

TCB110 Series

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

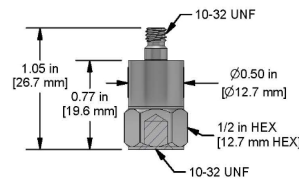


Product Features

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

TCB110 Coaxial Connector

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



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|------------------|---------------|-----------------------------|---------------------|--------------------|
| Part Number | TCB110 | TCB120 | Environmental | | |
| 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 | Physical | | |
| Non-Linearity | | ≤ 1% | Sensing Element | | PZT Ceramic |
| Transverse Sensitivity | | ≤ 5% | Sensing Structure | | Shear Mode |
| Electrical | | | 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 |
| Output Impedance | | <100 ohm | | | |
| Bias Output Voltage | | 10-14 VDC | | | |
| Case Isolation | | Case Ground | | | |

Typical Frequency Response