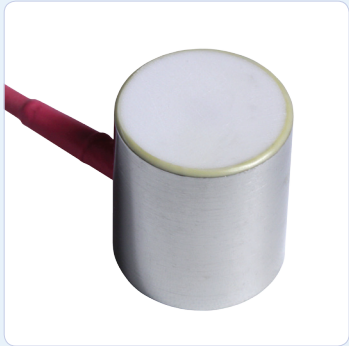


PRODUCT DATA SHEET

R6S Sensor

General Purpose Sensor

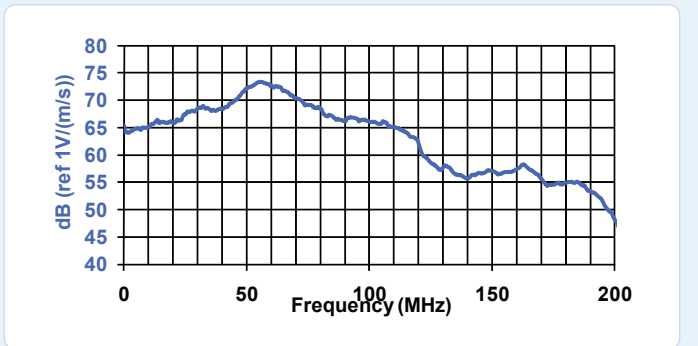
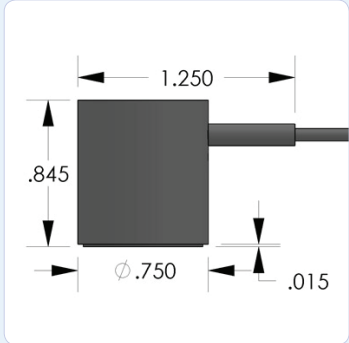


DESCRIPTION AND FEATURES

R6S is a low frequency narrow band sensor with a very high sensitivity. It has a good frequency response over the range of 35 – 100 kHz. This sensor is an ideal candidate for applications requiring high sensitivity to AE signals at low frequencies. It 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).....	75 dB
Peak Sensitivity, Ref V/ μ bar.....	-64 dB
Operating Frequency Range.....	35-100 kHz
Resonant Frequency, Ref V/(m/s).....	55 kHz
Resonant Frequency, Ref V/ μ bar.....	90 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.....	0.75"OD X 0.84"H 19 mm OD X 22 mm H
Weight.....	28 grams
Case Material.....	Stainless steel
Face Material.....	Ceramic
Connector.....	BNC
Connector Locations.....	Side

ORDERING INFORMATION AND ACCESSORIES

R6S.....	R6S
Cable (specify cable length 'XX' m at end of PN).....	1 m
Magnetic Hold-Down.....	MHSTD
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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