AT225



SPECIFICATIONS

Best Operating Frequency: 228 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency:

101 dB re 1μ Pa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency: -180 dB re 1V/μPa

Minimum Parallel Resistance: 400Ω , $\pm 30\%$

Minimum and Maximum Sensing Range*: 8 cm to 2.5 m

Typical Sensing Range: 10 cm to 1.5 m Free (1 kHz) Capacitance: 450 pF, ±20% pF Beamwidth (@ -3 dB Full Angle): 15°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 500 V_{pp}

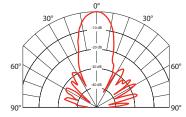
Operating Temperature: -40°C to 90°C

Weight: 4 g

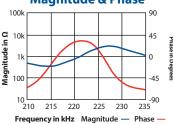
Housing Material: Glass filled polyester **Acoustic Window:** Glass reinforced epoxy

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

Directivity Pattern



Impedance Magnitude & Phase



Transmit & Receive Voltage Response

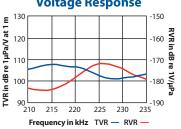
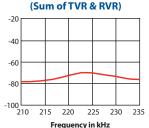


Figure of Merit



228 kHz

AIRDUCER® Ultrasonic Transducer

Applications

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

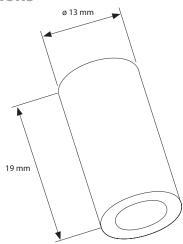
Features

- Rugged sealed construction
- Cylindrical design allows for installation in various applications

Options

Optional circuit board mounting pins (as shown in photo above)

Dimensions



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