

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 : GU14095AL42-40TR-T

描述

DESCRIPTION : $\varnothing$ 14 x H9.0mm 40KHz 单角 110° 150V 1800pF 带线端子

客戶料號

CUSTOMER NO. :

規格書號

SPECIFICATION NO.:

版 本

EDITION NO. : V1.0

日 期

DATE : 2024-5-24

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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A. Scope

This specification applies Ultrasonic sensor **GU14095AL42-40TR-T**

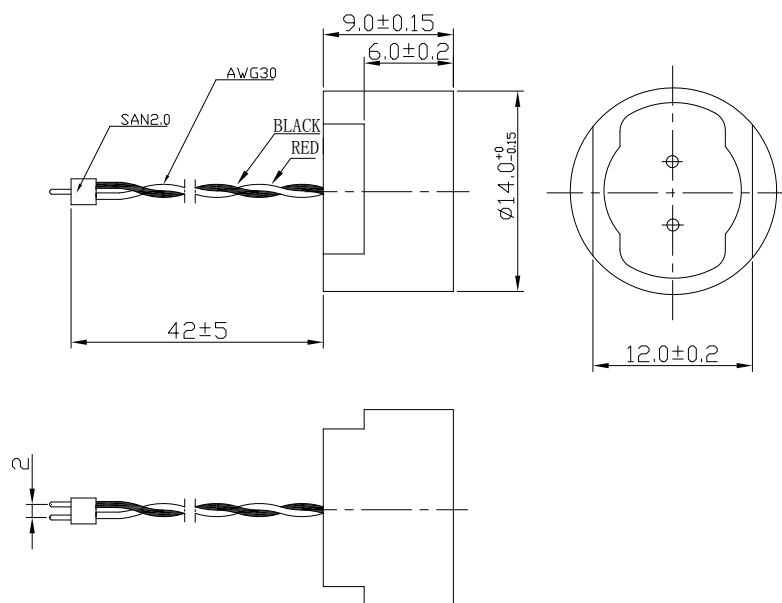
B. Characteristics

- 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

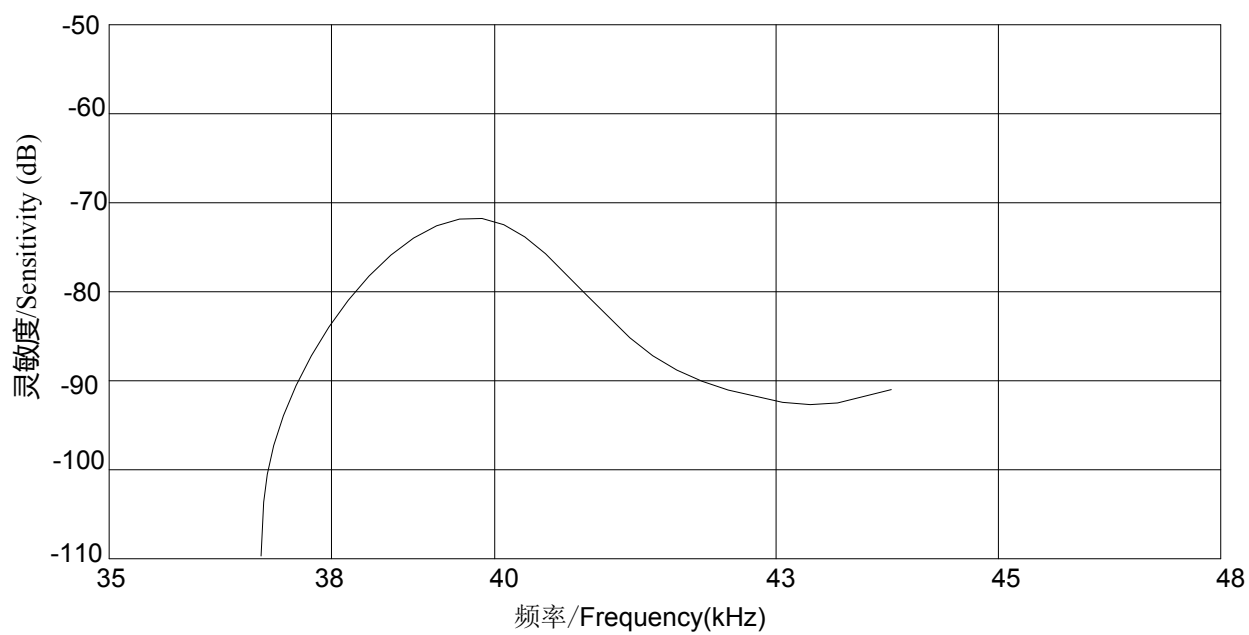
C. Technical terms

1	Center frequency(KHz)	40±1.0KHz
2	Sound Pressure Level (dB) 0dB=0.0002μbar	≥100dB
3	Sensitivity (dB) 0dB=1volt/μbar	≥-87dB
4	Echo Sensitivity	≥160mV
5	Decay Time	≤1.2ms
6	Directivity (deg)	110±15
7	Capacitance (pF)	1800±15%
8	Allowable Maximum Input Voltage(Vp-p)	150(40KHz) Pulse width 0.5ms, interval 20ms
9	Operating Temperature(°C)	-40~+80
10	Storage temperature(°C)	-40~+85

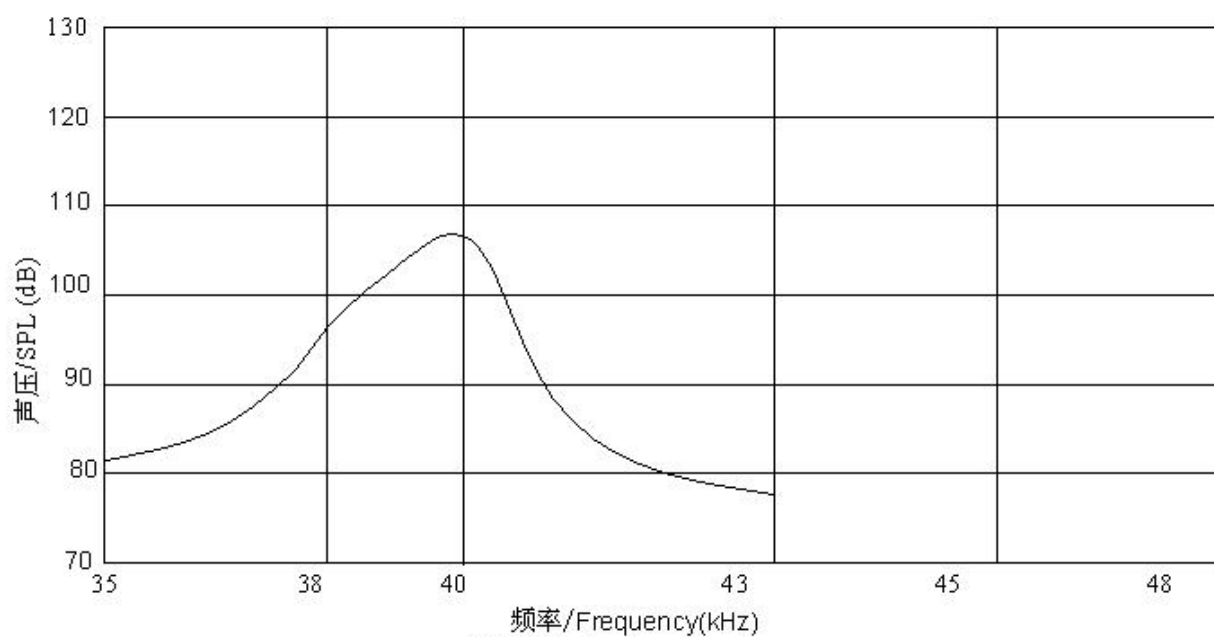
D .Drawing



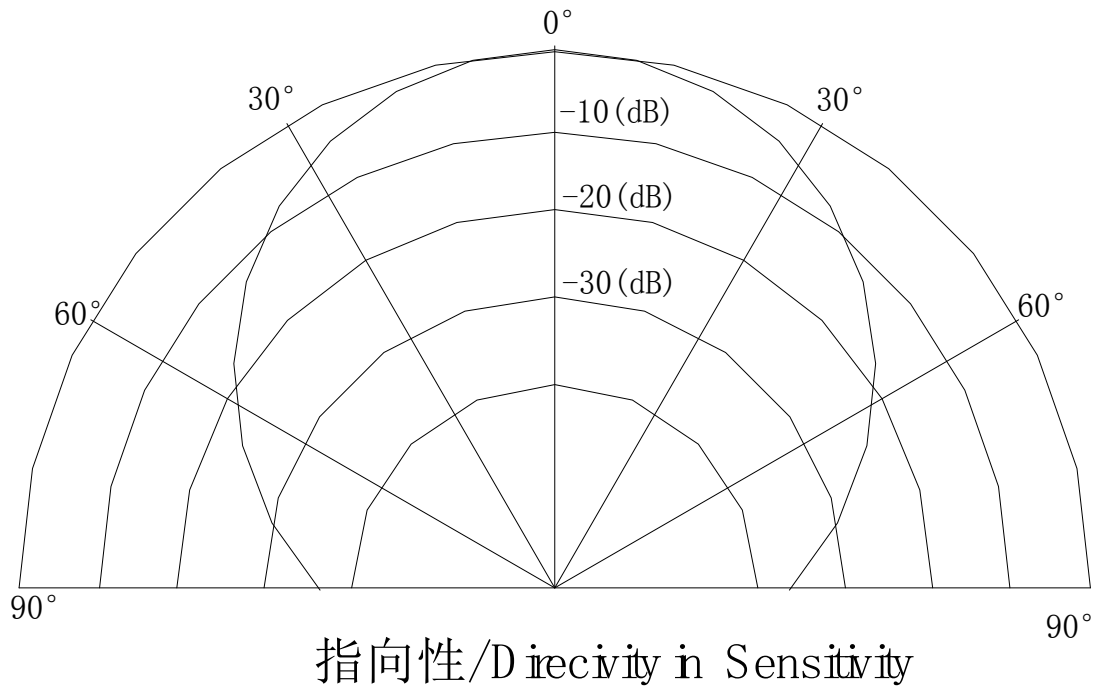
E. Beam Pattern



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

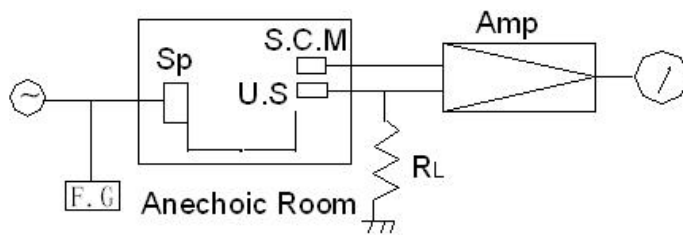


声压-频率特性图/SPL-Freq.Characteristics



F. Test Circuit

Receiver



RL: $3.9K\Omega$

U.S. :Ultrasonic Sensor

S.C.M:Standard Cappelcitor Microphone

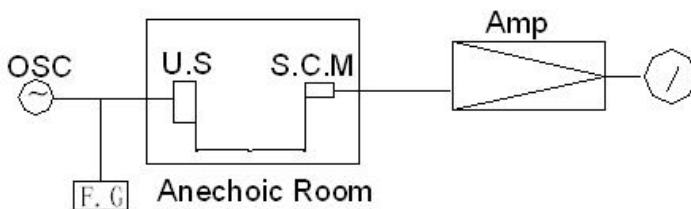
Amp. :Amplifier

OSC. :Oscillator

Sp :Tweeter

F.C :Frequency Counter

Transmitter



U.S. :Ultrasonic Sensor

S.C.M:Standard Cappelcitor Microphone

Amp. :Amplifier

Input voltage:10Vrms

F.C :Frequency Counter