

AT300

NEW

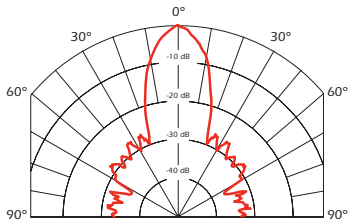


SPECIFICATIONS

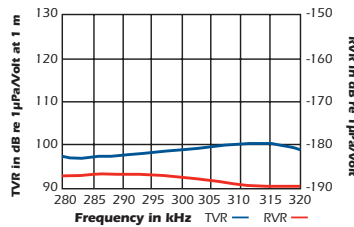
- Best Operating Frequency:** 300 kHz, $\pm 4\%$
- Minimum Transmit Sensitivity at Best Transmit Frequency:** 95 dB, 1 μ Pa/V at 1 m
- Minimum Receive Sensitivity at Best Receive Frequency:** -180 dB re 1V/ μ Pa
- Minimum Parallel Resistance:** 650 Ω , $\pm 30\%$
- Minimum and Maximum Sensing Range*:** 4 cm to 1 m
- Typical Sensing Range:** 5 cm to 50 cm
- Free (1 kHz) Capacitance:** 450 pF, ± 135 pF
- Beamwidth (@ -3 dB Full Angle):** 10°, $\pm 2^\circ$
- Maximum Driving Voltage (2% Duty Cycle Tone Burst):** 400 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



Transmit & Receive Voltage Response



Impedance Magnitude & Phase

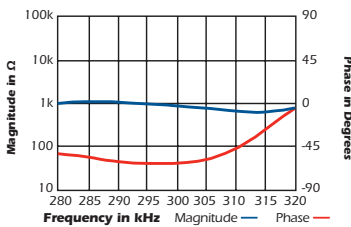
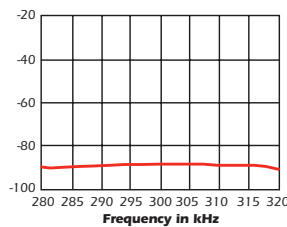


Figure of Merit (Sum of TVR & RVR)



300 kHz

AIRDUCER® Ultrasonic Transducer

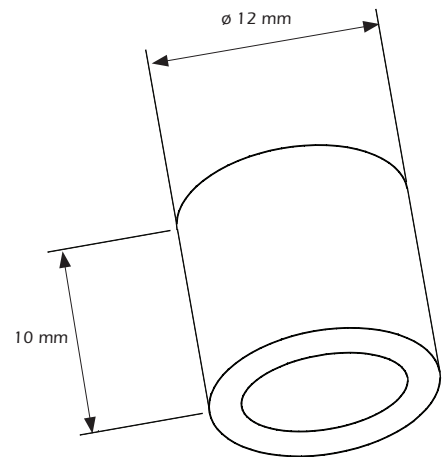
Applications

- 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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