

# MCUSD16A40S12RO



## Applications:

This specification covers the water proof type ultrasonic ceramic transducer which are used for receiver and transmitter of ultrasonic waves.

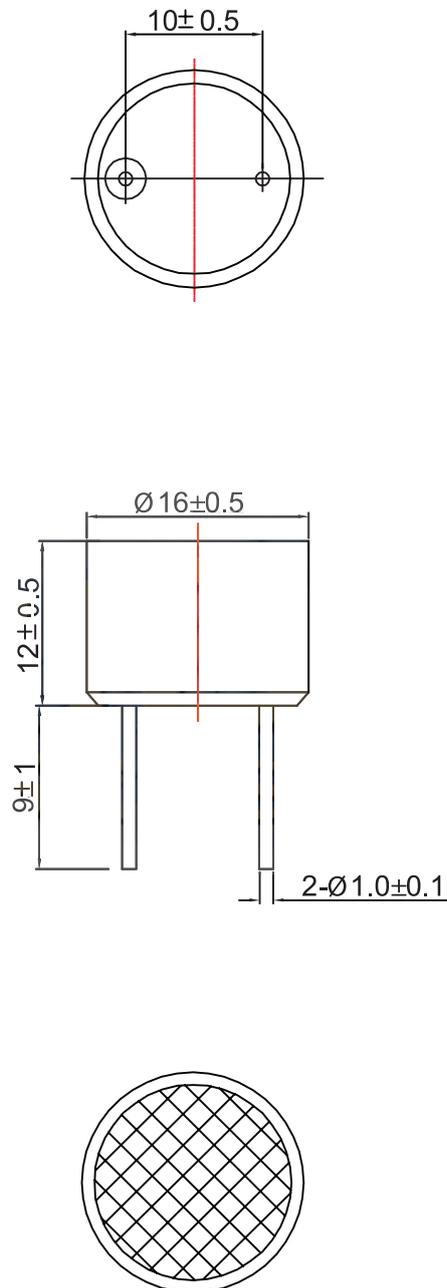
## Features:

- Open structure and dual use
- Compact and light weight
- High sensitivity and sound pressure
- Less power consumption
- High reliability

## Technical Terms:

No	Item	Specification
1	Part Number	MCUSD16A40S12RO
2	Construction	Open structure
3	Using Method	Dual Use
4	Centre Frequency	40 ± 1KHz
5	Output Sound Pressure	min.110dB (40kHz) 0dB=0.0002μbar
6	Sensitivity at 40kHz	min.-65dB/V/ μbar
7	Capacitance	2,500pF ± 25% at 1kHz
8	Directivity	50°
9	Operating Temperature Range	-35°C to 85°C
10	Storage Temperature Range	-35°C to 85°C
11	Detectable Range	0.7...18m
12	Housing Material	Aluminium

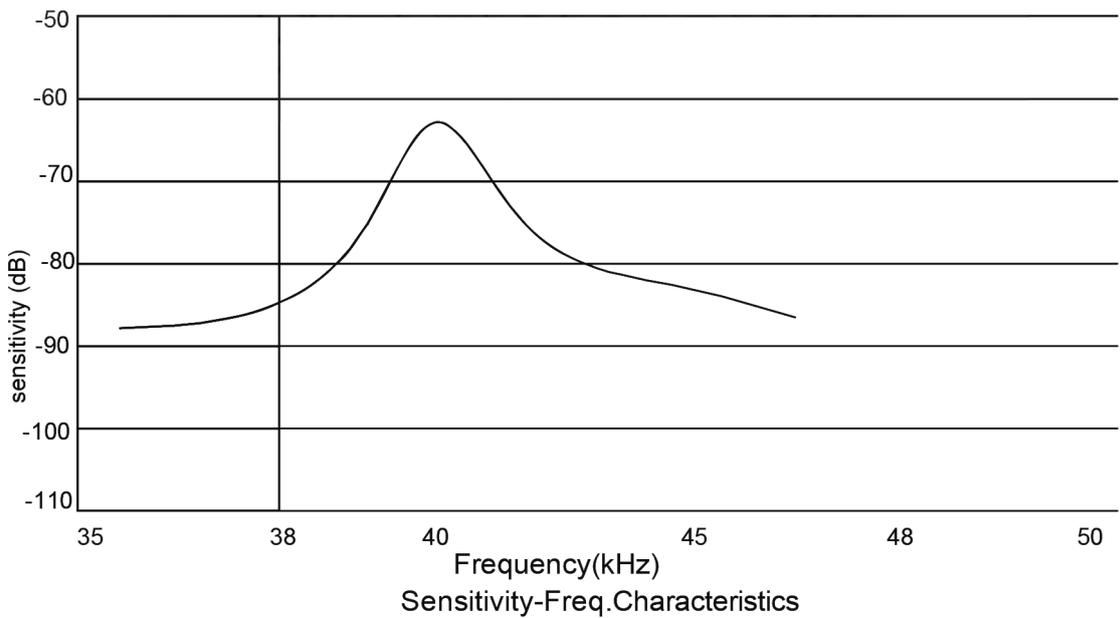
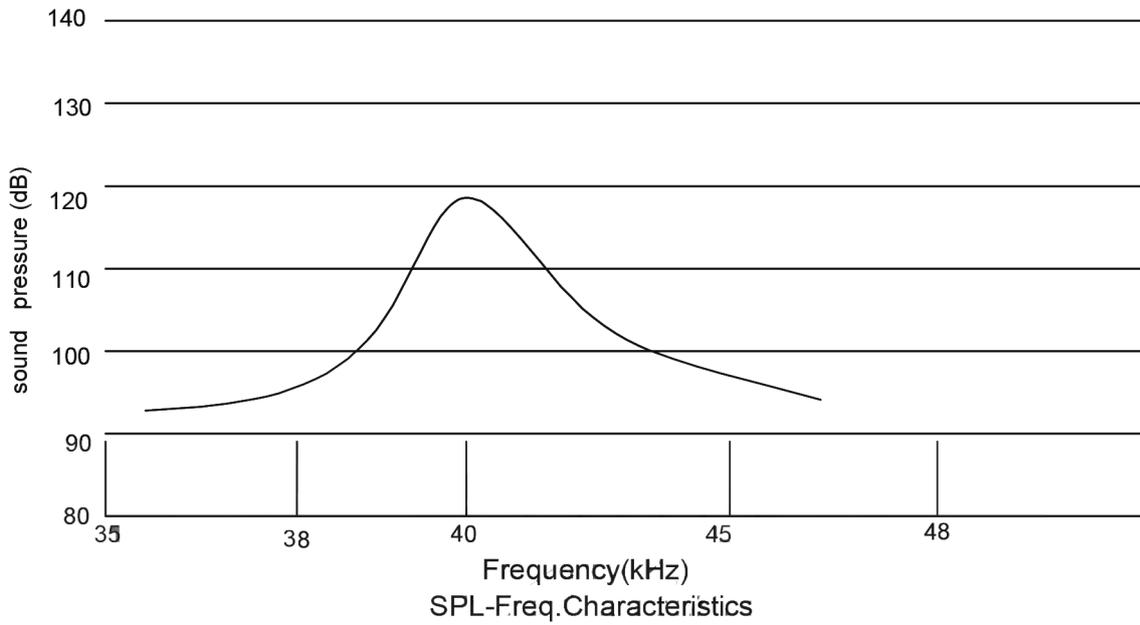
Drawing:

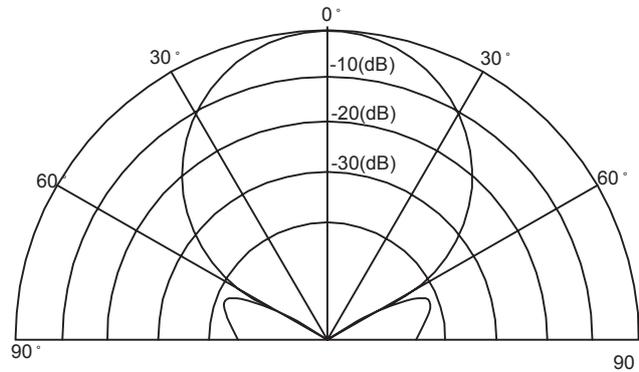


Tolerance :  $\pm 0.5$

Dimensions : Millimetres

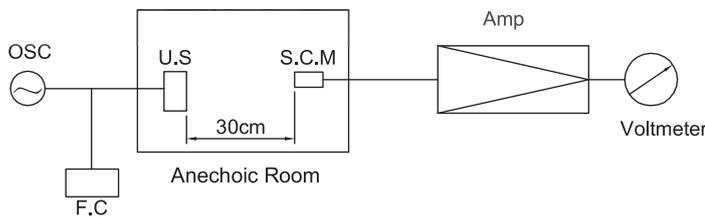
## Beam Pattern:





Directivity in Overall Sensitivity

### Test Circuit:



- OSC : Oscillator
- F.C. : Frequency Counter
- U.S. : Ultrasonic Sensor
- S.C.M. : Standard Capacitor Microphone
- Amp : Amplifier

### Part Number Table

Description	Part Number
Transceiver, 40kHz, 16mm, Metal	MCUSD16A40S12RO

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