

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	AC224-2D CB110 Integral Cable	AC224-3D CB206 Armored Integral Cable																						
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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
			SIL Rating	SIL 2	
Electrical			Physical		
Settling Time	<2 seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	2.1 oz	60 grams
Spectral Noise @ 10 Hz	100 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	19 µg/√Hz		Connector (Non-Integral)	2 Pin mini-MIL	
Spectral Noise @ 1000 Hz	5 µg/√Hz		Resonant Frequency	1,920,000 CPM	32000 Hz
Output Impedance	<100 ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage	10-14 VDC			1/4-28	M6x1
Case Isolation	>10 ⁸ ohm				