

**PRODUCT DATA SHEET**

**Nano30 Sensor**

Medium Frequency Resonant Miniature Sensor

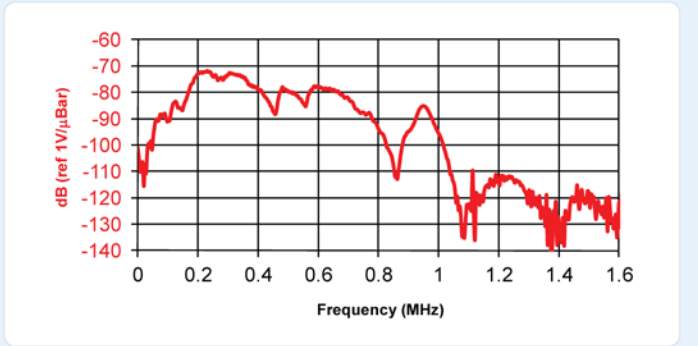
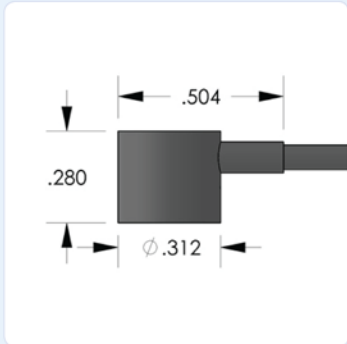


**DESCRIPTION AND FEATURES**

The Nano-30 miniature AE sensor has a resonant response at 300Khz and a good frequency response over the range of 125 – 750 kHz. Its size makes the sensor an ideal candidate for applications where small size is important. The sensor features a small, 1 meter, integral coax cable, which exits from the side of the sensor with a BNC connector on the end.

**APPLICATIONS**

The sensor can be used in any application requiring a small, mid-band frequency response. 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).....	62 dB
Peak Sensitivity, Ref V/μbar.....	-72 dB
Operating Frequency Range.....	125-750 KHz
Resonant Frequency, Ref V/(m/s).....	140 KHz
Resonant Frequency, Ref V/μbar.....	300 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.....	0.3"OD X 0.3"H
.....	8 mm OD X 8 mm H
Weight.....	2 grams (8 with cable & connector)
Case Material.....	Stainless steel
Face Material.....	Ceramic
Connector.....	BNC
Connector Locations.....	Side

**ORDERING INFORMATION AND ACCESSORIES**

Nano30.....	Nano30
Cable (specify cable length in meters).....	1 m
Preamplifier.....	0/2/4, 2/4/6
Amplifier Subsystems.....	AE2A, AE5A
Preamp to System Cable (specify length in 'm').....	1234-X

*Sensors include*

NIST Calibration Certificate & Warranty

