

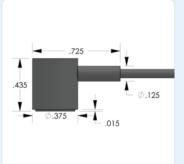




Micro80D Sensor

Miniature Differential Sensor





MICRO80D is a differential sensor designed to isolate the sensing terminals electrically from the cavity. This electrical isolation makes the sensor particularly useful for applications where high background electrical noise is a major concern. The sensor has a very high sensitivity and bandwidth. It has a good frequency response over the range of 175-900 kHz. The two signal leads from the sensing element feed into a differential pre-amplifier which eliminates common-mode noise resulting in a lower noise output from the pre-amplifier. This sensor features a rugged steel construction and a dual BNC connector with an integrated twin axial cable exiting on the side.

APPLICATIONS

This sensor is well suited for structural health monitoring of large structures like storage tanks, pipelines etc. Wideband sensors are well suited for research applications where a high fidelity AE response is required. It can be easily mounted using ероху.

DESCRIPTION AND FEATURES

PRODUCT DATA SHEET

OPERATING SPECIFICATIONS

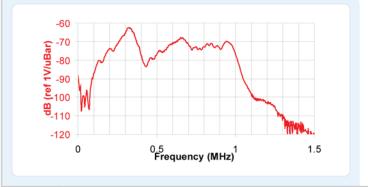
Dynamic
Peak Sensitivity, Ref V/(m/s)57 dB
Peak Sensitivity, Ref V/μbar65 dB
Operating Frequency Range 175-900 KHz
Resonant Frequency, Ref V/(m/s)250 KHz
Resonant Frequency, Ref V/µbar325 KHz
Directionality +/-1.5 dB
Environmental
Environmental
Temperature Range65 to 177ºC
Shock Limit500 g
Completely enclosed crystal for RFI/EMI immunity
Physical
Dimensions
10 mm OD X 12 mm H
Weight5 grams
Case MaterialStainless steel
Face Material Ceramic
Connector Dual BNC
Connector Locationsside

ORDERING INFORMATION AND ACCESSORIES

Micro80D Micro80	D
Cable (specify length '-XX' m at end of PN)1	m
Pre-amplifier	D
Amplifier Subsystems AE2A, AE5	A
Cable (Pre-amplifier to system) 1243	-X

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