

# 規格承認書

PECIFICATION FOR APPROVAL

客戶

CUSTOMER : 立創

項目

ITEM : 超声波传感器

型號

TYPE : GU1210A-40TR

描述

DESCRIPTION :  $\phi 12 \times H10 \text{mm}$   $40 \pm 1.0 \text{KHz}$  单角度  $80 \pm 15\%$  1800PF 插针 收发

客戶料號

CUSTOMER NO. :

規格書號

SPECIFICATION NO.:

版本

EDITION NO. : V1.0

日期

DATE : 20

## 客戶承認

### CUSTOMER CONFIRM AND SIGN

檢查 TESTED BY	審核 CHECKED BY	承認 APPROVED BY

## 東莞市贏海電子有限公司

### DONGUAN INGHAI ELECTRONICS CO.,LTD

製作 ISSUED BY	審查 CHECKED BY	確認 APPROVED BY
周明	刘承成	

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網址: [HTTP://WWW.INGHAI.COM](http://www.inghai.com)

## A. Scope

This specification applies Ultrasonic sensor **GU1210A-40TR**

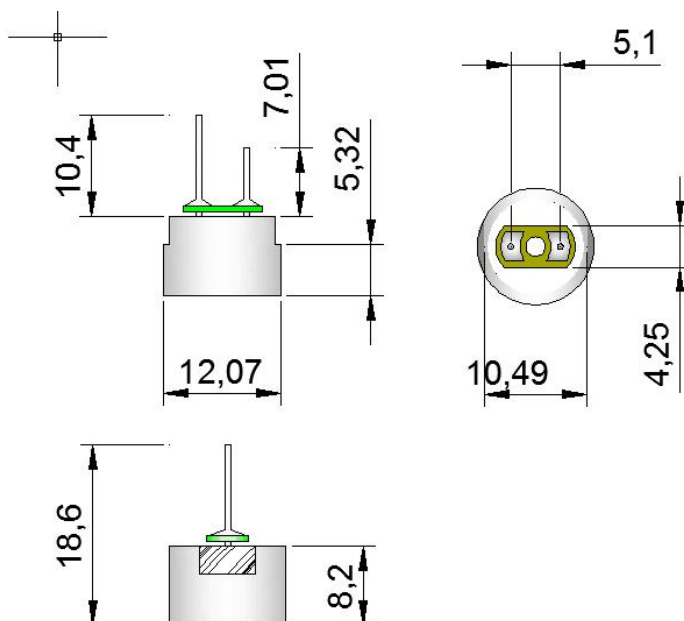
## B. Characteristics

- 1.1) Open structure and separate use
- 1.2) Compact and light weight
- 1.3) High sensitivity and sound pressure
- 1.4) Less power consumption
- 1.5) High reliability

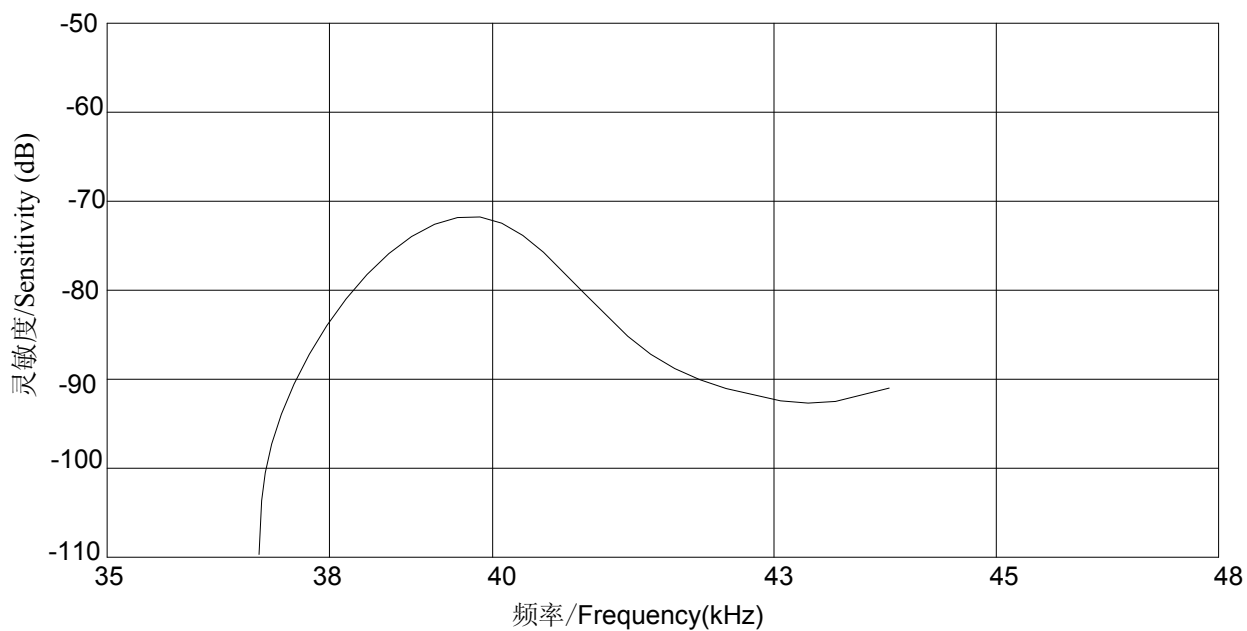
## C. Technical terms

1	Center frequency(KHz)	40±1.0 KHz
2	S. P. L	≥105 dB
3	Echo Sensitivity	≥250 mV
4	Decay Time	≤1.2 ms
5	Directivity (deg) X-axis	80±15
6	Directivity (deg) Y-axis	60±15
7	Capacitance (pF)	1800±20%
8	Allowable Maximum Input Voltage(Vp-p)	120(40KHz) Pulse width 0.5ms, interval 20ms
9	Operating Temperature(°C)	-40~+80
10	Storage temperature(°C)	-40~+85

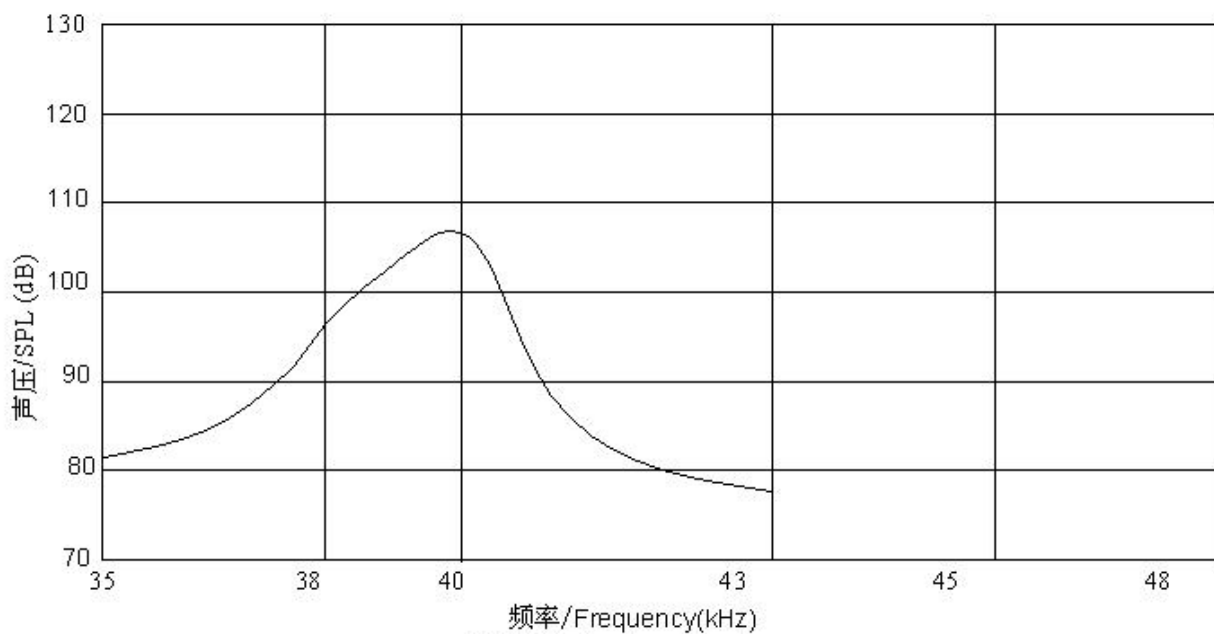
## D. Drawing 尺寸: mm



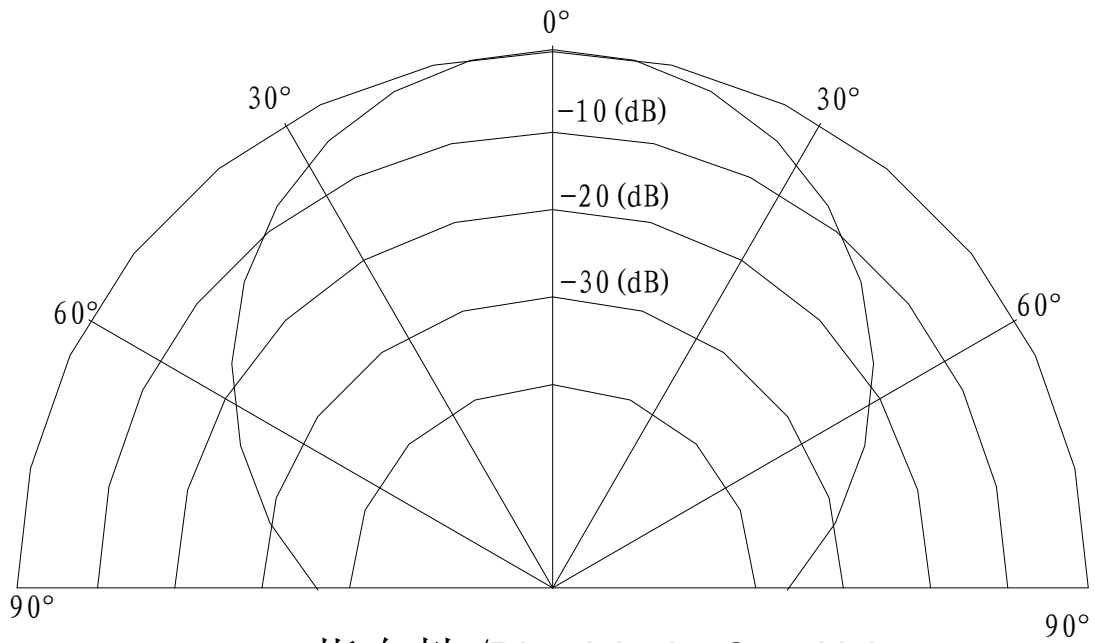
## E. Beam Pattern



灵敏度-频率特性图/Sensitivity-Freq.Characteristics



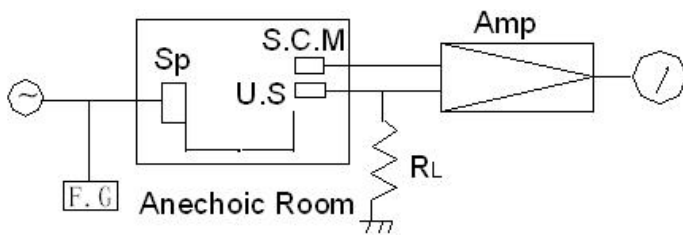
声压-频率特性图/SPL-Freq.Characteristics



指向性/Directivity in Sensitivity

## F. Test Circuit

### Receiver



RL:  $3.9K\Omega$

U.S. :Ultrasonic Sensor

S.C.M:Standard Cappacitor Microphone

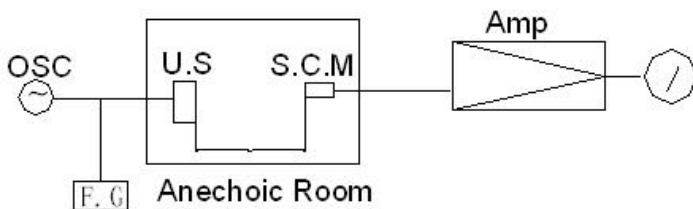
Amp. :Amplifier

OSC. :Oscillator

Sp :Tweeter

F.C. :Frequency Counter

### Transmitter



U.S. :Ultrasonic Sensor

S.C.M:Standard Cappacitor Microphone

Amp. :Amplifier

Input voltage:10Vrms

F.C. :Frequency Counter

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