

SPECIFICATIONS

Best Operating Frequency: 50 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency:

106 dB, 1µPa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency:

Minimum Parallel Resistance: 450 Ω , ±30%

Minimum and Maximum Sensing Range*: 30 cm to 15 m

Typical Sensing Range: 35 cm to 10 m Free (1 kHz) Capacitance: 5,700 pF, ±500 pF Beamwidth (@ -3 dB Full Angle): 12°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,500 V_{DD}

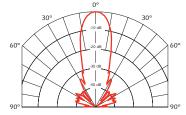
Operating Temperature: -40°C to 90°C

Weight: 160 g

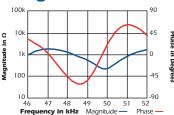
Housing Material: Glass filled polyester Acoustic Window: Glass reinforced epoxy

*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

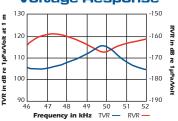
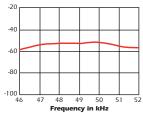


Figure of Merit (Sum of TVR & RVR)



AIRDUCER® Ultrasonic Transducer

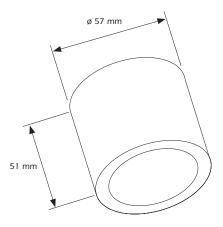
Applications

- Level measurement
- Open channel flow
- Proximity
- Obstacle avoidance
- Robotics

Features

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

Dimensions









AT50_rF 04/13/09

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