MODEL 378A06

1/2" FREE-FIELD MICROPHONE & PREAMPLIFIER

- Frequency: 3.15 Hz - 40 kHz (±3dB)
- Max amplitude: 150 dB (3% distortion)
- Inherent noise: 22 dB(A)

TYPICAL APPLICATIONS
- Environmental monitoring
- Railway and horn testing
- Sonic boom measurements

STANDARDS COMPLIANCE
- IEC 61094-4 WS2F compliant, and designed to be used in an IEC 61672 Class 1 compliant system for sound level meter use
- Calibration reference microphone traceable to NIST, PTB or DFM National Labs
- PCB calibration service accredited to ISO 17025, ANSI-Z540.3 by A2LA or ILAC

USE OF MODEL 378A06

Model 378A06 is a 1/2 in (12 mm) prepolarized microphone and preamplifier combination for applications where high frequencies (up to 40 kHz) need to be measured accurately. As an alternative to a high sensitivity microphone, it has an enhanced upper dynamic range (150 dB) which minimizes overloading. Previously, these applications required a 1/4" microphone system which is both higher in price and inherent noise than the 378A06 system.

Acoustic pressure waves may be altered by objects in the sound field including the microphone itself. The 378A06 corrects for its own presence, providing more accurate measurements within a free-field.

POLARIZATION VOLTAGE – ICP® (0V) PREPOLARIZED

PCB® is the inventor of ICP® sensor power technology. All manufacturers of IEC 61094-4 compliant prepolarized (0V) microphones use the technology that PCB developed. Prepolarized microphones operate on 2-20 mA constant current supply and use coaxial cables resulting in significant per channel cost savings over the PCB 200V models. Other ICP® compatible sensors such as accelerometers, force, strain, and pressure sensors use the same power supplies and cables as prepolarized microphones, further reducing set-up time and initial investment costs.
PCB® QUALITY COMMITMENT

PCB is uniquely equipped with a state of the art, CNC machining facility, allowing control over quality, pricing, and delivery. Investments in clean rooms, anechoic, and environmental test chambers, combined with our rigorous testing and aging process, ensures our products will survive in demanding environmental conditions. PCB has the industry’s best 5-year warranty with a “Total Customer Satisfaction” policy.

PCB® QUALITY COMMITMENT

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PCB Piezotronics, Inc. is a designer and manufacturer of microphones, vibration, pressure, force, torque, load, and strain sensors, as well as the pioneer of ICP® technology used by design engineers and predictive maintenance professionals worldwide for test, measurement, monitoring, and control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, OEM applications, and more. With a worldwide customer support team, 24-hour SensorLine™, and a global distribution network, PCB® is committed to Total Customer Satisfaction. Visit www.pcb.com for more information. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

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MTS SENSORS

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