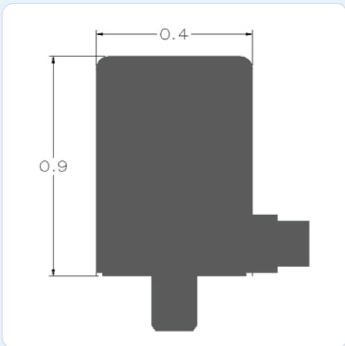


PRODUCT DATA SHEET

A3 Sensor

Very Low Frequency Sensor

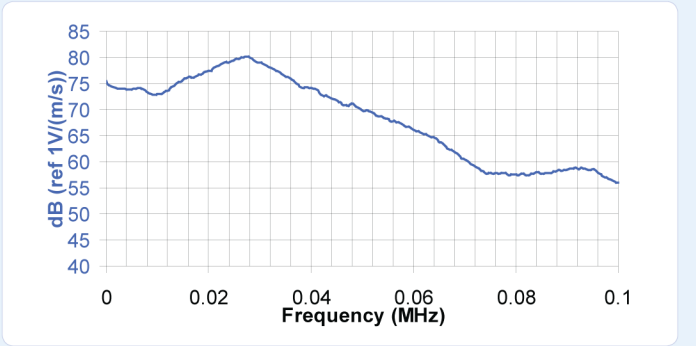


DESCRIPTION AND FEATURES

The A3 is a very low frequency narrow band, industrial sensor with a good sensitivity. It has a good frequency response over the range of 15 – 55 kHz. It is built for industrial applications that need rugged sensors to withstand the harsh operational conditions. The sensor features 304 stainless steel body with a mounting stud and microdot connector exiting on the side and an epoxy seal. The sensor can be easily mounted with a 10-32 stud mount at the bottom.

APPLICATIONS

This sensor is well suited for leak detection, structural health monitoring, vibrating structures, industrial equipment, etc.



OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref V/(m/s).....	83 dB
Peak Sensitivity, Ref V/ μ bar.....	-71 dB
Operating Frequency Range.....	15-55 kHz
Resonant Frequency, Ref V/(m/s).....	30 kHz
Resonant Frequency, Ref V/ μ bar.....	35 kHz
Directionality.....	+/-1.5 dB

Environmental

Temperature Range.....	-65 to 177°C
Shock Limit.....	500 g
Completely enclosed crystal for RFI/EMI immunity	

Physical

Dimensions.....	0.4"OD X 0.9" H
	16 mm OD X 23 mm H
Weight.....	31 grams
Case Material.....	Stainless steel
Face Material.....	Stainless steel
Connector.....	Microdot
Connector Locations.....	Side

ORDERING INFORMATION AND ACCESSORIES

A3.....	A3
Cable (specify length in 'XX' m at end of PN).....	1 m
Preamp to System Cable (Specify length in m).....	1232-1
Preamplifier.....	0/2/4, 2/4/6
Amplifier subsystems ...	AE2A, AE5A or standard AE systems

Sensors include

NIST Calibration Certificate & Warranty

