

Ultrasonic Air Transducer Technical Data Sheet

Airmar ultrasonic transducers deliver the highest level of performance in the most challenging environments and they are the key component for our customers success and their applications. Our precision tuned air-ranging transducers are tried and true performers, even when used for difficult tasks. American-made from the highest quality materials, Airmar's ultrasonic transducers provide reliable, long-lasting excellence to any measurement system.

1 MHz – 29mm

Nominal Operating Frequency: 1 MHz

Minimum Parallel Resistance: 35Ω

Operating Temperature: -20°C to 60°C

Nominal Beam Width (@-3 dB Full Angle): 4°

Max Driving Voltage (2% Duty Cycle Tone Burst): 200V

Note: Optimally, performance measurements should be taken when the

-170

-180

-190

-200

-210

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Free (1kHz) Capacitance: 3500pF

SPECIFICATIONS

Nominal TVR: 176

Nominal RVR: -203

Weight: 10 g

Technical Data

190

180

170

150

140

TVR

Frequency (kHz)

1000 1100 1200

Housing Material: PEEK® Acoustic Window: PEEK

transducer reaches a steady state.

Q:4

1 MHz

Ultrasonic Transducer

Applications

- In-Pipe Flow Monitoring
- Open Channel Flow
- Wastewater Industry

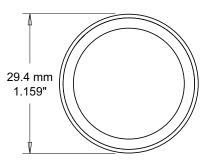
Features

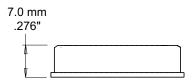
- Robust PEEK Housing
- Low Profile
- Minimal Side Lobes

Options

• M28 X 1.0 – 4g Threaded Housing

Dimensions





Additional Resources



Applying Ultrasonic Technology

T1 Developer Board

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Airmar's T1 Developer's Transceiver Module can be used for evaluation of 1 MHz Transducers.

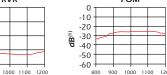
Airmar Technology Corporation 1MHz 29mm_rC 05/17/ Airmar constantly improves its products, all specifications are subject to change without notice. Al ecifications typical at 22°C. Factory Mutual approved models suitable for: Class I, Division 1, Hazard cations. PEEK is a trademark of Victrex USA, Inc. AMPHENOL is a registered trademark of Amphenol ropration. Other company or product names mentioned in this document may be trademarks or pistered trademarks of their respective companies, which are not affiliated with Airmar.



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TVR in dB re 1µPa/Volt at 1 m RVR in dB re 1 Volt/µPa





Frequency (kHz)

Frequency (kHz)

Directivity Pattern

