

# TEA110 Series

Test and Measurement Accelerometer, Side Exit 10-32 Coaxial Connector, 10-32 Mounting, 100 mV/g, ±10%



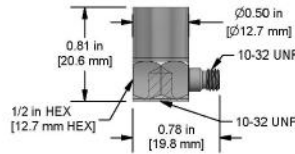
## Product Features

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

### TEA110

Coaxial Connector

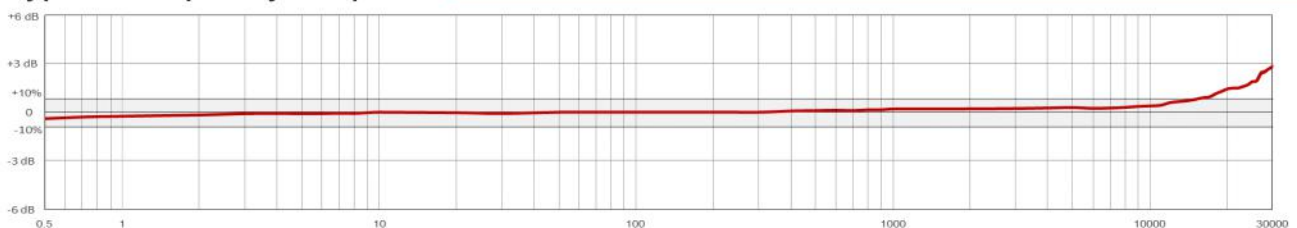
Connector Pin	Polarity
Center	(+) Signal/Power
Shell	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TEA110	TEA120	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Operating 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		± 50g, peak	<b>Physical</b>		
Non-Linearity		≤ 1%	Sensing Element		PZT Ceramic
Transverse Sensitivity		≤ 5%	Sensing Structure		Shear Mode
<b>Electrical</b>			Weight	0.35 oz	10 grams
Settling Time		< 2 Seconds	Case Material		Titanium
Voltage Source (IEPE)		18-30 VDC	Mounting Thread		10-32 UNF
Constant Current Excitation		2-20 mA	Connector (Non-Integral)		10-32
Spectral Noise @ 10 Hz		30 µg/√Hz	Resonant Frequency	2,640,000 CPM	44 kHz
Spectral Noise @ 100 Hz		4 µg/√Hz	Mounting Hardware Supplied	1/4-28 Adapter Stud	M5x.8 Adapter Stud
Spectral Noise @ 1000 Hz		2 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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# TEB110 Series

Test and Measurement Accelerometer, Top Exit 10-32 Coaxial Connector, 10-32 Mounting, 100 mV/g, ±10%



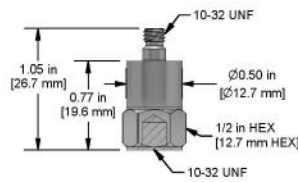
## Product Features

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

### TEB110

Coaxial Connector

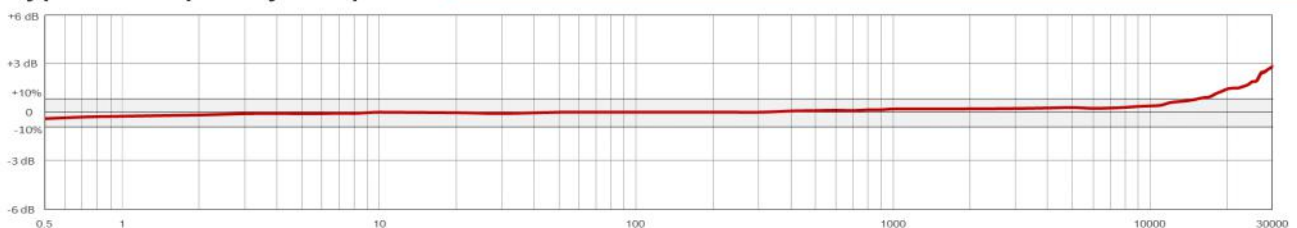
Connector Pin	Polarity
Center	(+) Signal/Power
Shell	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TEB110	TEB120	<u>Environmental</u>		
Sensitivity (±10%)		100 mV/g	Operating 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		± 50g, 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 Thread		10-32 UNF
Constant Current Excitation		2-20 mA	Connector (Non-Integral)		10-32
Spectral Noise @ 10 Hz		30 µg/√Hz	Resonant Frequency	2,640,000 CPM	44 kHz
Spectral Noise @ 100 Hz		4 µg/√Hz	Mounting Hardware Supplied	10-32 Stud	M5 Stud
Spectral Noise @ 1000 Hz		2 µg/√Hz	Calibration Certificate		CA12
Output Impedance		<100 ohm			
Bias Output Voltage		10-14 VDC			
Case Isolation		Case Ground			

## Typical Frequency Response



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# TCA110 Series

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



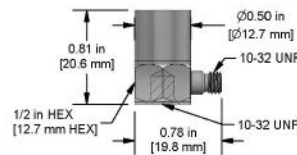
## Product Features

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

### TCA110

Coaxial Connector

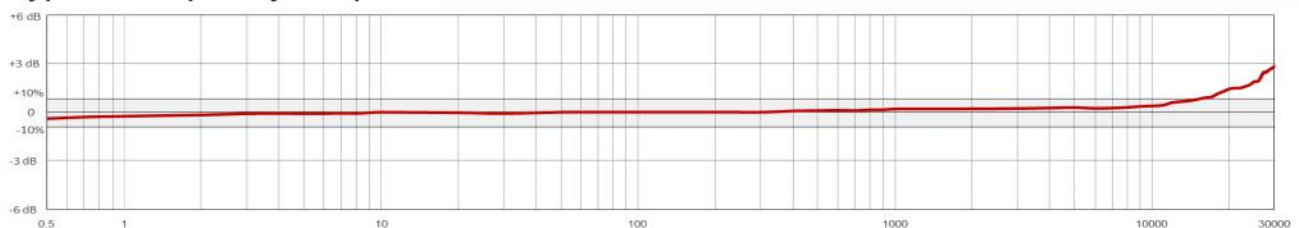
Connector Pin	Polarity
Center	(+) Signal/Power
Shell	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TCA110	M/TCA110	<b>Environmental</b>		
Sensitivity (±10%)		10 mV/g	Operating 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	<b>Physical</b>		
Non-Linearity		≤ 1%	Sensing Element		PZT Ceramic
Transverse Sensitivity		≤ 5%	Sensing Structure		Shear Mode
<b>Electrical</b>			Weight	0.35 oz	10 grams
Settling Time		< 2 Seconds	Case Material		Titanium
Voltage Source (IEPE)		18-30 VDC	Mounting Thread		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 Supplied	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



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# TCB110 Series

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



TEST & MEASUREMENT PRODUCTS



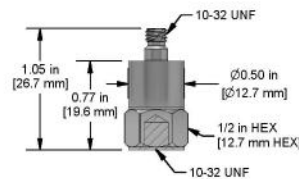
## Product Features

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

### TCB110

Coaxial Connector

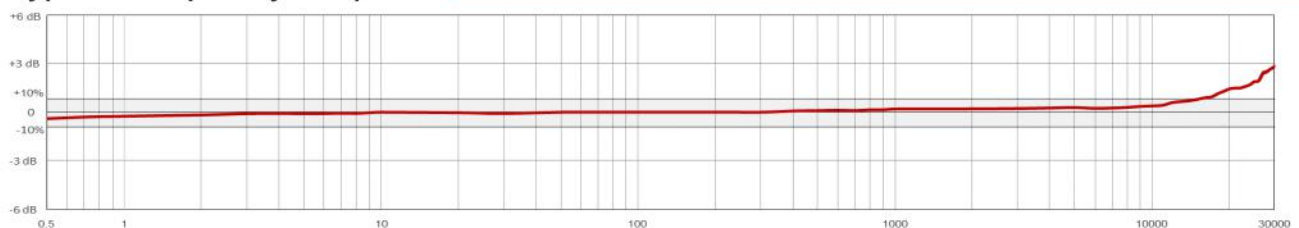
Connector Pin	Polarity
Center	(+) Signal/Power
Shell	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TCB110	M/TCB110	<b>Environmental</b>		
Sensitivity (±10%)		10 mV/g	Operating 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	<b>Physical</b>		
Non-Linearity		≤ 1%	Sensing Element		PZT Ceramic
Transverse Sensitivity		≤ 5%	Sensing Structure		Shear Mode
<b>Electrical</b>			Weight	0.35 oz	10 grams
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Spectral Noise @ 1000 Hz		5 µg/√Hz	Calibration Certificate		CA12
Output Impedance		<100 ohm			
Bias Output Voltage		10-14 VDC			
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## Typical Frequency Response



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