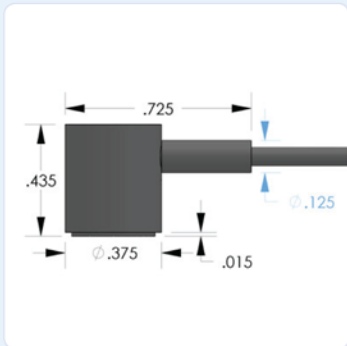


**PRODUCT DATA SHEET**

**Micro30S Sensor**

Miniature Sensor

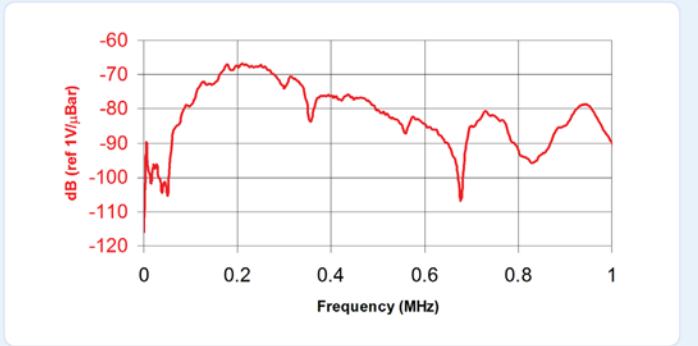


**DESCRIPTION AND FEATURES**

Micro30S sensor has a good frequency response over the range of 150 – 400 kHz. It has good sensitivity to AE signals even in presence of high background noise. Its small size and good bandwidth makes the sensor an ideal candidate for applications that have size and weight constraints on the sensors. The sensor features a small diameter, an integrated coaxial cable exiting from the side of the sensor.

**APPLICATIONS**

The high sensitivity and bandwidth makes them 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. It can be mounted easily using epoxy.



**OPERATING SPECIFICATIONS**

*Dynamic*

Peak Sensitivity, Ref V/(m/s)..... 65 dB  
 Peak Sensitivity, Ref V/μbar ..... -67.5 dB  
 Operating Frequency Range ..... 150-400 KHz  
 Resonant Frequency, Ref V/(m/s)..... 125 KHz  
 Resonant Frequency, Ref V/μbar ..... 225 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 (g)..... 5 grams  
 Case Material..... Stainless steel  
 Face Material..... Ceramic  
 Connector..... Microdot  
 Connector Locations..... Side

**ORDERING INFORMATION AND ACCESSORIES**

Micro30 ..... Micro30  
 Cable (specify length in 'XX' m at end of PN) ..... 1232-1  
 Preampfier ..... 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

