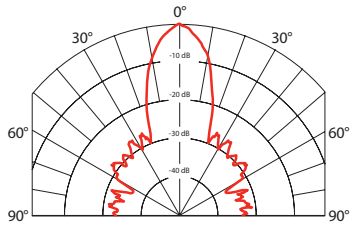
AT300

SPECIFICATIONS

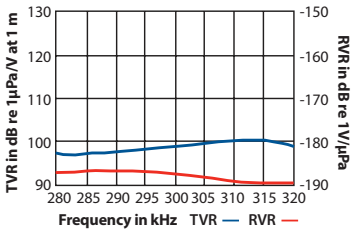
Best Operating Frequency: 300 kHz, ±4%
Minimum Transmit Sensitivity at Best Transmit Frequency: 95 dB re 1µPa/V at 1 m
Minimum Receive Sensitivity at Best Receive Frequency: -180 dB re 1V/µPa
Minimum Parallel Resistance: 650 Ω, ±30%
Minimum and Maximum Sensing Range*: 4 cm to 1 m
Typical Sensing Range: 5 cm to 50 cm
Free (1 kHz) Capacitance: 450 pF, ±20% pF
Beamwidth (@ -3 dB Full Angle): 10°, ±2°
Maximum Driving Voltage (2% Duty Cycle Tone Burst): 200 V_{pp}
Operating Temperature: -40°C to 70°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



Transmit & Receive Voltage Response



Impedance Magnitude & Phase

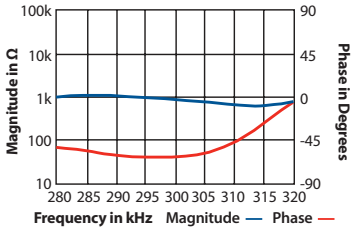
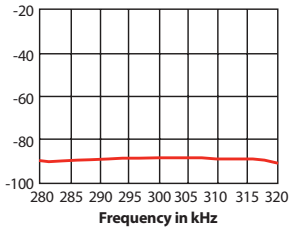


Figure of Merit (Sum of TVR & RVR)



300 kHz

AIRDUCER® Ultrasonic Transducer

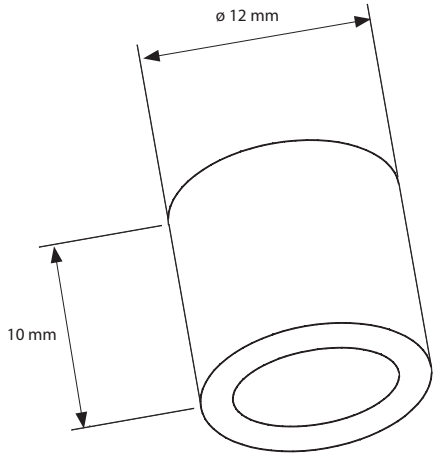
Applications

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

Features

- Rugged sealed construction
- Cylindrical design allows for installation in various applications
- Short-range measurement capabilities

Dimensions



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