

TCA110 Series

Test and Measurement Accelerometer, 10mV/g, Side Edit, 10-32
Coaxial Connector, 10-32 Mounting



Actual
Product
Size
Shown



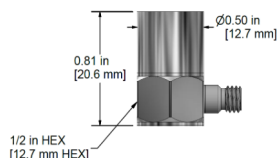
Product Features

- ▶ General Purpose Test & Measurement Accelerometer
- ▶ Lightweight Titanium Case
- ▶ 10kHz ($\pm 5\%$) Frequency Response

TCA110

Coaxial Connector

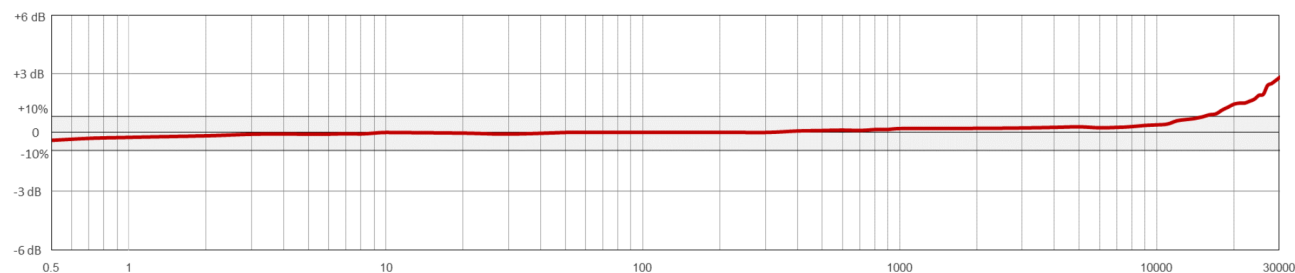
Connector Pin	Polarity
Center	(+) Signal/Power
Shell	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TCA110		<u>Environmental</u>		
Sensitivity ($\pm 10\%$)		10 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ($\pm 3\text{dB}$)	30-1,800,000 CPM	0.5 Hz-30 kHz	Maximum Shock Protection		10,000 g, peak
Frequency Response ($\pm 10\%$)	30-900,000 CPM	0.5 Hz-15 kHz	Electromagnetic Sensitivity		CE (Pending)
Frequency Response ($\pm 5\%$)	30-600,000 CPM	0.5 Hz-10 kHz	Sealing		Welded, Hermetic
Dynamic Range		$\pm 500\text{g}$, 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 (IEPE)		18-30 VDC	Mounting		10-32 UNF
Constant Current Excitation		2-10 mA	Connector		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 $\mu\text{g}/\sqrt{\text{Hz}}$	Calibration Certificate		CA12
Spectral Noise @ 1000 Hz		5 $\mu\text{g}/\sqrt{\text{Hz}}$			Step Calibration
Output Impedance		< 100 ohm			
Bias Output Voltage		10-14 VDC			
Case Isolation		Case Ground			

Typical Frequency Response



Five Year Standard Product, Two Year Custom & Private Labeled Product Warranty

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