

# AT225

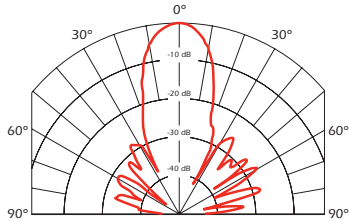


## SPECIFICATIONS

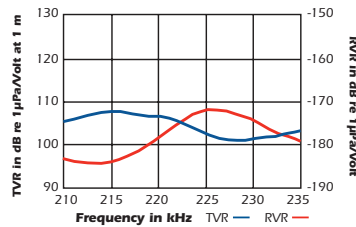
- Best Operating Frequency:** 228 kHz,  $\pm 4\%$
- Minimum Transmit Sensitivity at Best Transmit Frequency:** 101 dB, 1  $\mu\text{Pa/V}$  at 1 m
- Minimum Receive Sensitivity at Best Receive Frequency:** -180 dB re 1V/ $\mu\text{Pa}$
- Minimum Parallel Resistance:** 400  $\Omega$ ,  $\pm 30\%$
- Minimum 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,  $\pm 100$  pF
- Beamwidth (@ -3 dB Full Angle):** 15°,  $\pm 2^\circ$
- Maximum Driving Voltage (2% Duty Cycle Tone Burst):** 500 V<sub>pp</sub>
- 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.

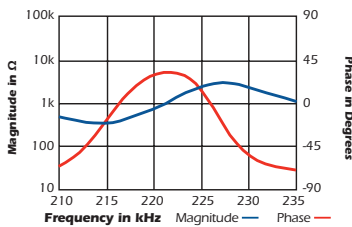
### Directivity Pattern



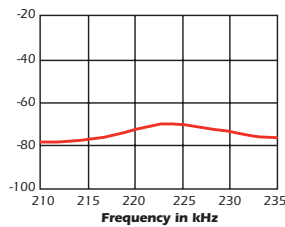
### Transmit & Receive Voltage Response



### Impedance Magnitude & Phase



### Figure of Merit (Sum of TVR & RVR)



## 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

### Dimensions

