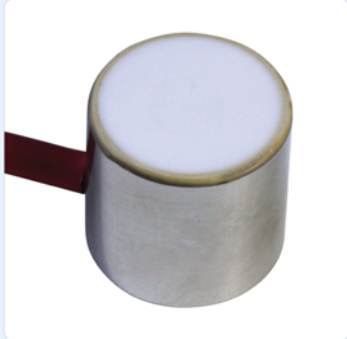


PRODUCT DATA SHEET

R30S Sensor

General Purpose Sensor

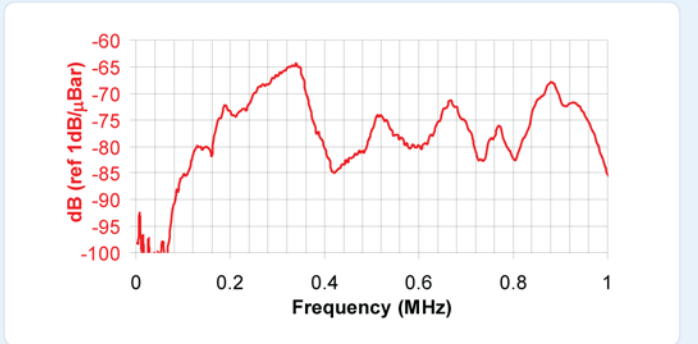
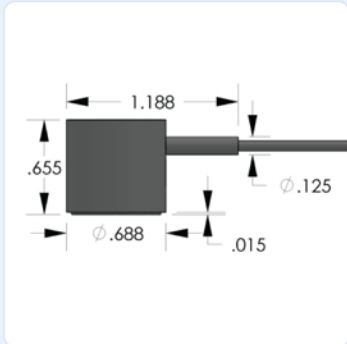


DESCRIPTION AND FEATURES

R30S is designed as a narrow band sensor to have a very high sensitivity to AE signals. It has a very good frequency response over the range of 150 – 400 kHz. This sensor features a rugged steel construction with an integrated coaxial cable exiting from 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).....	58 dB
Peak Sensitivity, Ref V/μbar.....	-62 dB
Operating Frequency Range.....	150-400 kHz
Resonant Frequency, Ref V/(m/s).....	300 kHz
Resonant Frequency, Ref V/μbar.....	330 kHz

Environmental

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

Physical

Dimensions.....	0.7"OD X 0.65"H
	19 mm OD X 17 mm H
Weight.....	
Case Material.....	Stainless steel
Face Material.....	Ceramic
Connector.....	BNC
Connector Locations.....	Side

ORDERING INFORMATION AND ACCESSORIES

R30S.....	R30S
Cable (specify cable length 'XX'm).....	1 m
Magnetic Hold-Down.....	MHSTD
Pre-Amplifier.....	0/2/4, 2/4/6
Amplifier subsystems ... AE2A, AE5A or standard AE systems	
Preamp to System Cable (specify length in 'm').....	1234-X

Sensors include

NIST Calibration Certificate & Warranty

