



# PUIaudio



Data Sheet

UTR-18225K-TT

## Key Features

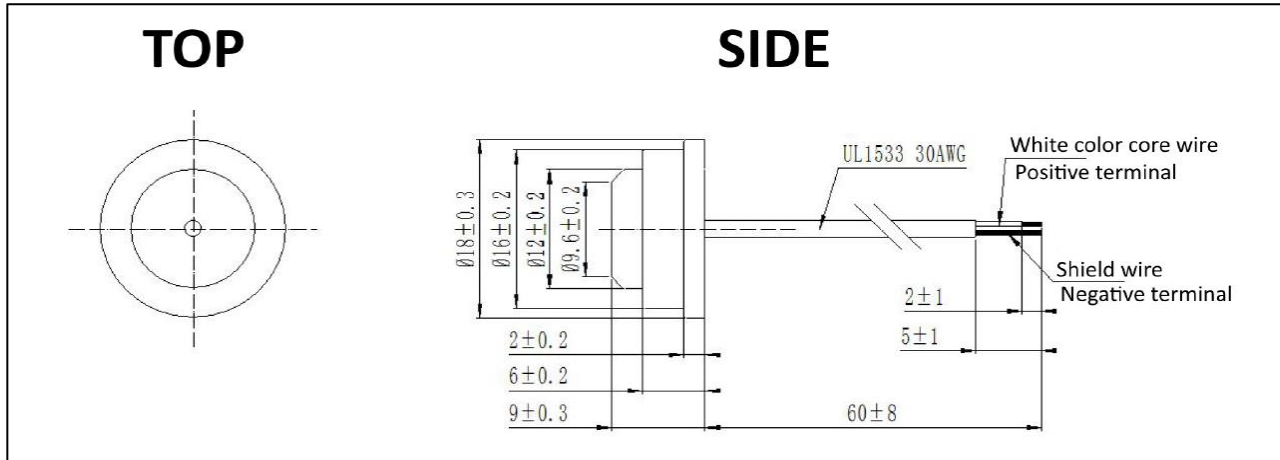
- Primarily for gas flow measurement
- Innovative acoustic material
- Stable and Reliable
- Good consistency

## Specifications

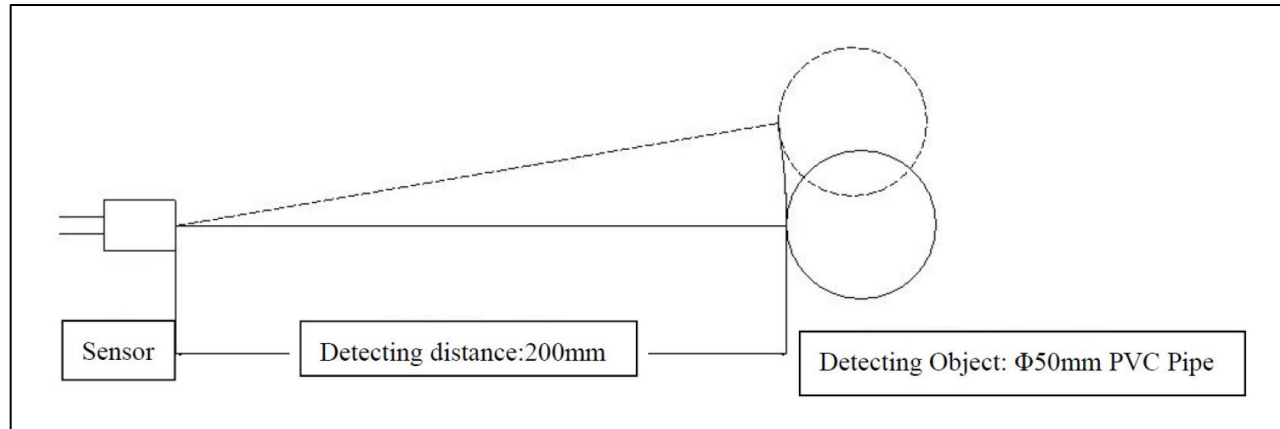
Parameters	Values	Units
Function	Dual Mode	Transmitter / Receiver
Nominal Drive Frequency	225 ± 15	kHz
Overall Sensitivity Input: 200KHz/5Vp-p/square/3 pulses. Measuring distance: 60cm Receiving sensitivity after amplifying ~30dB	140 ~ 240	mVp-p
Typical Beam Angle See Fig. 1; measured with sensitivity reduced 50%, test distance 200mm	15 ± 3	degrees
Capacitance 1kHz/1V/25°C/LCR	2,200 ± 20%	pF
Maximum Driving Voltage Maximum of 96 pulses / Pulse interval 30ms	100	Vpp
Maximum Driving Voltage Continuous square wave	12	Vpp
Maximum Pressure	0.2	Mpa
Operating Temperature	-25 ~ 70	°C
Storage Temperature	-30 ~ 70	°C
Housing Material	Black Plastic	-
Environmental Compliances	RoHS/REACH	-

Test condition: T=25±3°C, H=45~75% R.H

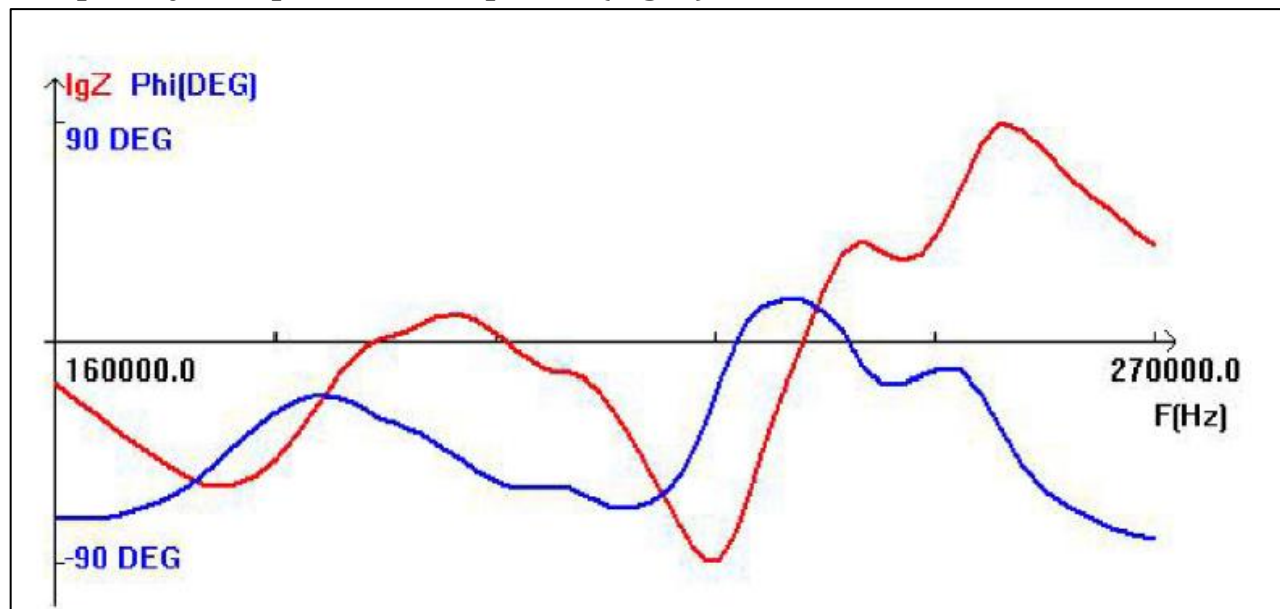
**Dimensions** (Units: mm, Tolerance:  $\pm 0.5$ mm unless otherwise stated)



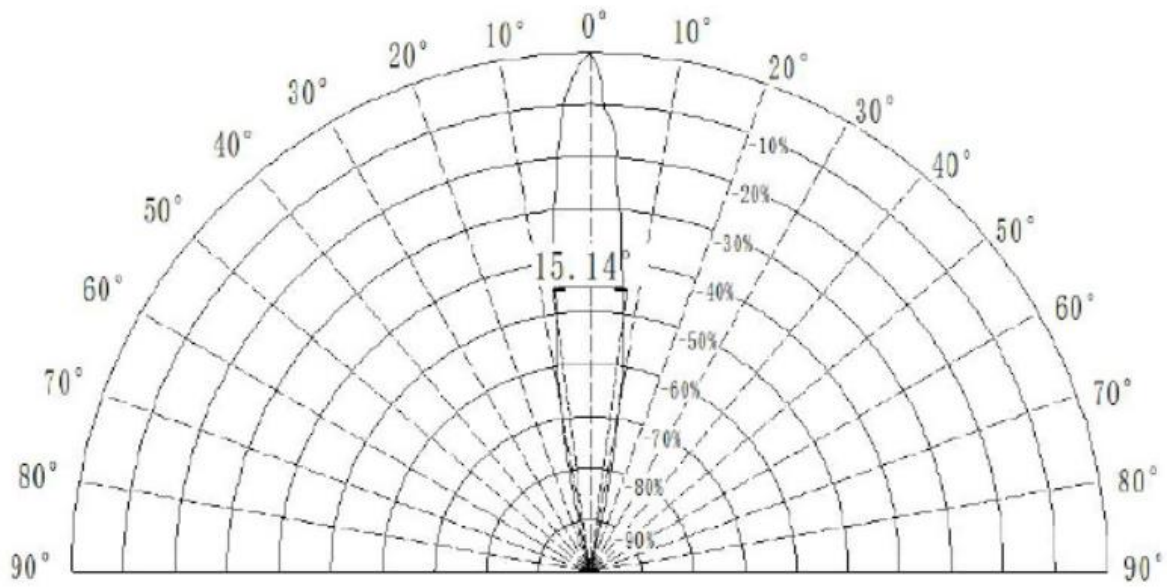
**Direction Angle Test Diagram (Fig. 1)**



**Frequency - Impedance Response (Fig. 2)**



## Beam Angle Response



## Packaging

20 pcs/tray

5 trays per case (100pcs)

12 cases per box (1200pcs)

### Specifications Revisions

Revision	Description	Date	Approved
A	Released from Engineering	10/20/2022	

Note:

1. Unless otherwise specified:
  - A. All dimensions are in millimeters.
  - B. Default tolerances are  $\pm 0.5\text{mm}$  and angles are  $\pm 3^\circ$ .
2. Specifications subject to change or withdrawal without notice.