

AC312 Series

Low Voltage Accelerometer, Top Exit 3 Pin Connector, 25 mV/g, ±10%



Product Features

- Ultra Low Power Sensor
- For Battery Powered Transmission Systems
- ▶ 3 Pin MIL Connector
- ▶ Supply Voltage 3-5 Volts
- ▶ Compatible with Many Wireless Transmission Systems

AC312-1A
3 Pin Connector

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

Stock Product

AC312-2C
Integral Cable

Conductor	Polarity
Red	(+) Power
Black	(-) Common
White	(+) Signal

Built To Order

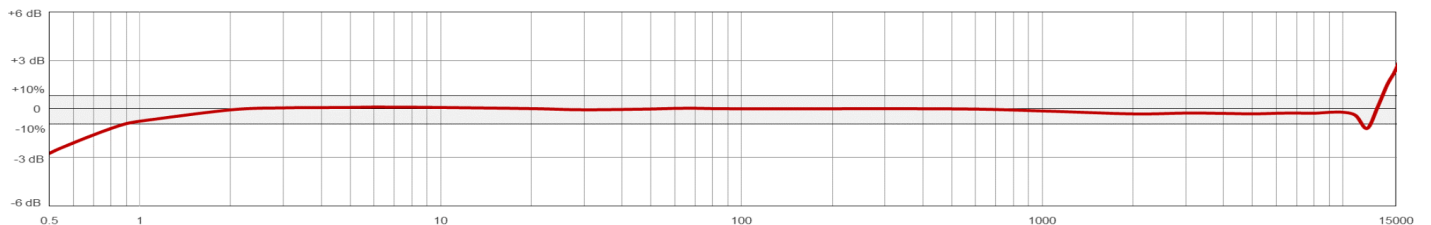
AC312-3C
Armored Integral Cable

Conductor	Polarity
Red	(+) Power
Black	(-) Common
White	(+) Signal

Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC312	M/AC312	Environmental		
Sensitivity (±10%)		25 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	60-720,000 CPM	1,0-12000 Hz	Sealing		IP68
Dynamic Range		± 50 g, peak	Submersible Depth	200 ft.	60 m
Electrical			Physical		
Settling Time		<1.0 second	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		3-5 VDC (10%)	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		60 µg/√Hz	Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz		20 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		5 µg/√Hz	Mounting		1/4-28
Output Impedance		<100 ohm	Connector (Non-Integral)		3 Pin MIL-C-5015
Bias Output Voltage		1.5 V ± 10%	Resonant Frequency	1,860,000 CPM	31000 Hz
Case Isolation		>10 ⁸ ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Supply Current		< 20 µA	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



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