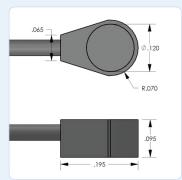


S9225 Sensor

Miniature Sensor





DESCRIPTION AND FEATURES

S9225 miniature sensor with a size of 3.6 mm x 2.4 mm is the smallest AE sensor on offer. It has good sensitivity and a very wide bandwidth. Its small size and negligible weight makes it an ideal candidate for applications imposing severe constraints on the size and weight of the sensors. The sensor features an anodized aluminum cavity with an integral coaxial cable exiting from the side of the sensor with a BNC connector to interface with instrumentation.

APPLICATIONS

The sensor is ideally suited for structural health monitoring of critical infrastructure like aircrafts, tanks etc. It can be used in any application with a noisy environment and requiring a small sensor and very high bandwidth for frequency analysis of the AE signal sources and noise discrimination. It can easily be mounted using epoxy and can be mounted in small and tight spaces.

PRODUCT DATA SHEET

OPERATING SPECIFICATIONS

Dynamic
Peak Sensitivity, Ref V/(m/s)48 dB
Peak Sensitivity, Ref V/µbar77.5 dB
Operating Frequency Range 300-1800 kHz
Resonant Frequency, Ref V/(m/s)250 kHz
Resonant Frequency, Ref V/µbar600 kHz
Directionality+/- 1.5 dB
Environmental
Temperature Range54 to 121°C
Shock Limit500 g
Completely enclosed crystal for RFI/EMI immunity
Physical
Dimensions
3.6 mm OD X 2.4 mm H
Weight<1 gram (10 grams with cable & connector)

Case Material.....Anodized Aluminum

Face Material.....Anodized Aluminum

Connector......BNC on integral cable

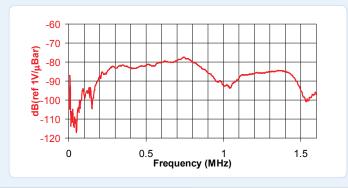
Connector Locations.....Side

ORDERING INFORMATION AND ACCESSORIES

S9225	S9225
Cable (specify cable length)	0.6 m
Preamplifier	0/2/4, 2/4/6
Preamp to System Cable (specify length in 'm').	1234->
Amplifier Subsystems	AE2A, AE5A

Sensors include

NIST Calibration Certificate & Warranty



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