

AC224 Series



VIBRATION ANALYSIS HARDWARE

Premium Miniature Industrial High G & High Frequency Mini-MIL Accelerometer, Side Exit 2 Pin Mini-MIL Connector, 10 mV/g, ±5%



Product Features

Very High 500g Side Exit Accelerometer for High Amplitude Applications

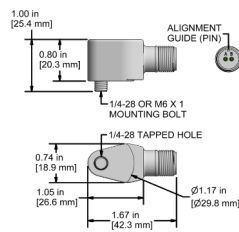
Helps to Detect Gearbox Defects and Other High Frequency Faults

- ▶ 1,0 - 15000 Hz (60-900,000 CPM) Frequency Response
- ▶ 10 mV/g ±5% Sensitivity
- ▶ 32 kHz Resonant Frequency

AC224-1D

2 Pin Mini Mil Connector

| Connector Pin | Polarity |
|---------------|------------------|
| A | (+) Signal/Power |
| B | (-) Common |

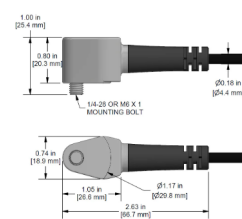


Stock Product

AC224-2D

CB110 Integral Cable

| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |

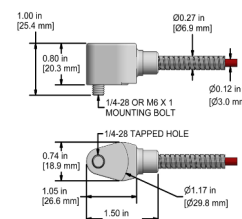


Built To Order

AC224-3D

CB206 Armored Integral Cable

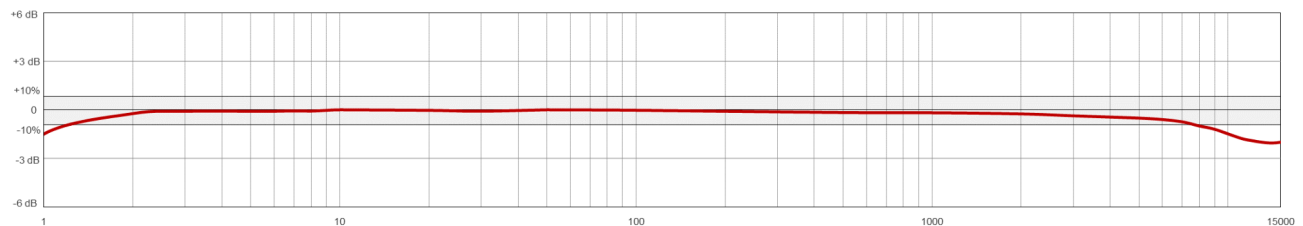
| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|--|--------------|-----------------------------|----------------------|-------------------|
| Part Number | AC224 | M/AC224 | Environmental | | |
| Sensitivity (±5%) | 10 mV/g | | Operating Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±3dB) | 60-900,000 CPM | 1,0-15000 Hz | Maximum Shock Protection | 5,000 g, peak | |
| Frequency Response (±10%) | 90-420,000 CPM | 1,5-7000 Hz | Electromagnetic Sensitivity | CE | |
| Frequency Response (±5%) | 180-180,000 CPM | 3,0-3000 Hz | Sealing | Welded, Hermetic | |
| Dynamic Range | ± 500 g, peak *Vsource ≥ 22V, 12Vbias | | Submersible Depth | 200 ft. | 60 m |
| Electrical | | | SIL Rating | SIL 2 | |
| Settling Time | <2 seconds | | Physical | | |
| Voltage Source (IEPE) | 18-30 VDC | | Sensing Element | PZT Ceramic | |
| Constant Current Excitation | 2-10 mA | | Sensing Structure | Shear Mode | |
| Spectral Noise @ 10 Hz | 100 µg/√Hz | | Weight | 2.1 oz | 60 grams |
| Spectral Noise @ 100 Hz | 19 µg/√Hz | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 1000 Hz | 5 µg/√Hz | | Connector (Non-Integral) | 2 Pin mini-MIL | |
| Output Impedance | <100 ohm | | Resonant Frequency | 1,920,000 CPM | 32000 Hz |
| Bias Output Voltage | 10-14 VDC | | Mounting Torque | 2 to 5 ft. lbs. | 2,7 to 6,8 Nm |
| Case Isolation | >10 ⁸ ohm | | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| | | | Calibration Certificate | CA10 | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

www.ctconline.com | sales@ctconline.com | 585-924-5900