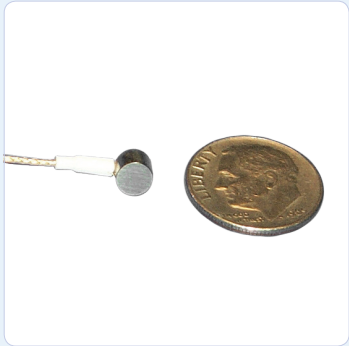


PRODUCT DATA SHEET

PICO Sensor
Miniature Sensor

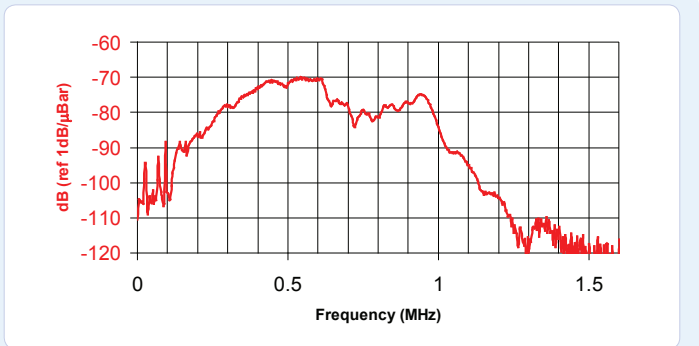
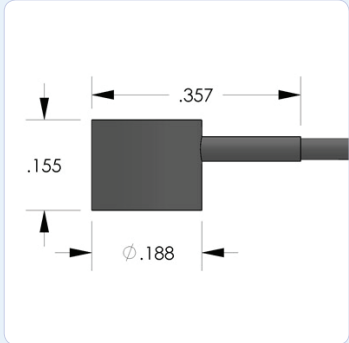


DESCRIPTION AND FEATURES

PICO sensor has a good bandwidth and very high sensitivity to AE signals. Its small size makes the sensor an ideal candidate for applications requiring a low profile sensor with negligible weight. The sensor features a small diameter, integral coax cable exiting from the side of the sensor with a BNC connector on the end.

APPLICATIONS

The sensor can be used in any application with a noisy environment and requiring a small size, mid-band frequency response. Their high sensitivity and bandwidth makes them ideal for structural health monitoring of critical structures like aircrafts, storage tanks etc. Typical applications include monitoring for fatigue and corrosion cracking in metals, delaminations and fiber breakage in composites. It can easily be mounted using epoxy and can be mounted in small and tight spaces.



OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref V/(m/s).....	54 dB
Peak Sensitivity, Ref V/μbar.....	-68 dB
Operating Frequency Range.....	200-750 kHz
Resonant Frequency, Ref V/(m/s).....	250 kHz
Resonant Frequency, Ref V/μbar.....	550 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.....	0.2"OD X 0.15"H
	5 mm OD X 4 mm H
Weight.....	<1 gram (12 grams with cable & connector)
Case Material.....	Stainless Steel
Face Material.....	Stainless Steel
Connector.....	BNC on integral coax cable
Connector Locations.....	Side

ORDERING INFORMATION AND ACCESSORIES

PICO.....	PICO
Pre-amplifier.....	0/2/4, 2/4/6
Preamp to System Cable (specify length in 'm').....	1234-X
Amplifier Subsystems.....	AE2A, AE5A

Sensors include

NIST Calibration Certificate & Warranty



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