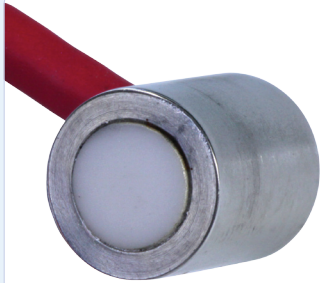


**PRODUCT DATA SHEET**

**Mini30S Sensor**

Miniature Sensor

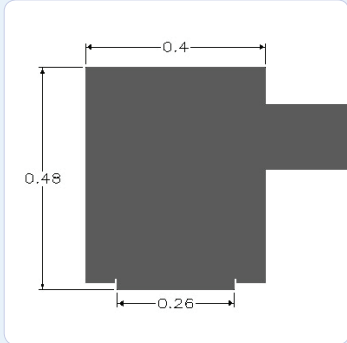


**DESCRIPTION AND FEATURES**

Mini30S sensor features a rugged stainless steel cavity with an integrated cable. Its small size and high bandwidth makes the sensor an ideal candidate for applications where high fidelity AE signals from multiple modes are a necessity. The sensor features a small diameter, a BNC connector at the end of a coaxial cable exiting from the side of the sensor.

**APPLICATIONS**

The high sensitivity and bandwidth makes it ideal for structural health monitoring of critical structures like aircrafts, storage tanks etc. Typical applications include monitoring for fatigue and corrosion cracking in metals, delaminations and fiber breakage in composites. With its high bandwidth it can be used in applications requiring frequency analysis to determine the sources of AE signals and noise discrimination. It can be mounted easily using epoxy.



**OPERATING SPECIFICATIONS**

*Dynamic*

Peak Sensitivity, Ref V/(m/s) ..... 62 dB  
 Peak Sensitivity, Ref V/ $\mu$ bar ..... -65 dB  
 Operating Frequency Range ..... 270-970 KHz  
 Resonant Frequency, Ref V/ $\mu$ bar ..... 325 KHz  
 Directionality ..... +/- 1.5 dB

*Environmental*

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

*Physical*

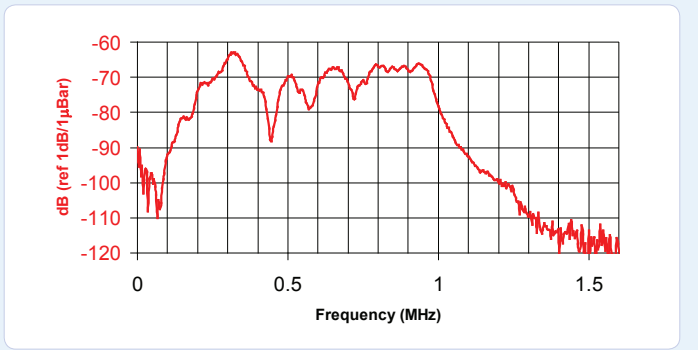
Dimensions ..... 0.4"OD X 0.5"H  
 ..... 10 mm OD X 12 mm H  
 Weight ..... 6 grams  
 Case Material ..... Stainless steel  
 Connector ..... BNC on integral cable  
 Connector Locations ..... Side exit coax, .05" dia and 36" long

**ORDERING INFORMATION AND ACCESSORIES**

MINI30S ..... MINI30S  
 Cable (specify cable length in 'm') ..... 1 m  
 Preamplifier ..... 0/2/4, 2/4/6  
 Preamp to System Cable (specify length in 'm') ..... 1234-X  
 Amplifier Subsystems ..... AE2A, AE5A

*Sensors include*

NIST Calibration Certificate & Warranty



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