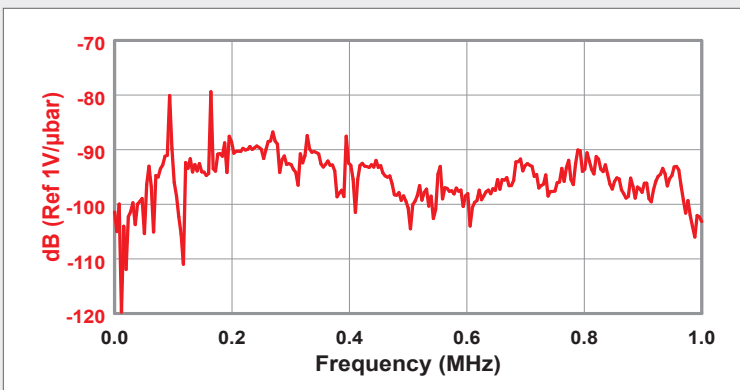
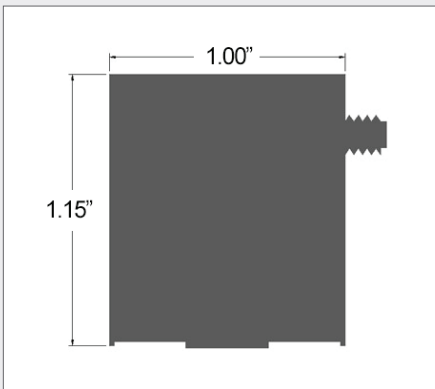


S9208 Sensor

Wideband Sensor



DESCRIPTION AND FEATURES

S9208 is a high fidelity displacement sensor. It is specially designed to provide a flat frequency response to surface acoustic displacement over its entire frequency bandwidth. It is primarily designed for research applications for studying the surface displacement of structures due to different AE modes. It can be used in applications requiring frequency analysis to characterize different kinds of defects. The sensor features a rugged stainless steel body with a microdot connector on the side of the sensor.

APPLICATIONS

The sensor can be used in applications requiring a flat frequency response over the sensor bandwidth and very sensitive to the surface acoustic waves. It can easily be mounted using epoxy.

WARNING

The S9208 is a special high fidelity displacement sensor and as a result it is very fragile and must not be exposed to shocks in excess of 10g.

OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref 1V/(m/s).....45 dB
 Peak Sensitivity, Ref 1V/μbar.....-85 dB
 Operating Frequency Range 20-1000 kHz
 Resonant Frequency, Ref 1V/(m/s)500 kHz
 Resonant Frequency, Ref 1V/μbar500 kHz
 Directionality..... +/--1.5 dB

Environmental

Temperature Range..... -54 to 121°C
 Shock Limit..... 10 g

Physical

Maximum Sample Rate..... 1000 samples per
 second, all channels active

Physical & Environmental

Dimensions 1"OD X 1.15"H
25.4 mm OD X 29.2 mm H
 Weight 90 grams
 Case MaterialStainless Steel
 Face Material.....Stainless Steel
 ConnectorMicrodot
 Connector LocationsSide

ORDERING INFORMATION AND ACCESSORIES

S9208 S9208
 Cable (specify length in '-XX' m at end of PN)
 1232-1
 Pre-amplifierIL-LP-WS 0/2/4, 2/4/6
 Preamp to System Cable (specify length in 'm')
 1234-X
 Amplifier SubsystemsAE2A, AE5A

Sensors include

Characterization Certificate & Warranty

