

TCA110 Series

Test and Measurement Accelerometer, Side Exit 10-32 Coaxial Connector, 10-32 Mounting, 10 mV/g, ±10%



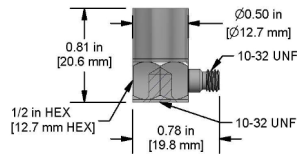
Product Features

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

TCA110

Coaxial Connector

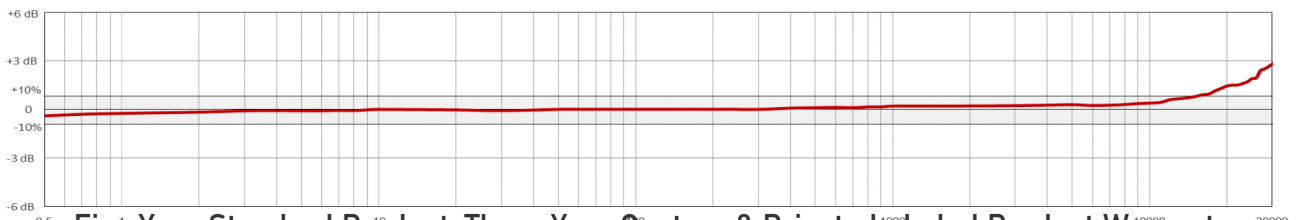
Connector Pin	Polarity
Center	(+) Signal/Power
Shell	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TCA110	TCA120	<u>Environmental</u>		
Sensitivity (±10%)	10 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-1,800,000 CPM	0.5 Hz-30 kHz	Maximum Shock Protection	10,000 g, peak	
Frequency Response (±10%)	30-900,000 CPM	0.5 Hz-15 kHz	Electromagnetic Sensitivity	CE (Pending)	
Frequency Response (±5%)	30-600,000 CPM	0.5 Hz-10 kHz	Sealing	Welded, Hermetic	
Dynamic Range	± 500g, peak		<u>Physical</u>		
Non-Linearity	≤ 1%		Sensing Element	PZT Ceramic	
Transverse Sensitivity	≤ 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 (Non-Integral)	10-32	
Spectral Noise @ 10 Hz	100 µg/√Hz		Resonant Frequency	2,640,000 CPM	44 kHz
Spectral Noise @ 100 Hz	19 µg/√Hz		Mounting Hardware	1/4-28 Adapter Stud	M5x.8 Adapter Stud
Spectral Noise @ 1000 Hz	5 µg/√Hz		Calibration Certificate	CA12 Step Calibration	
Output Impedance	< 100 ohm				
Bias Output Voltage	10-14 VDC				
Case Isolation	Case Ground				

Typical Frequency Response



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

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