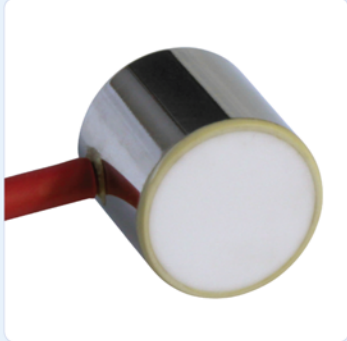


PRODUCT DATA SHEET

R15S Sensor

General Purpose Sensor

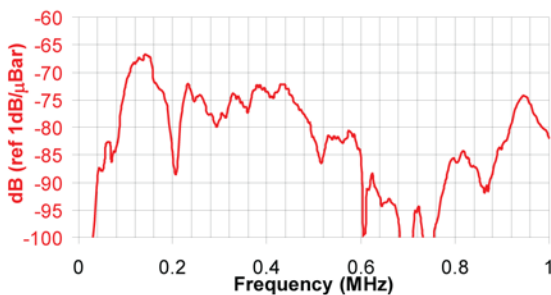
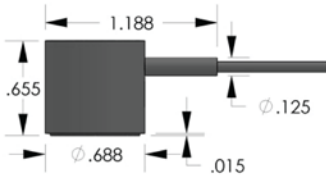


DESCRIPTION AND FEATURES

R15S is a narrow band sensor with a very high sensitivity. It has a very good frequency response over the range of 50-400 kHz. This sensor is an ideal candidate for applications requiring high sensitivity to AE signals at medium frequencies. This sensor features a rugged steel construction with an integrated coaxial cable exiting on the side with a BNC connector. The small size of the sensor makes it particularly suitable for mounting in tight spaces.

APPLICATIONS

This sensor is well suited for structural health monitoring of large structures like storage tanks, pipelines etc. Narrow band sensors are well suited for applications requiring the sensor to pick up low level AE signals. It can be easily mounted using epoxy.



OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref V/(m/s)	69 dB
Peak Sensitivity, Ref V/μbar	-63 dB
Operating Frequency Range	50-400 kHz
Resonant Frequency, Ref V/(m/s)	75 kHz
Resonant Frequency, Ref V/μbar	150 kHz
Directionality	+/-1.5 dB

Environmental

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

Physical

Dimensions	0.65"OD X 0.7" H 16.5 mm OD X 18 mm H
Weight	34 grams
Case Material	Stainless steel
Face Material	Ceramic
Connector	BNC
Connector Locations	Side

ORDERING INFORMATION AND ACCESSORIES

R15S	R15S
Cable (specify length 'XX' m at end of PN)	1 m
Magnetic Hold-Down	MHSTD
Pre-Amplifier	0/2/4, 2/4/6
Amplifier subsystems	AE2A, AE5A or standard AE systems

Sensors include

NIST Calibration Certificate & Warranty

