

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



1 MHz

Ultrasonic Transducer

Applications

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

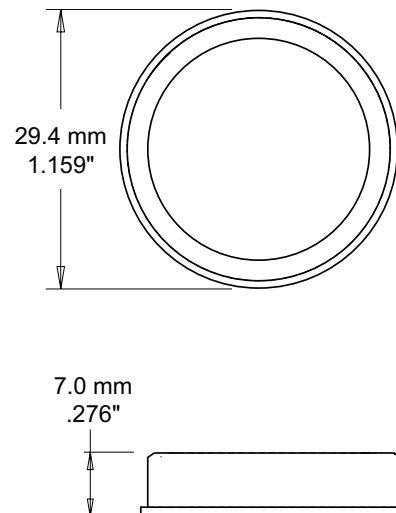
Features

- Robust PEEK Housing
- Low Profile
- Minimal Side Lobes

Options

- M28 X 1.0 – 4g Threaded Housing

Dimensions



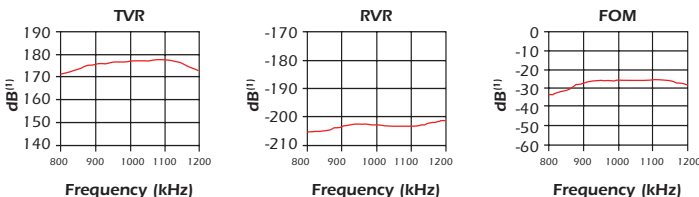
SPECIFICATIONS

Nominal Operating Frequency: 1 MHz
Nominal TVR: 176
Nominal RVR: -203
Q: 4
Minimum Parallel Resistance: 35Ω
Free (1kHz) Capacitance: 3500pF
Nominal Beam Width (@-3 dB Full Angle): 4°
Max Driving Voltage (2% Duty Cycle Tone Burst): 200V_{pp}
Operating Temperature: -20°C to 60°C
Weight: 10 g
Housing Material: PEEK®
Acoustic Window: PEEK

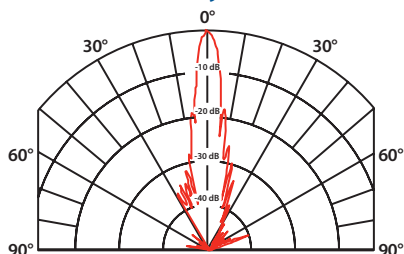
Note: Optimally, performance measurements should be taken when the transducer reaches a steady state.

Technical Data

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



Directivity Pattern



Additional Resources

Theory of Operations



Applying Ultrasonic Technology



T1 Developer Board



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