ATK75



SPECIFICATIONS

Best Operating Frequency: 75 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency:

110 dB re 1µPa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency: -160 dB re 1V/μPa

Minimum Parallel Resistance: 150 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, ±20% pF Beamwidth (@ -3 dB Full Angle): 14°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): $1,000 \, \text{V}_{\text{pp}}$

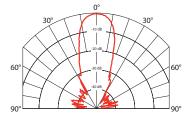
Operating Temperature: -40°C to 90°C

Weight: 50 g

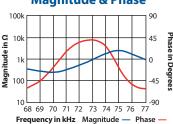
Housing Material: Kynar® 720 Acoustic Window: Kynar® 720

*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

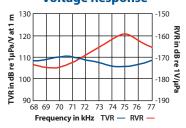
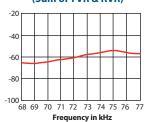


Figure of Merit (Sum of TVR & RVR)



75 kHz

AIRDUCER® Ultrasonic Transducer

Applications

- Level measurement in chemically aggressive environments
- Automation control
- Food and beverage processing
- Proximity sensing
- Obstacle avoidance

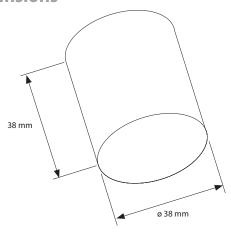
Features

- Rugged one-piece PVDF housing is U.S. FDA compliant
- Cylindrical design allows for installation in various applications

Options

• 10 K Ω thermistor available for temperature compensation

Dimensions



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