

TDA110 Series

Test and Measurement Accelerometer, Side Exit 10-32 Coaxial Connector,
10-32 Mounting, 50 mVg, $\pm 10\%$



TEST & MEASUREMENT PRODUCTS



Product Features

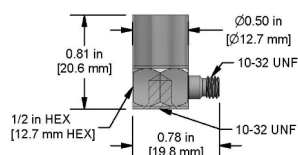
General Purpose Test & Measurement Accelerometer

- Lightweight Titanium Case
- Packaged in a Complimentary Protective Storage Case

TDA110

Coaxial Connector

Connector Pin	Polarity
Center	(+) Signal/Power
Shell	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TDA110	M/TDA110	<u>Environmental</u>		
Sensitivity ($\pm 10\%$)		50 mV/g	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	30 - 1,500,000 CPM	0.5 Hz - 25 kHz	Maximum Shock Protection		10,000 g, peak
Frequency Response ($\pm 10\%$)	36 - 1,080,000 CPM	0.6 Hz - 18 kHz	Electromagnetic Sensitivity		CE
Frequency Response ($\pm 5\%$)	48 - 600,000 CPM	0.8 Hz - 10 kHz	Sealing		Welded
Dynamic Range		$\pm 100\text{g}$, peak	<u>Physical</u>		
Peak Sensitivity		30-600,000 CPM	Sensing Element		PZT Ceramic
Non-Linearity		$\leq 1\%$	Sensing Structure		Shear Mode
Transverse Sensitivity		$\leq 5\%$	Weight	0.35 oz	10 grams
<u>Electrical</u>			Case Material		Titanium
Settling Time	< 2 Seconds		Mounting Thread		10-32 UNF
Voltage Source	18-30 VDC		Connector (Non-Integral)		10-32
Constant Current Excitation	2-10 mA		Resonant Frequency	2,640,000 CPM	44 kHz
Spectral Noise @ 10 Hz	100 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting Hardware Supplied	10-32 Stud	M5x.8 Adapter Stud
Spectral Noise @ 100 Hz	19 $\mu\text{g}/\sqrt{\text{Hz}}$		Calibration Certificate		CA10
Spectral Noise @ 1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$				
Output Impedance	< 100 ohm				
Bias Output Voltage	10-14 VDC				
Case Isolation	Case Ground				

Typical Frequency Response

