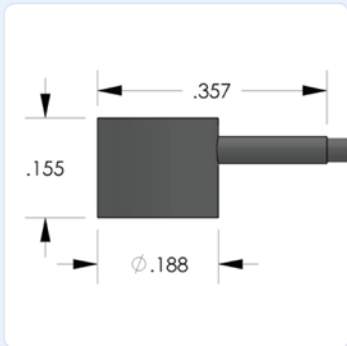


PRODUCT DATA SHEET
PICO HF-1.2 Sensor

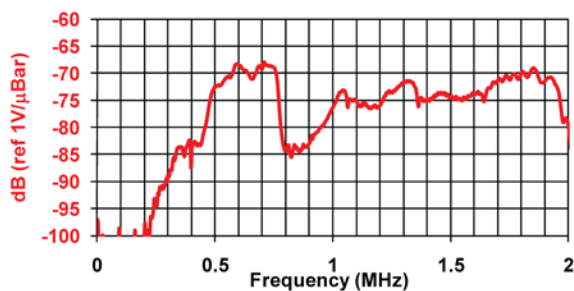
600 kHz Frequency, Micro-Miniature Sensor


DESCRIPTION AND FEATURES

The PICO HF-1.2 is a micro-miniature sensor with a wide-band and relatively flat frequency response over the range of 500 – 1850 kHz. Its small size makes the sensor an ideal candidate for computer hard disk examination and other applications requiring very small size, low weight and wideband AE sensor response. A small diameter, integral coax cable exits from the side of the sensor with a BNC connector on the other end.

APPLICATIONS

Due to its extremely small size, this sensor is ideal for applications such as hard disk monitoring, where small size and low mass sensors are required. Additionally, the PICO HF-1.2 can be used in research applications or other applications where a small aperture, high fidelity AE response is required. The sensor is useful in research applications, where frequency analysis of the AE signal is needed and in helping determine the predominant frequency band of AE sources for noise discrimination and selection of suitable lower cost, general purpose AE sensors.


OPERATING SPECIFICATIONS
Dynamic

Peak Sensitivity, Ref V/μbar -72 dB
 Operating Frequency Range 500-1850 KHz
 Resonant Frequency, Ref V/(m/s) 600 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 (7 with cable & connector)
 Case Material Stainless steel
 Face Material Ceramic
 Connector Integral cable with BNC Connector
 Seal Epoxy
 Sensor to Preamp Cable
 Integral, 0.033" diameter x 24" length

ORDERING INFORMATION AND ACCESSORIES

PICO HF-1.2 PICO HF-1.2
 Cable (specify length in 'XX' m at end of PN) 1 m
 Preamplifier 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

