

# 500 kHz Air transducer



Model: A500B1

P/N: H2KA500KB1CD00



## Features

High performance

High reliability

Chemical resistance

Patented technologies

## Major Applications

Gas flow meter

Gas concentration meter

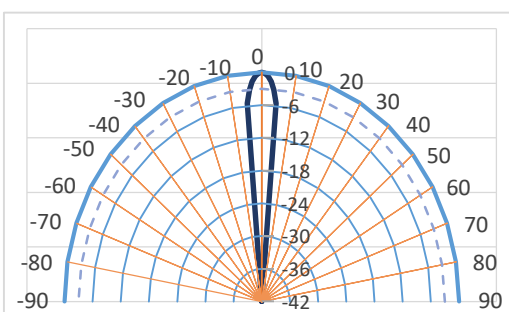
Proximity measurement

A500B1 ultrasonic transducer is designed to deliver outstanding performance at around 500 kHz frequency using our in-house piezoceramic and acoustic matching layer along with state-of-art technologies. The transducer works as a signal transmitting and receiving unit. This ultrasonic transducer is suitable for gas flow detection and proximity measurement with high sensitivity, low noise, low ZFD (zero flow drift), high precision as well as exceptional reliability.

## Specifications

Operating Frequency	500 kHz
Capacitance (@ 1 kHz, 1Vrms)	320 pF
Directivity (Full Angle @-3 dB)	7 Degree
Maximum Driving Voltage ( 2% Duty Cycle Tone Burst )	20 V <sub>p-p</sub>
Dimension-OD (Face)	18.2 mm
Dimension-Height	6.58 (ref.) mm
ZFD (zero flow drift)	< 1.0 ns
Operating temperature	-30°C to +60°C
Storage Temperature	-40°C to +85°C

## Directivity Diagram



## Dimensions

Housing material: Elastomer  
Unit: mm

