

# 規格承認書

PECIFICATION FOR APPROVAL

客 戶

CUSTOMER : 立创

項 目

ITEM : 超声波传感器

型 號

TYPE : GU1409A-40TR

描述

DESCRIPTION :  $\varnothing 14 \times H9.0\text{mm}$  40KHz 160mV 角度 60+/-10% 1800pF

客戶料號

CUSTOMER NO. :

規格書號

SPECIFICATION NO.:

版 本

EDITION NO. : V1.1

日 期

DATE : 2016-4-5

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

## A. Scope

This specification applies Ultrasonic sensor **GU1409A-40TR**

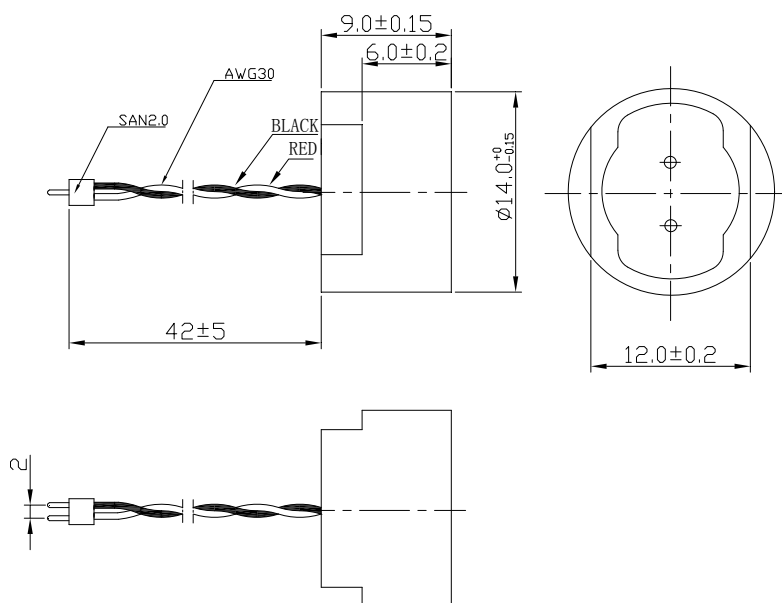
## B. Characteristics

- 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

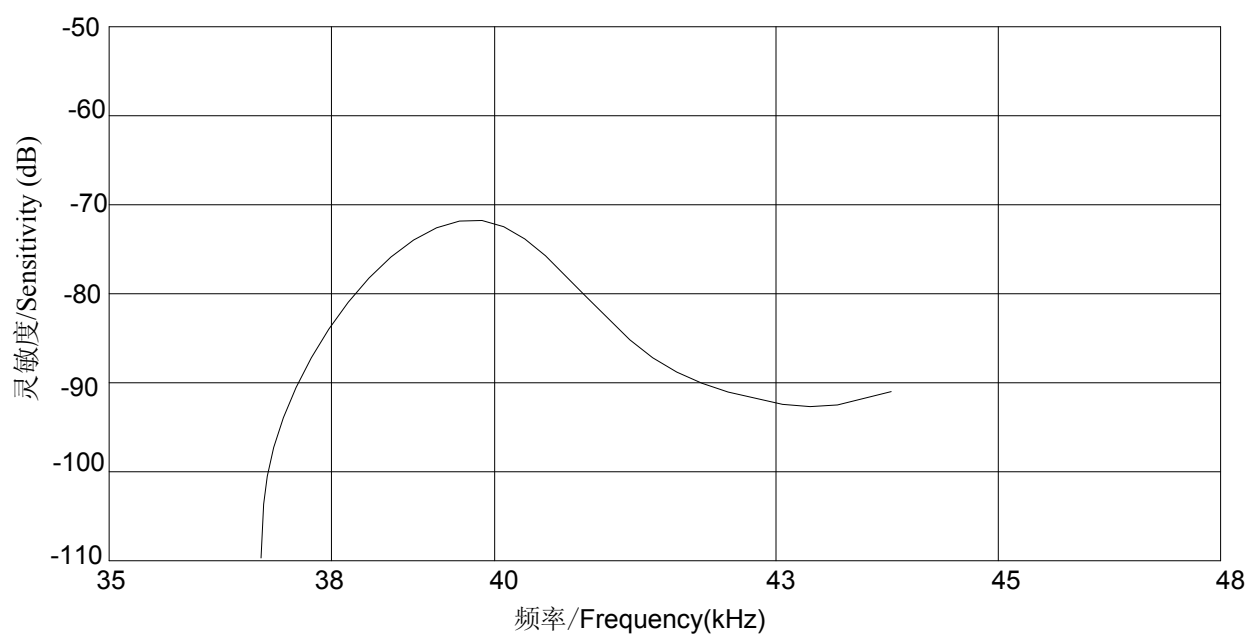
## C. Technical terms

1	Center frequency(KHz)	40±1.0KHz
2	Sound Pressure Level (dB) 0dB=0.0002μbar	>100dB
3	Sensitivity (dB) 0dB=1volt/μbar	>-74dB
4	Echo Sensitivity	≥160mV
5	Decay Time	≤1.2ms
6	Directivity (deg) X-axis	120±15
7	Directivity (deg) Y-axis	60±10
8	Capacitance (pF)	1800±15%
9	Allowable Maximum Input Voltage(Vp-p)	140(40KHz) Pulse width 0.5ms, interval 20ms
10	Operating Temperature(°C)	-40~+80
11	Storage temperature(°C)	-40~+85

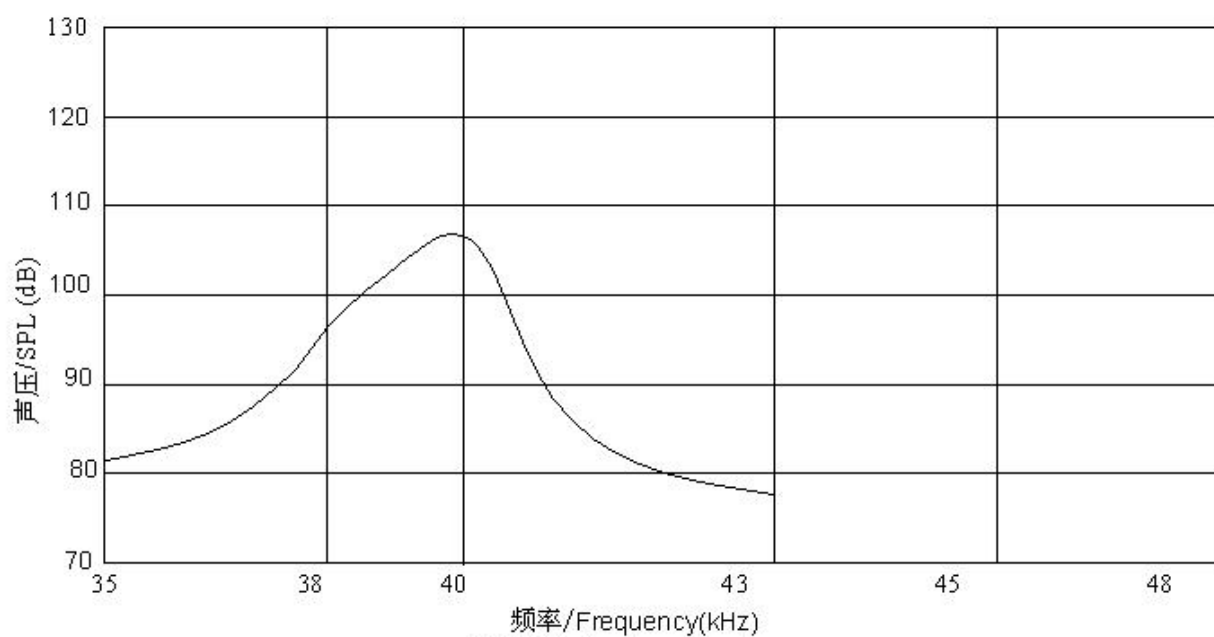
## D .Drawing



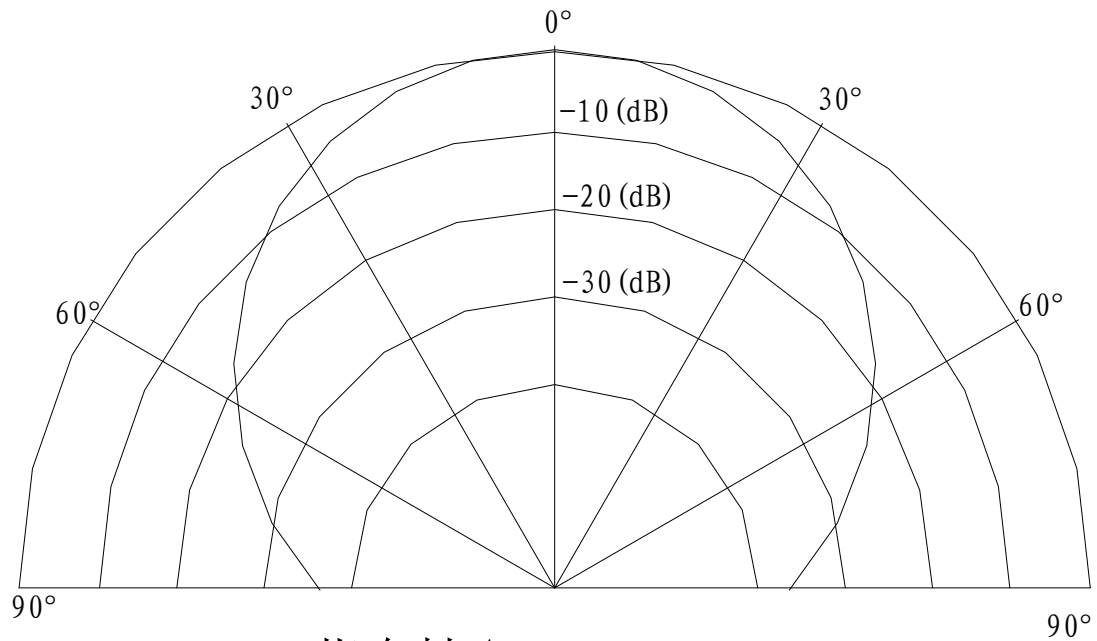
## E. Beam Pattern



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



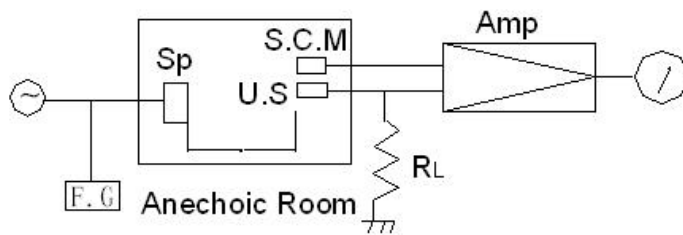
声压-频率特性图/SPL-Freq.Characteristics



指向性/Directivity in Sensitivity

## F. Test Circuit

### Receiver



RL:  $3.9K\Omega$

U.S. :Ultrasonic Sensor

S.C.M:Standard Capparitor Microphone

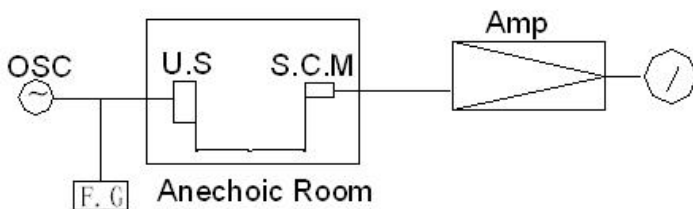
Amp. :Amplifier

OSC. :Oscillator

Sp :Tweeter

F.C :Frequency Counter

### Transmitter



U.S. :Ultrasonic Sensor

S.C.M:Standard Capparitor Microphone

Amp. :Amplifier

Input voltage:10Vrms

F.C :Frequency Counter

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