

AT75

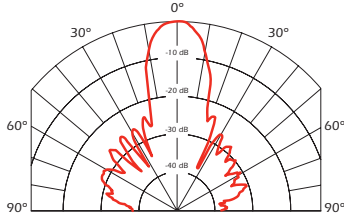


SPECIFICATIONS

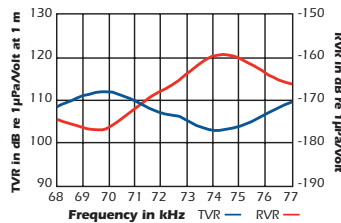
- Best Operating Frequency:** 75 kHz, $\pm 4\%$
- Minimum Transmit Sensitivity at Best Transmit Frequency:** 111 dB, 1 $\mu\text{Pa/V}$ at 1 m
- Minimum Receive Sensitivity at Best Receive Frequency:** -162 dB re 1V/ μPa
- Minimum Parallel Resistance:** 170 Ω , $\pm 30\%$
- Minimum and Maximum Sensing Range*:** 20 cm to 10 m
- Typical Sensing Range:** 25 cm to 7 m
- Free (1 kHz) Capacitance:** 1,850 pF, ± 200 pF
- Beamwidth (@ -3 dB Full Angle):** 15°, $\pm 2^\circ$
- Maximum Driving Voltage (2% Duty Cycle Tone Burst):** 1,000 V_{pp}
- Operating Temperature:** -40°C to 90°C
- Weight:** 45 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

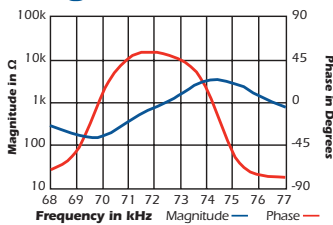
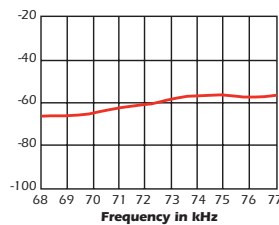


Figure of Merit (Sum of TVR & RVR)



75 kHz

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

Options

- AR style with threaded cap available
- Complete assembly or kit versions

Dimensions

