



D9241A Sensor

30 kHz Frequency Acoustic Emission Sensor

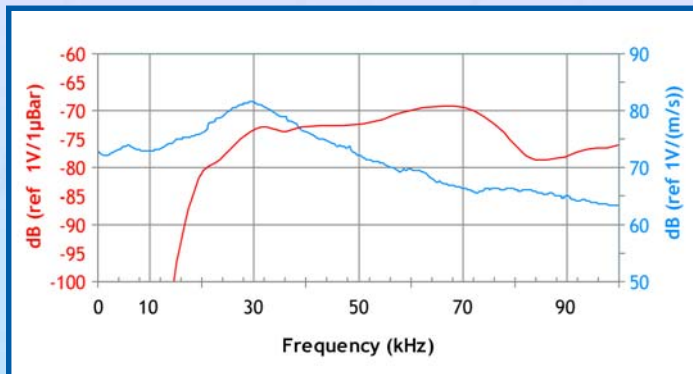
Description and Features

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 for sensor ground isolation 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 sensor to have very good EMI shielding, low frequency and high sensitivity. One of typical application for the sensor is to monitor big power transformers.



Frequency response of the D9241A. Calibration based on ASTM E1106; Calibration based on ASTM E976.

Operating Specifications

Dynamic

Peak Sensitivity, Ref V/(m/s); Ref [V/µbar]	82 [-70] dB
Operating Frequency Range	20 - 180 kHz
Resonant Frequency, Ref V/(m/s); Ref [V/µbar]	30 kHz
Directionality	N/A

Environmental

Temperature Range	-45 to 125°C
Shock Limit	500 g
Completely enclosed crystal for RFI/EMI immunity	

Physical

Dimensions	0.936" diameter x 0.788" h (23.77 x 20.01 mm)
Weight	56 grams 82 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	AE2A
Preamplifier	0/2/4, 2/4/6
Preamp to System Cable (specify length in meters)	1234 - X

Sensors include

NIST Calibration Certificate & Warranty



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