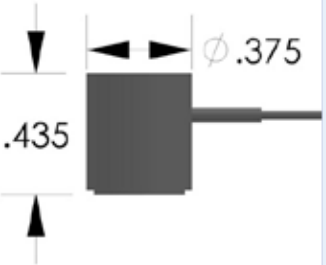
MISTRAS

PHYSICAL ACOUSTICS CORPORATION

PRODUCT DATA SHEET

Micro200HF Sensor

Very Wideband Frequency Miniature Sensor

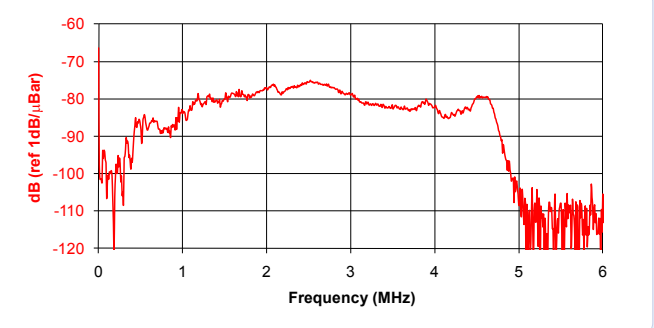


DESCRIPTION AND FEATURES

MICRO-200HF sensor has a good frequency response over the range of 500 – 4500 kHz. 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, microdot connector exiting from the side of the sensor.

APPLICATIONS

The rugged stainless steel cavity along with its small size and weight makes it an ideal sensor for structural health monitoring. The sensor can be used in applications requiring very high bandwidth to determine the predominant frequency bandwidth of AE sources and noise discrimination. It can be easily mounted using epoxy.



OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref V/(m/s) ..... 62 dB
Peak Sensitivity, Ref V/µbar ..... -72 dB
Operating Frequency Range ..... 500-4500 kHz
Resonant Frequency, Ref V/(m/s) ..... 2500 kHz
Directionality ..... N/A

Environmental

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

Physical

Dimensions ..... 0.375"OD X 0.435"H
9.5 mm OD X 11 mm H
Weight ..... 5 grams
Case Material ..... Stainless steel
Face Material ..... Ceramic
Connector ..... BNC
Connector Locations ..... Side

ORDERING INFORMATION AND ACCESSORIES

Micro200HF Micro200HF
Magnetic Hold-Down ..... MHWD
Preamplifier 0/2/4, 2/4/6
Amplifier Subsystems AE2A, AE5A
Preamp to System Cable (specify length in 'm') 1234-X

Sensors include

NIST Calibration Certificate & Warranty

ISO 9001

WORLDWIDE HEADQUARTERS:
195 Clarksville Rd •
Princeton Jct, NJ 08550 • USA
T: +1.609.716.4000 • F: +1.609.716.0706
E-MAIL: sales.systems@mistrasgroup.com

CANADA	T: +1.403.556.1350	**HOLLAND**	T: +31.010.245.0325	**SCANDINAVIA**	T: +46(0)31.252040
CHINA	T: +86.10.5877.3672	**INDIA**	T: +91.22.2586.2444	**S. AMERICA**	T: +55.11.3082.5111
FRANCE	T: +331.498.26040	**JAPAN**	T: +81.33.498.3570	**UK**	T: +44(0)1954.231.612
GERMANY	T: +49.040 2000.4025	**MIDDLE EAST**	T: +44(0)1954.231.612		
GREECE	T: +30.210.2846.801	**RUSSIA**	T: +7495.789.4549		

Specifications subject to change without notice. Copyright © 2013 MISTRAS Group, Inc. All Rights Reserved.