform single element devices. The AT/10 uses high temperature piezo-ceramics as standard to ensure thermal stability. Using the industry standard 1/4-28 UNF 4 pin connector for a single cable connection, cable assemblies of any length can be provided breaking out to 3 BNC plugs.

The AT/10 is available with DJB's unique high temperature IEPE solution capable of testing up to 185°C as an option.

Standard sensitivity options are 1mV/g up to 100mV/g



### Typical Frequency Response



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

1Hz	650 $\mu$ g/ $\sqrt$ Hz
10Hz	174 $\mu$ g/ $\sqrt$ Hz
100Hz	32 $\mu$ g/ $\sqrt$ Hz
1kHz	12 $\mu$ g/ $\sqrt$ Hz
10kHz	7 $\mu$ g/ $\sqrt$ Hz

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DJB Iss.1





# AT/10 Miniature Triaxial IEPE Accelerometer

1mV/g up to 100mV/g  $\pm 10\%$     6.9gm    125°C Max Temp (185°C HT)

	Metric			Imperial		
Voltage Sensitivity @ 20°C mV/g $\pm 10\%$	0.51mV/(m/s <sup>2</sup> )	1.02 mV/(m/s <sup>2</sup> )	10.2 mV/(m/s <sup>2</sup> )	5mV/g	10mV/g	100mV/g
Resonant Frequency kHz	$\geq 58$ kHz			$\geq 58$ kHz		
Cross Axis Error % max	$\leq 5$			$\leq 5$		
Typical Frequency range (X/Y/Z Axis)	( $\pm 5\%$ )	1 to 7kHz	15Hz to 7kHz	( $\pm 5\%$ )	1 to 7kHz	15Hz to 7kHz
	( $\pm 10\%$ )	0.7kHz	15Hz to 9kHz	( $\pm 10\%$ )	0.7kHz	15Hz to 9kHz
Temperature Range	-50/ +125°C (+185°C HT)			-58/ +257°F (+365°F HT)		
Voltage Sensitivity re 20°C/68°F	-5% @ -50°C +5% @ +125°C +10% @ +185°C			-5% @ -58°F +5% @ +257°F +10% @ +365°C		
Excitation Current	2-20mA			2-20mA		
Max Continuous accn.g sine	49,033m/s <sup>2</sup>			5000g		
Saturation limit (equiv. g)	9,806m/s <sup>2</sup>	4,903 m/s <sup>2</sup>	490 m/s <sup>2</sup>	1000g	500g	50g
Supply Voltage VDC	15V to 35V standard			15V to 35V standard		
Bias Voltage VDC (20.C)	9 to 10VDC			9 to 10VDC		
Case Material	Titanium			Titanium		
Mounting	Adhesive			Adhesive		
Weight	6.9gm			0.24oz		
Case Seal	Welded			Welded		
Connector	¼-28UNF 4 pin			¼-28UNF 4 pin		
Size	11.5 x 11.5 x 11.5mm			0.45 x 0.45 x 0.45in		