



DESCRIPTION: Ultrasonic Sensor

MODEL: MDO-A1640H10TR

FEATURES

Dual Use: Transmitter/Receiver

Compact and light weight.

High sensitivity and sound pressure

Less power consumption

High reliability

PICTURE:

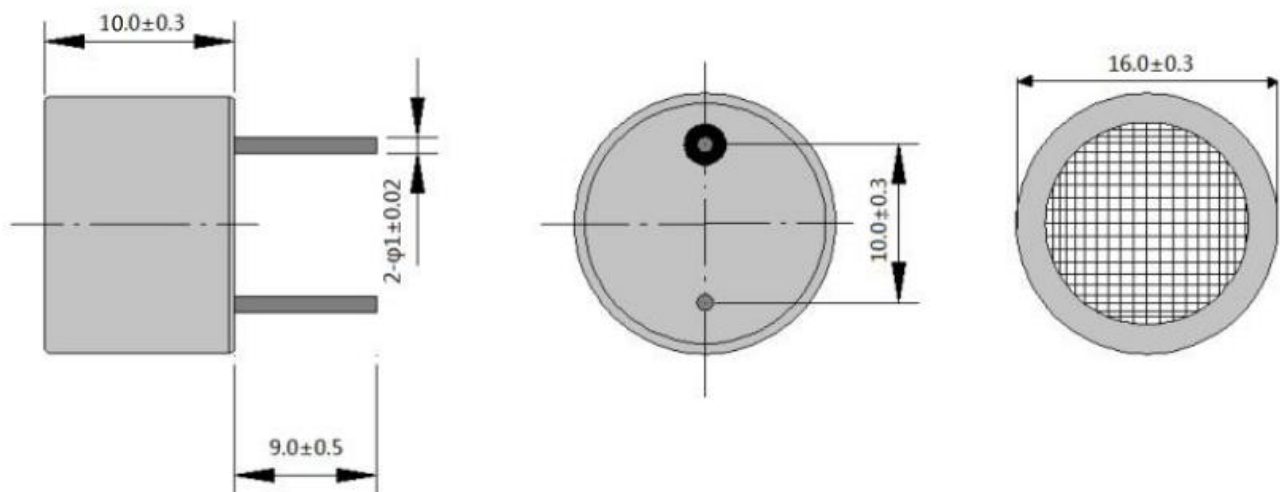


SPECIFICATIONS

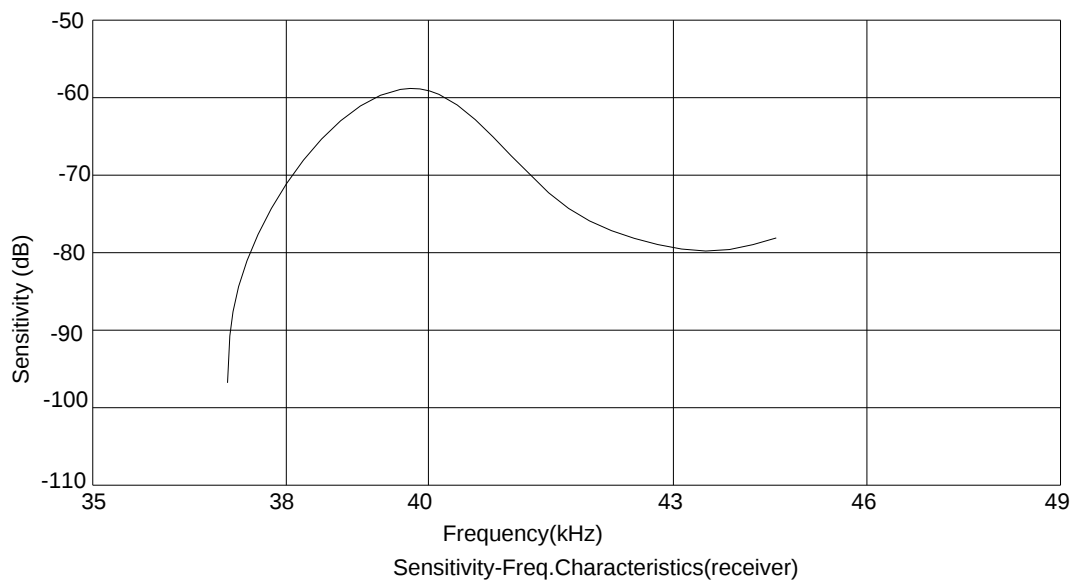
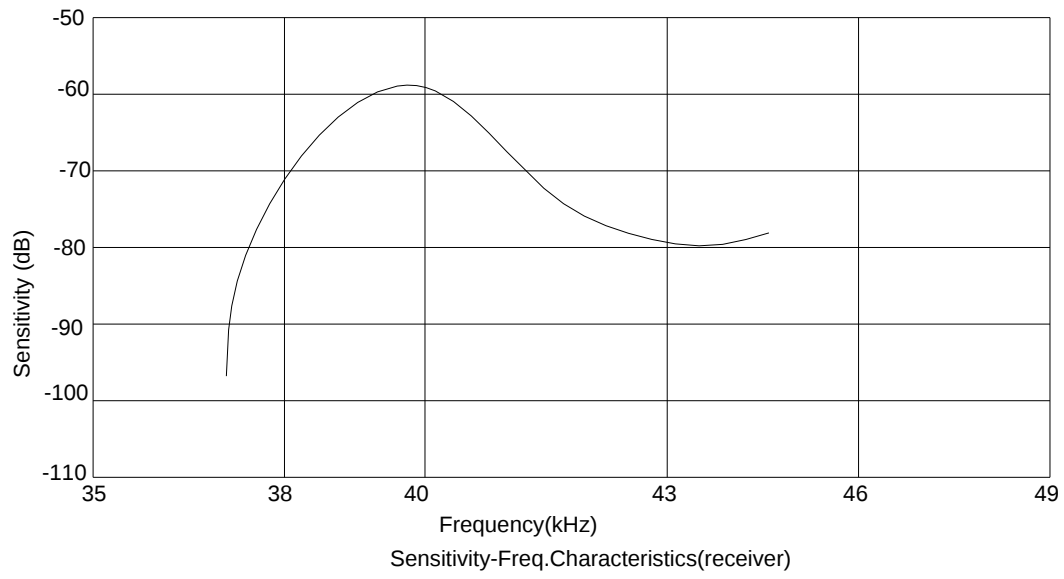
Item	Value
Using method	Transmitter/Receiver
Nominal Frequency	$40 \pm 1.0\text{KHz}$
Sensitivity	$\geq -68\text{V/u Mbar}$
S P L	$\geq 115\text{dB}(10\text{V}/30\text{cm}/\text{sine wave})$
Directivity	80deg
Capacitance	$2400\text{pF} \pm 20\% @ 1\text{KHz}$
Detectable range	0.2~18m
Allowable input voltage	150Vp-p(40KHz)
Operating Temperature	-20~ +70°C
Response time for receiver	Max 1.6
Housing material	Aluminum
Weight	2.15g

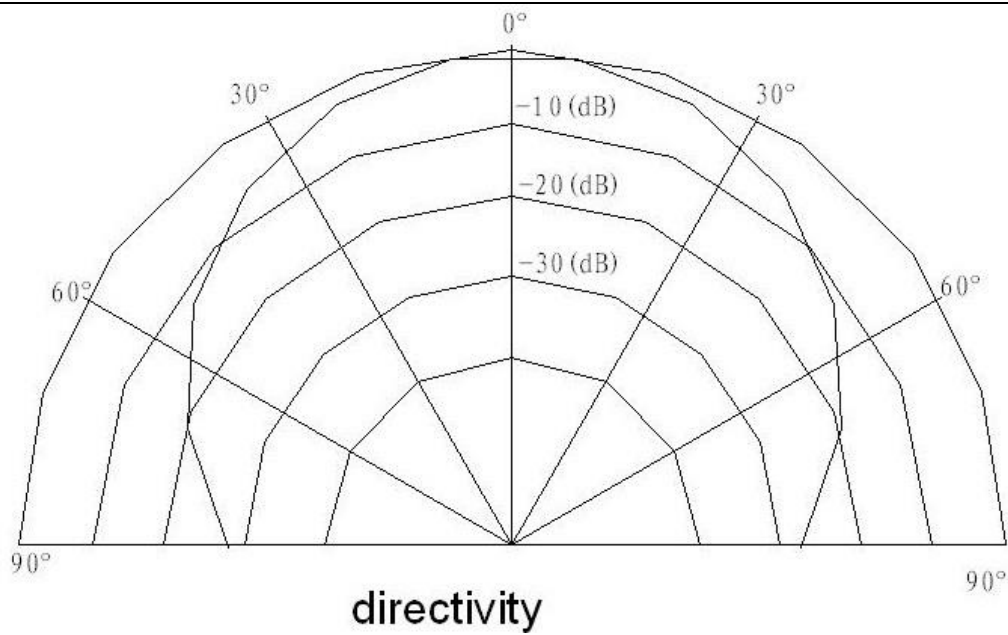
MECHANICAL DRAWING

units:mm



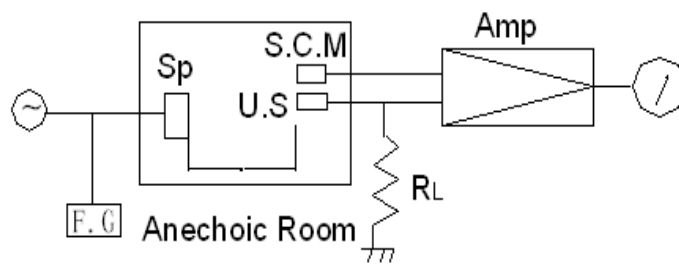
BEAM PATTERN





TEST CIRCUIT

Receiver



RL: $3.9K\Omega$

U.S :Ultrasonic Sensor

S.C.M:Standard Cappable Microphone

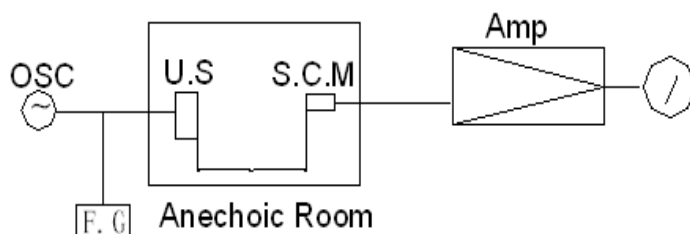
Amp. :Amplifier

OSC. :Oscillator

Sp :Tweeter

F.C :Frequency Counter

Transmitter



U.S :Ultrasonic Sensor

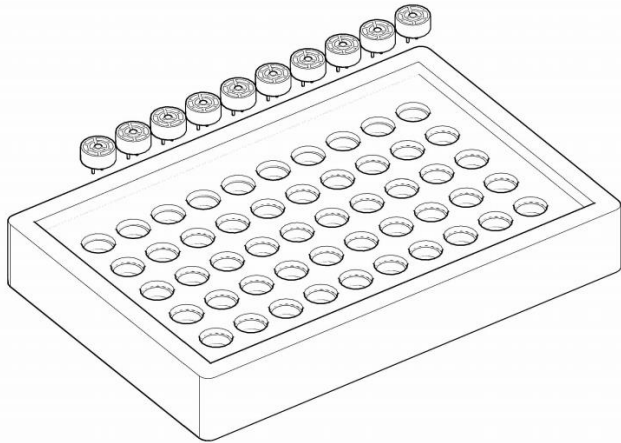
S.C.M:Standard Cappable Microphone

Amp. :Amplifier

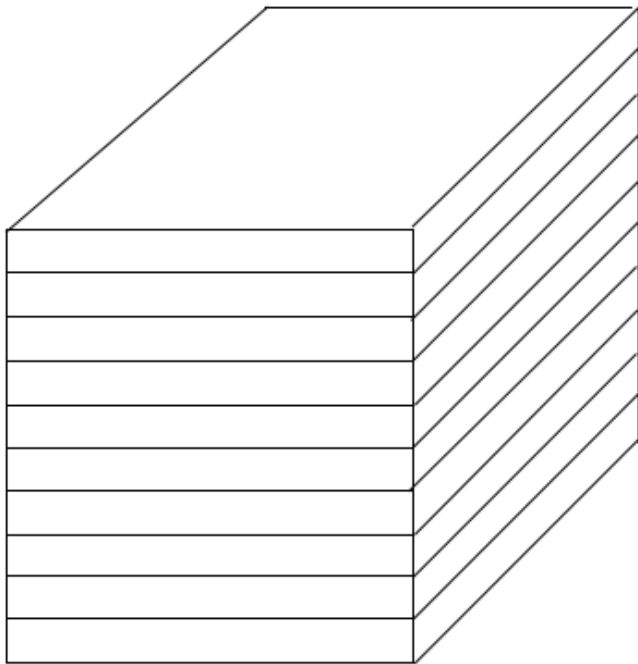
Input voltage:10Vrms

F.C :Frequency Counter

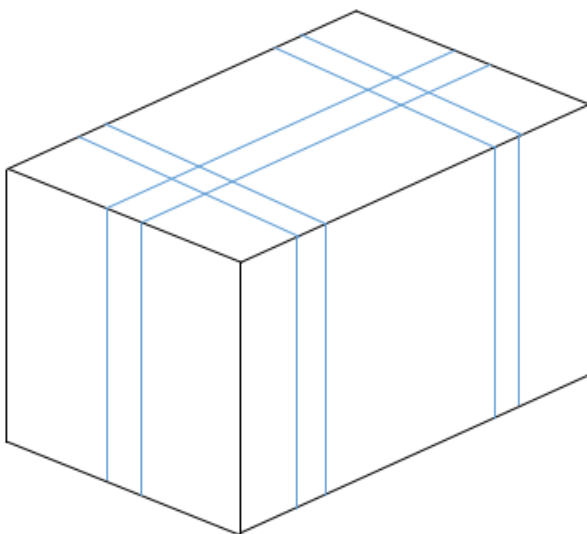
PACKAGING DETAILS



50PCS/BOX
BOX SIZE:24*16*3CM



10BOXES/STACK, TOTAL 500PCS
STACK SIZE:24*16*24CM



2000PCS/CARTON
CARTON SIZE:48*28*32CM