

#### SPECIFICATIONS

Best Operating Frequency: 50 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency:

106 dB re 1 $\mu$ Pa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency:-162 dB re 1V/µPa

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, ±20% pF

Beamwidth (@ -3 dB Full Angle): 12°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,500  $\rm V_{\rm pp}$ 

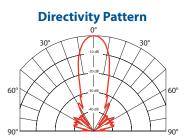
Operating Temperature: -40°C to 90°C

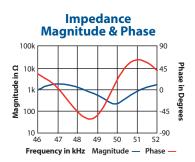
Weight: 160 g

Housing Material: Glass filled polyester

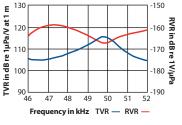
Acoustic Window: Glass reinforced epoxy

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

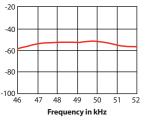




#### Transmit & Receive Voltage Response







# **50 kHz** AIRDUCER<sup>°</sup> Ultrasonic Transducer

# **Applications**

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

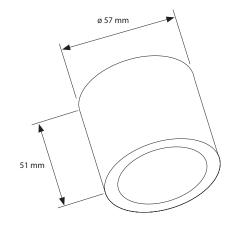
## **Features**

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

### **Options**

- Available in PVDF housing for use in chemically aggressive environments
- 10 KΩ thermistor available for temperature compensation

## **Dimensions**



©Airmar Technology Corporation

AT50\_rO 06/26/18

As Airmar constantly improves its products, all specifications are subject to change without notice. All specifications typical at 22°C. AIRDUCER is a registered trademark of Airmar Technology Corporation. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies, which are not affiliated with Airmar.





