

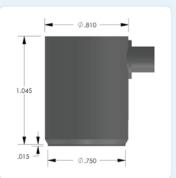


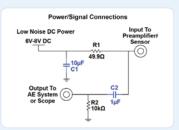


PK6I Sensor

Medium Frequency Integral Preamplifier Resonant Sensor







DESCRIPTION AND FEATURES

The PK6I sensor is a medium frequency, resonant, acoustic emission sensor with an integral, ultra low noise, low power, filtered, 26dB preamplifier, which can drive up to 200 meters of cable. This sensor represents an improvement in both noise and low power consumption performance, with noise level below 3 uV and power consumption of 25 mW. The PK6I features a strong stainless steel, integrated body structure. The sensor has smaller size and the same frequency response as the R6I sensor.

The integrated Auto Sensor Test (AST*) capability allows these sensors to pulse as well as receive. This feature lets you verify the sensor coupling and performance at any time before, during or after the test.

APPLICATIONS

The PK6I sensor has been designed to be used with the Pocket AE, a small handheld AE system, or with the Sensor Highway II, an outdoor rated, on-line monitoring system.

PRODUCT DATA SHEET

OPERATING SPECIFICATIONS

Dynamic
Peak Sensitivity, Ref V/(m/s)106 dB
Operating Frequency Range 35-65 kHz
Resonant Frequency, Ref V/(m/s)~55 kHz
Directionality+/- 1.5 dB
Environmental
Temperature Range35 to 80ºC
Shock Limit500 g
Completely enclosed crystal for RFI/EMI immunity
Physical
Dimensions
20.6 mm OD X 27 mm H
Weight45 grams
Case Material Stainless Steel
Face MaterialCeramic
ConnectorSMA
Connector LocationsSide
Electrical
Gain 26 dB
Power Requirements4-7 VDC @ 5 mA
Operating/Max Current 5/35 mA
Noise Level (RMS RTI)<3 μV

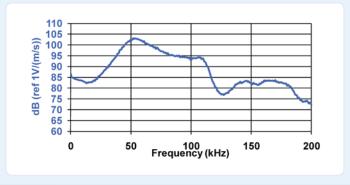
ORDERING INFORMATION AND ACCESSORIES

PK6I
1234-SMA/BNC-X
MHPK15I
AE2A, AE5A

Sensors include

NIST Calibration Certificate & Warranty

* AST — Auto Sensor Testing feature allows AE systems to control the sensor as a pulser and a receiver at the same time. It can therefore characterize its own condition as well as send out a simulated acoustic emission wave that other sensors can detect, so the condition of the nearby sensors also can be tested.







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