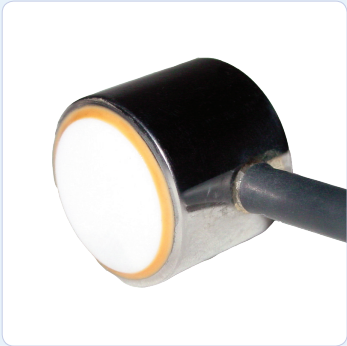


PRODUCT DATA SHEET

D9241A Sensor

30 kHz Frequency Acoustic Emission Sensor



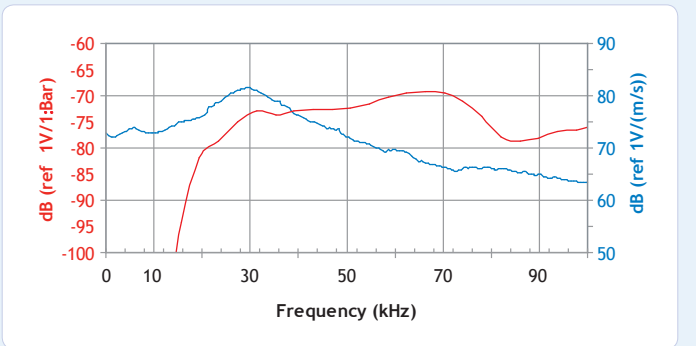
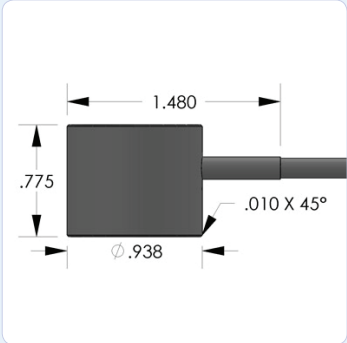
DESCRIPTION AND FEATURES

The D9241A is a high sensitivity, low resonance frequency, low noise sensor with a differential output. It has very good EMI shielding ability.

Featuring a rugged stainless steel cavity, ceramic face, and integral cable with differential BNC connector, the D9241A provides high common noise rejection and low noise, even in electrically noisy environments.

APPLICATIONS

The sensor can be used in any place that requires a sensor having very good EMI shielding, low frequency and high sensitivity. One of typical application for the sensor is to monitor big power transformers.



OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref V/(m/s)..... 82 dB
 Operating Frequency Range..... 20-60 kHz
 Resonant Frequency, Ref V/(m/s).....30 kHz
 Directionality..... N/A

Environmental

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

Physical

Dimensions.....0.936"OD X 0.788"H
 23.77 mm OD X 20.01 mm H
 Weight.....56 grams
 80 grams with 1 meter cable & connector
 Case Material.....Stainless steel
 Face Material..... Ceramic
 Connector..... BNC Differential
 Connector Locations.....Side
 Seal.....Epoxy
 Sensor to Preamp Cable (1 meter)..... Integral

ORDERING INFORMATION AND ACCESSORIES

D9241A.....D9241A
 Magnetic Hold-Down.....MHD9241A
 Amplifier subsystems ... AE2A, AE5A or standard AE systems
 Preamplifier..... 0/2/4, 2/4/6
 Preamp to System Cable (specify length in 'm')..... 1234 - X

Sensors include

NIST Calibration Certificate & Warranty



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