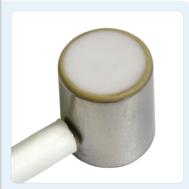


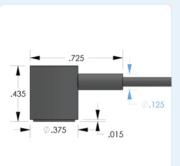




# **Micro80S Sensor**

Very Wideband Frequency Miniature Sensor





### **DESCRIPTION AND FEATURES**

Micro80S sensor has a good frequency response over the range of 200 – 900 kHz. It has good sensitivity to AE signals even in presence of high background noise. Its small size and high 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 with a BNC connector 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.

**PRODUCT DATA SHEET** 

# **OPERATING SPECIFICATIONS**

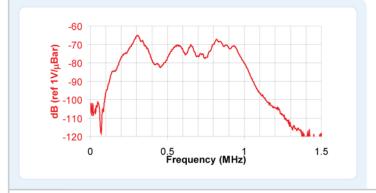
Dynamic

Peak Sensitivity, Ref V/(m/s)	57 dB
Peak Sensitivity, Ref V/μbar	65 dB
Operating Frequency Range	200-900 kHz
Resonant Frequency, Ref V/(m/s)	250 kHz
Resonant Frequency, Ref V/µbar	325 kHz
Directionality	+/- 1.5 dB
Environmental	
Temperature Range	-65 to 1770C
Shock Limit	
	•
Completely enclosed crystal for RFI/EI	vii immunity
Physical	
Dimensions	0.4"OD X 0.5"H
	10 mm OD X 12 mm H
Weight	5 grams
Case Material	Stainless steel
Face Material	Ceramic
Connector	BNC on integral cable
Connector Locations	Side

# **ORDERING INFORMATION AND ACCESSORIES**

Micro80S	Micro80S
Cable (specify cable length in 'XX' m)	1 m
Pre-amplifier	0/2/4, 2/4/6
Cable (Pre-amp to system, specify length)	1234-X
Amplifier Subsystems	AE2A, AE5A

Sensors include
NIST Calibration Certificate & Warranty







Россия, 125367, Москва, ул. Габричевского д. 5, корп. 1. Тел.: +7(495) 789-4549 Факс: +7(495) 789-4536 E-mail: mail@diapac.ru