

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 : GU14095B-40TR

描述
DESCRIPTION : $\varnothing 14 \times H9.5\text{mm}$ 40KHz 160mV 双角度 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
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 **GU14095B-40TR**

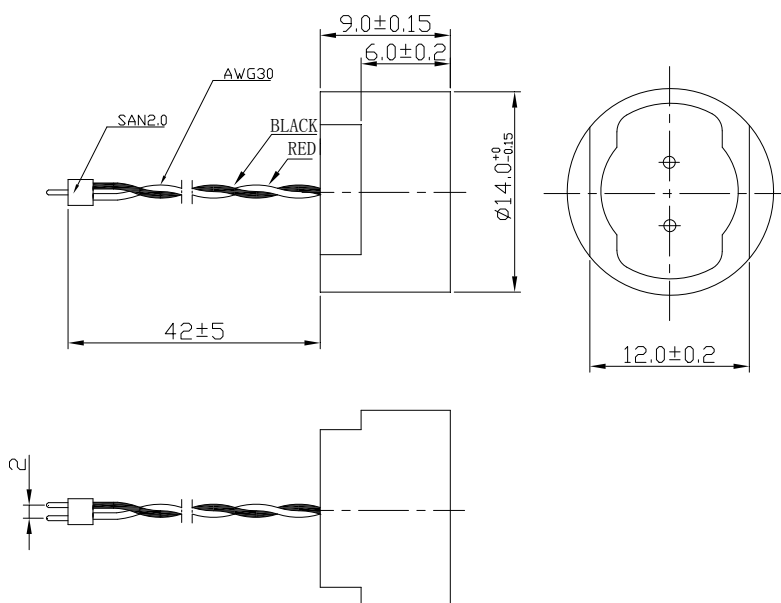
B. Characteristics

- 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

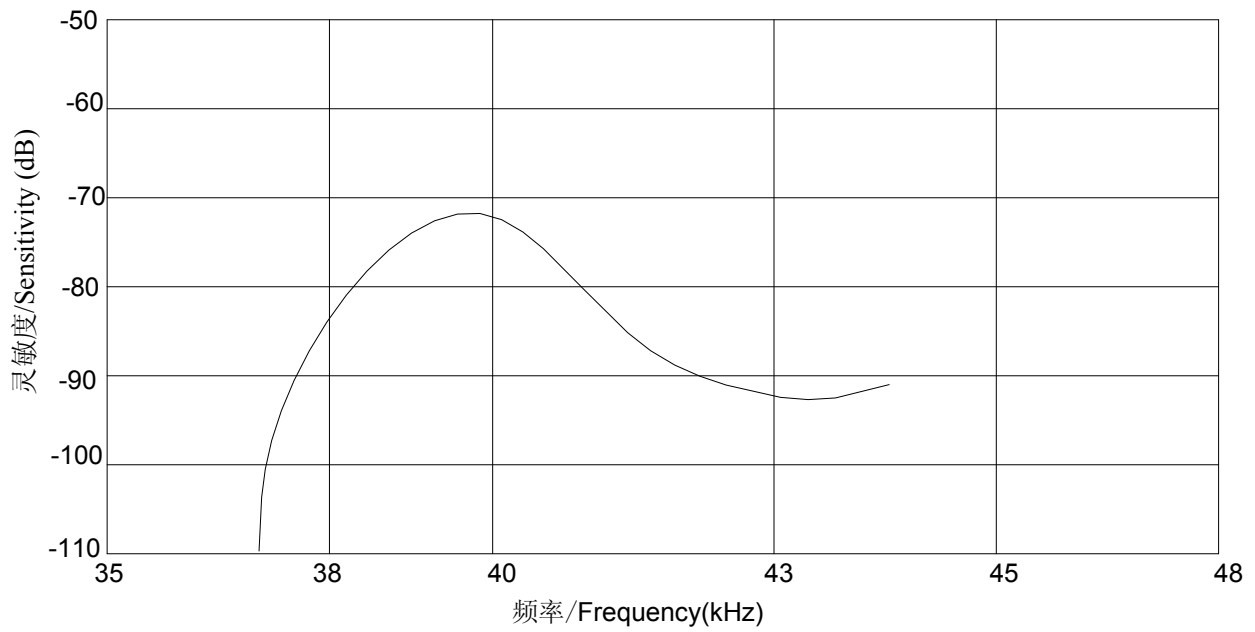
C. Technical terms

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

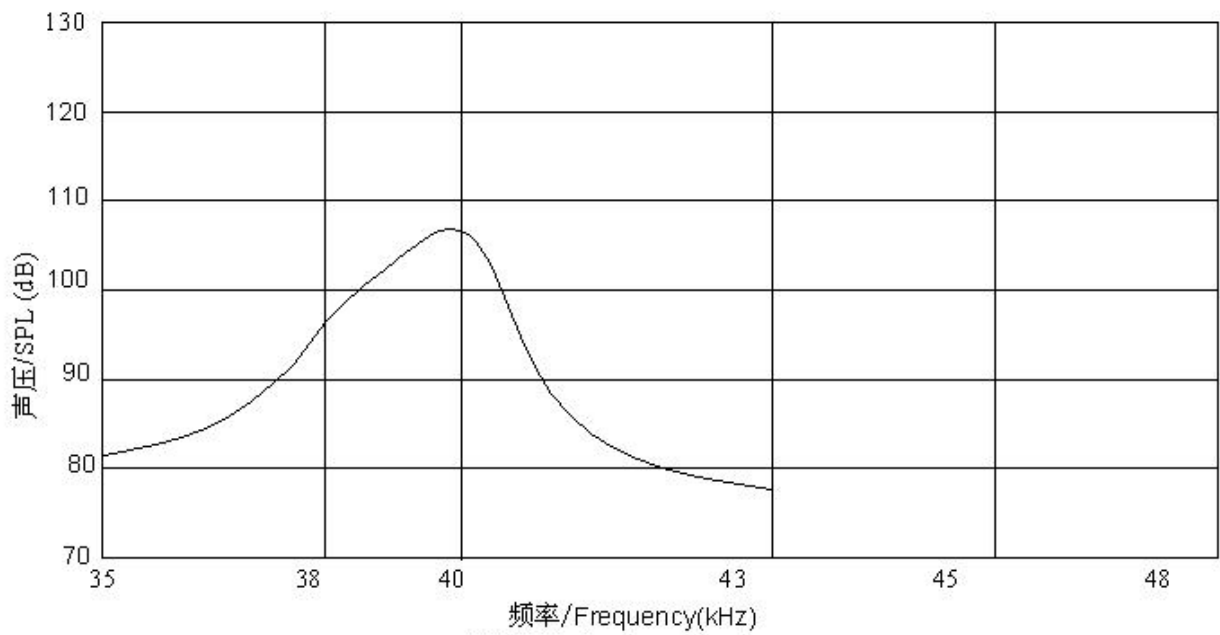
D. Drawing 焊线、插针可定制



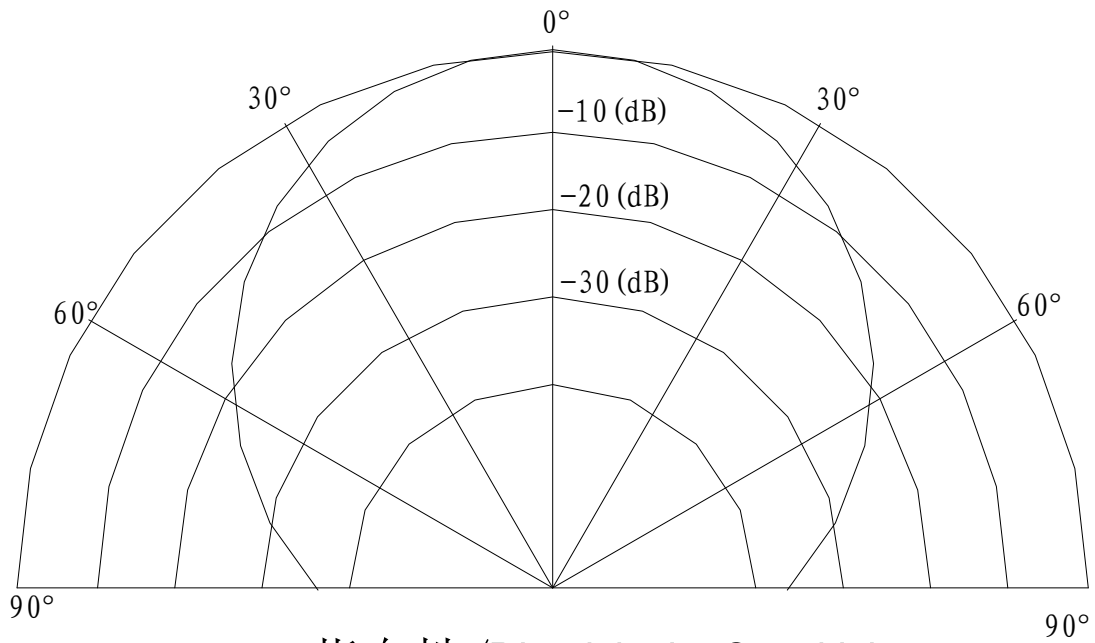
E. Beam Pattern



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



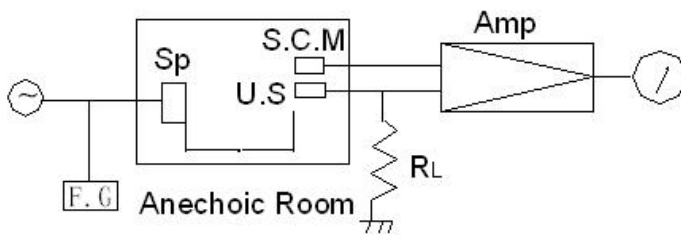
声压-频率特性图/SPL-Freq.Characteristics



指向性/Directivity in Sensitivity

F. Test Circuit

Receiver



RL: $3.9K\Omega$

U.S. :Ultrasonic Sensor

S.C.M:Standard Cappacitor Microphone

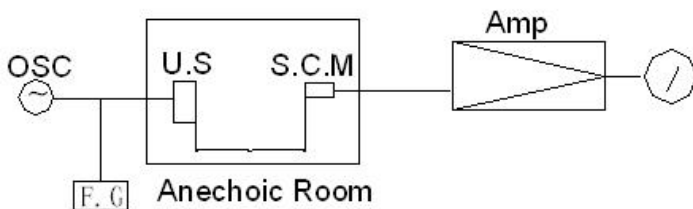
Amp. :Amplifier

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