

# 規格承認書

PECIFICATION FOR APPROVAL

客戶  
CUSTOMER : 立創

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項目  
ITEM : 超声波传感器

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型號  
TYPE : GU1410A-40TR

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描述  
DESCRIPTION :  $\varnothing 14 \times H10$ mm 40KHz 160mV 角度 60+/-10% 1800pF 带线端子

客戶料號  
CUSTOMER NO. :

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規格書號  
SPECIFICATION NO. :

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版本  
EDITION NO. : V1.1

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日期  
DATE : 2016-4-5

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## 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 **GU1410A-40TR**

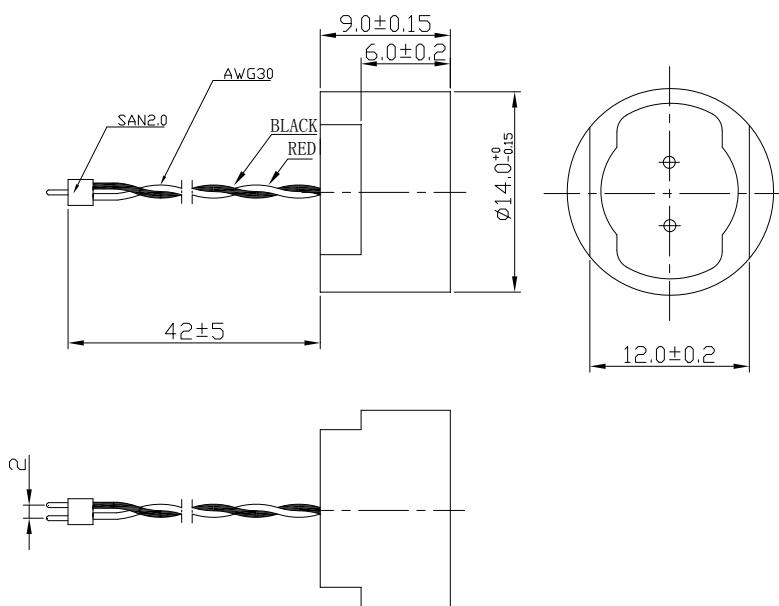
## B. Characteristics

- 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

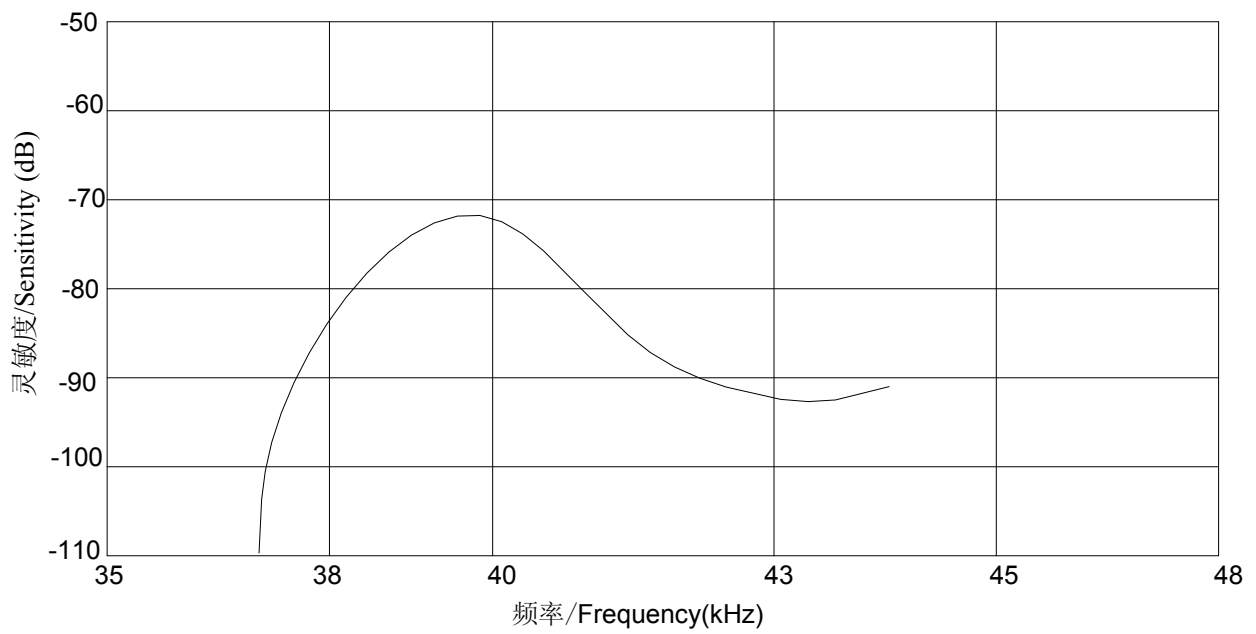
## C. Technical terms

1	Center frequency(KHz)	40±1.0KHz
2	Sound Pressure Level (dB) 0dB=0.0002μbar	>100dB
3	Sensitivity (dB) 0dB=1 volt/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

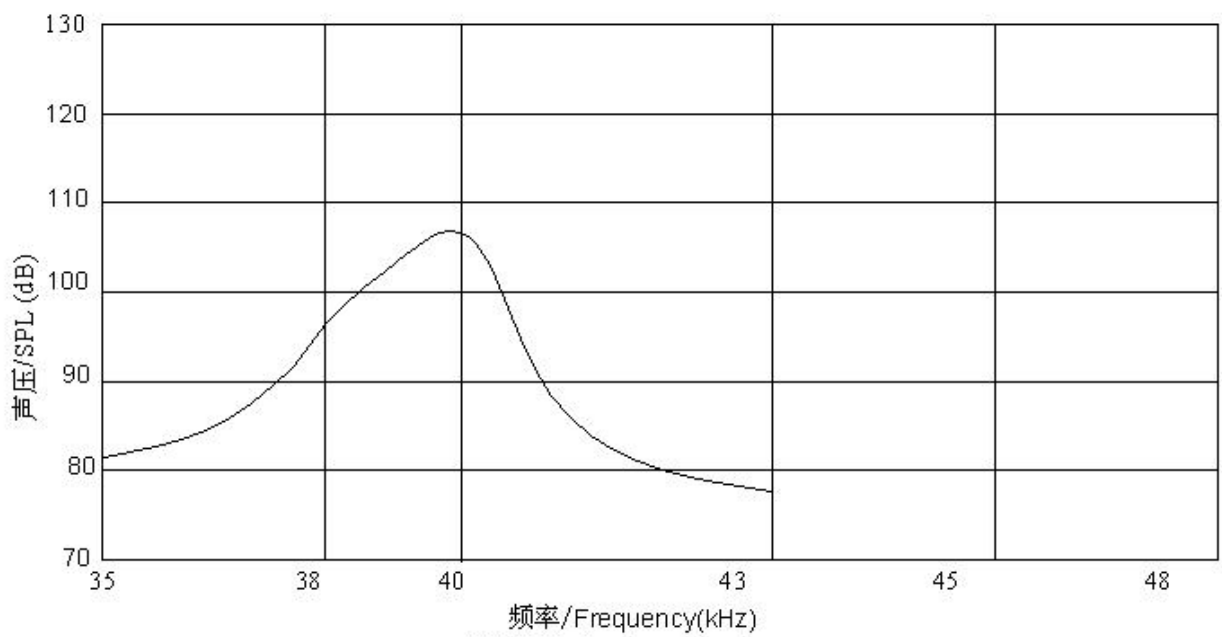
## D. Drawing 焊线插针可定制



## 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

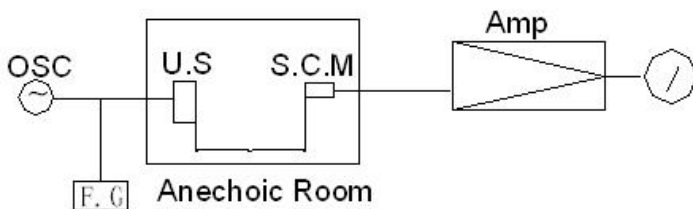
Amp. : Amplifier

OSC. : Oscillator

Sp : Tweeter

F.C : Frequency Counter

### Transmitter



U.S : Ultrasonic Sensor

S.C.M: Standard Cappacitor Microphone

Amp. : Amplifier

Input voltage:  $10V_{rms}$

F.C : Frequency Counter