

Ultrasonic Sensor Transmitter

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Applications

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

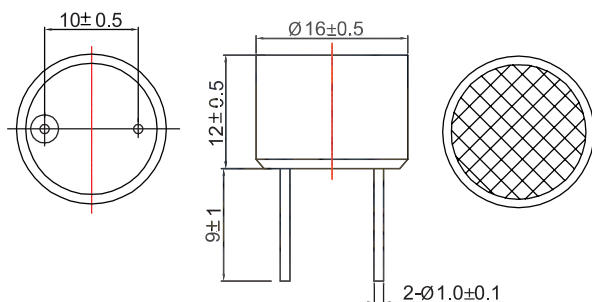
Features

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

Technical Terms

Construction	Open Structure
Using Method	Transmitter
Centre Frequency	40 ± 1kHz
Sound Pressure Level(at 40kHz) min. 110dB (10V/30cm)	-
Sensitivity at 40kHz	-
Capacitance	2,500pF ± 25% at 1kHz
Directivity	50°
Max. Input Voltage	60V
Operating Temperature Range	-35°C to +85°C
Storage Temperature Range	-35°C to +85°C
Detectable Range	0.7m to 18m
Housing Material	Aluminium

Drawing



Dimensions : Millimetres

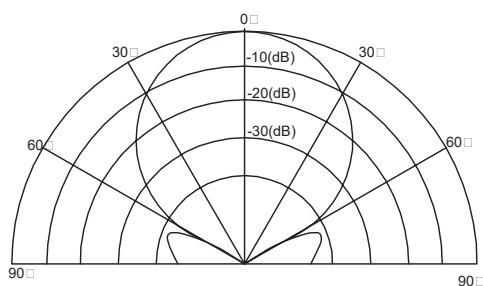
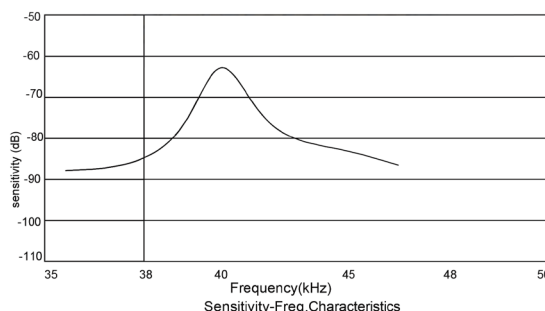
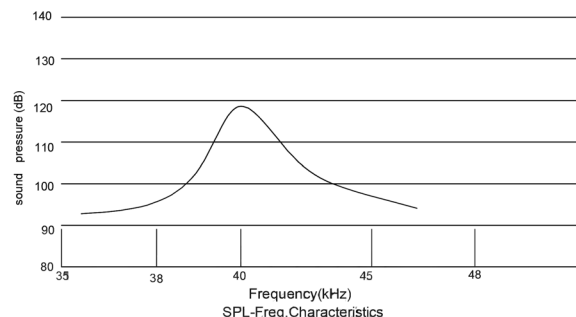
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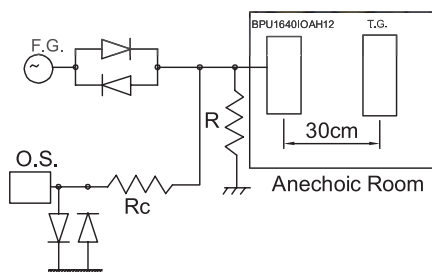
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Beam Pattern



Directivity in Overall Sensitivity

Test Circuit:



R : 3.9kΩ Rc=1kΩ
T.G. :Target
F.G. :Function Generator
O.S. :Oscilloscope

Part Number Table

Description	Part Number
Transmitter, 40kHz, 16mm, Metal	MCUST16A40S12RO

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