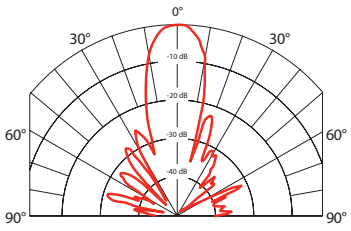
AT200

SPECIFICATIONS

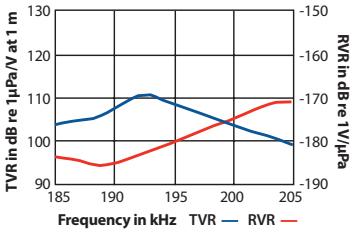
Best Operating Frequency: 200 kHz, ±4%
Minimum Transmit Sensitivity at Best Transmit Frequency: 105 dB re 1µPa/V at 1 m
Minimum Receive Sensitivity at Best Receive Frequency: -174 dB re 1V/µPa
Minimum Parallel Resistance: 180 Ω, ±30%
Minimum and Maximum Sensing Range*: 10 cm to 3 m
Typical Sensing Range: 12 cm to 2 m
Free (1 kHz) Capacitance: 500 pF, ±20% pF
Beamwidth (@ -3 dB Full Angle): 12°, ±2°
Maximum Driving Voltage (2% Duty Cycle Tone Burst): 500 V_{pp}
Operating Temperature: -40°C to 90°C
Weight: 6 g
Housing Material: Glass filled polyester
Acoustic Window: Glass reinforced epoxy

*Pulse-Echo Mode. Minimum and maximum ranges are best case scenarios. Actual range may vary, depending on drive circuitry and signal processing.

Directivity Pattern



Transmit & Receive Voltage Response



Impedance Magnitude & Phase

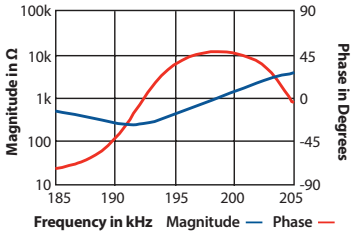
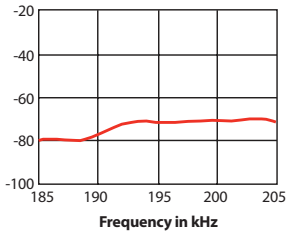


Figure of Merit (Sum of TVR & RVR)



200 kHz

AIRDUCER® Ultrasonic Transducer

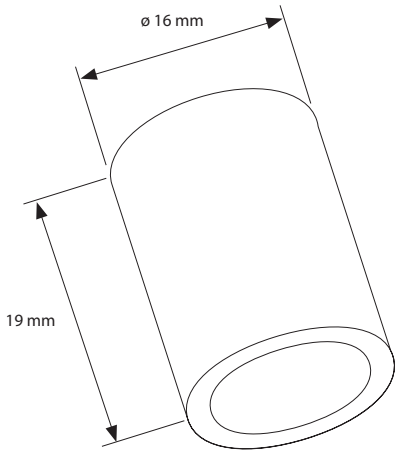
Applications

- Level measurement
- Automation control
- Proximity
- Obstacle avoidance
- Robotics

Features

- Rugged sealed construction
- Cylindrical design allows for installation in various applications
- Available in PVDF housing for use in chemically aggressive environments

Dimensions



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RoHS COMPLIANT

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