

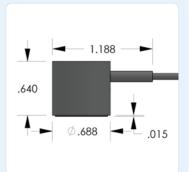




R15D Sensor

General Purpose Differential Sensor





DESCRIPTION AND FEATURES

R15D 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. It has a very good sensitivity and frequency response over the range of 50 – 400 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

The sensor can be used in applications that require very good EMI shielding, high sensitivity. Typical applications for the sensor include monitoring big power transformers, large steel and concrete structures.

PRODUCT DATA SHEET

OPERATING SPECIFICATIONS

Dynamic
Peak Sensitivity, Ref V/(m/s)58 dB
Peak Sensitivity, Ref V/μbar62 dB
Operating Frequency Range 50-400 kHz
Resonant Frequency, Ref V/(m/s)75 kHz
Resonant Frequency, Ref V/µbar150 kHz
Environmental
Temperature Range65 to 177°C
Shock Limit
Completely enclosed crystal for RFI/EMI immunity
Completely enclosed crystal for Krizelvii immunity
Physical
Dimensions
18 mm OD X 17 mm H
Weight25 grams
Case MaterialStainless steel
Face MaterialCeramic
Connector Dual BNC
Connector Locations Side

ORDERING INFORMATION AND ACCESSORIES

R15DR15D
Cable (specify cable length '-XX' m at end of PN) 1 m
Preamp to System Cable (specify length in 'm') 1234-X
Magnetic Hold-Down MHSTD
Pre-amplifier 0/2/4, 2/4/6, IL40D
Amplifier subsystems AE2A, AE5A or standard AE systems
Sensors include

Grounding...... Internal (isolated from casing)

NIST Calibration Certificate & Warranty





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