

TFA110 Series

Test and Measurement Accelerometer, Side Exit 10-32 Coaxial Connector,
10-32 Mounting, 500 mV/g, $\pm 10\%$



TEST & MEASUREMENT PRODUCTS



Product Features

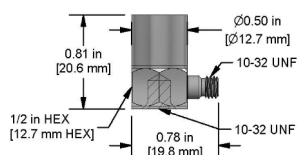
General Purpose Test & Measurement Accelerometer

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

TFA110

Coaxial Connector

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TFA110	M/TFA110	<u>Environmental</u>		
Sensitivity ($\pm 10\%$)	500 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	60 - 600,000 CPM	2 Hz - 10 kHz	Maximum Shock Protection	10,000 g, peak	
Frequency Response ($\pm 10\%$)	300 - 150,000 CPM	5 Hz - 2.5 kHz	Electromagnetic Sensitivity	CE	
Frequency Response ($\pm 5\%$)	360 - 90,000 CPM	6 Hz - 1.5 kHz	Sealing	Welded	
Dynamic Range	$\pm 16\text{g}$, 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

