

TDB110 Series

Test and Measurement Accelerometer, Top Exit 10-32 Coaxial Connector,
10-32 Mounting, 50 mV/g, $\pm 10\%$



TEST & MEASUREMENT PRODUCTS



Product Features

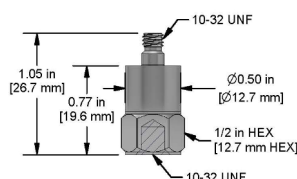
General Purpose Test & Measurement Accelerometer

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

TDB110

Coaxial Connector

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TDB110	M/TDB110	<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>		
Non-Linearity		$\leq 1\%$	Sensing Element		PZT Ceramic
Transverse Sensitivity		$\leq 5\%$	Sensing Structure		Shear Mode
<u>Electrical</u>			Weight	0.35 oz	10 grams
Settling Time		<2 Seconds	Case Material		Titanium
Voltage Source		18-30 VDC	Mounting Thread		10-32 UNF
Constant Current Excitation		2-10 mA	Connector (Non-Integral)		10-32
Spectral Noise @ 10 Hz		100 $\mu\text{g}/\sqrt{\text{Hz}}$	Resonant Frequency	2,640,000 CPM	44 kHz
Spectral Noise @ 100 Hz		19 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Hardware Supplied	10-32 Stud	M5x.8 Adapter Stud
Spectral Noise @ 1000 Hz		5 $\mu\text{g}/\sqrt{\text{Hz}}$	Calibration Certificate		CA10
Output Impedance		<100 ohm			
Bias Output Voltage		10-14 VDC			
Case Isolation		Case Ground			

Typical Frequency Response

