

50 kHz Air transducer



Model: A050A
P/N: H2KA050KA1CD00



A050A works as a signal transmitting and receiving unit. This ultrasonic transducer is suitable for non-contact level detection and proximity measurement with extraordinary reliability. In particular, the transducer with the PVDF housing can operate under harsh chemical environment to measure the level of fluids, pastes, and coarse bulk materials.

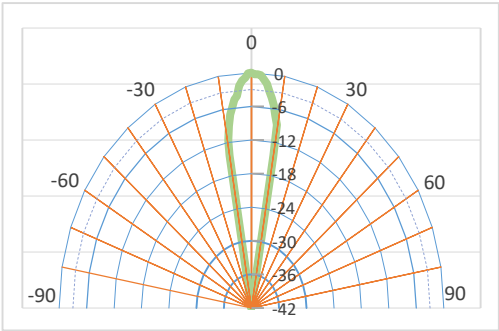
Features

- High performance
- High reliability
- PVDF housing
- FDA compliance
- Chemical resistance
- Anti-explosion
- Waterproof IP68
- Patent pending

Major Application

- Non-contact level detection
- Proximity measurement

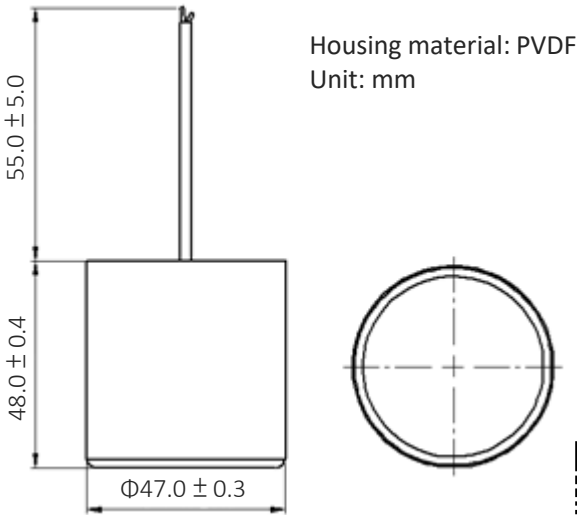
Directivity Diagram



Specifications

Operation Frequency	50 kHz
Capacitance (@ 1 kHz, 1Vrms)	3500 pF
Directivity (Full Angle @-3 dB)	10 Degree
Maximum Driving Voltage (2% Duty Cycle Tone Burst)	1000 V _{p-p}
Maximum Sensing Range	10 meter
Blind Zone	< 30 cm
Dimension-OD (Face)	47.0 mm
Dimension-Height	48.0 mm
Thermal Cycle (Typical)	100 cycle

Dimensions



As Unictron continues to improve its products, all specifications are subject to change without notice. All specifications are typically measured at 25 ± 3 ° C, 45 to 60% RH.