ATK120

SPECIFICATIONS

Best Operating Frequency: 125 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency: 102 dB, 1µPa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency: -172 dB re 1V/µPa

Minimum Parallel Resistance: 500 Ω, ±30%

Minimum and Maximum Sensing Range*: 15 cm to 5 m

Typical Sensing Range: 20 cm to 3 m

Free (1 kHz) Capacitance: 1,000 pF, ±200 pF

Beamwidth (@ -3 dB Full Angle): 10°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 800 V_{pp}

Operating Temperature: -40°C to 90°C

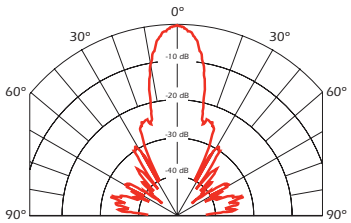
Weight: 30 g

Housing Material: PVDF

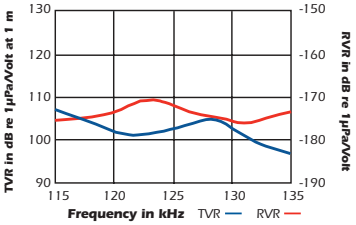
Acoustic Window: PVDF

*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

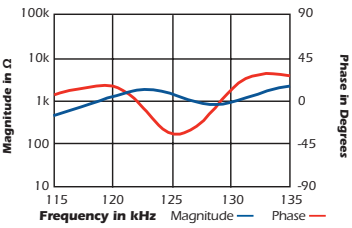
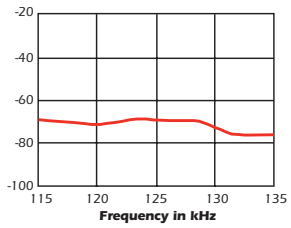


Figure of Merit (Sum of TVR & RVR)



125 kHz

AIRDUCER® Ultrasonic Transducer

Applications

- Level measurement
- Automation control
- Food Processing
- Proximity
- Obstacle avoidance
- Robotics

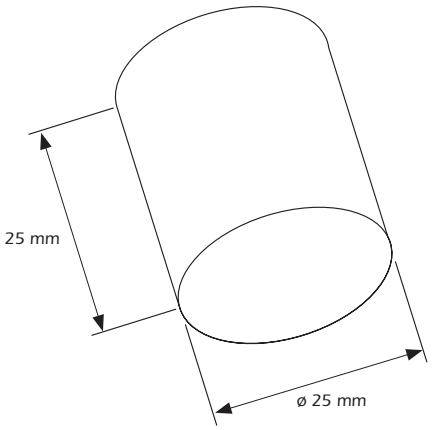
Features

- Rugged one-piece PVDF housing
- Resistant to chemically aggressive environments
- Cylindrical design allows for installation in various applications
- Improved deadband

Options

- Temperature sensor

Dimensions



AIRMAR® TECHNOLOGY CORPORATION

Sensing Technology

RoHS COMPLIANT

ISO 9001:2000

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