

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 : GU1612A-40TR

描述

DESCRIPTION : $\phi 16 \times H12mm$ $40 \pm 1.0KHz$ 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 : 2017-5-4

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 **GU1612A-40TR**

B. Characteristics

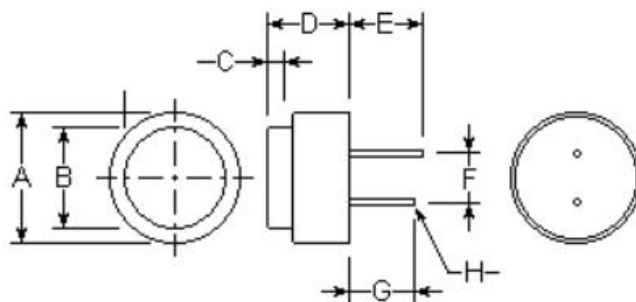
- 1.1) Open structure and separate use
- 1.2) Compact and light weight
- 1.3) High sensitivity and sound pressure
- 1.4) Less power consumption
- 1.5) High reliability



C. Technical terms

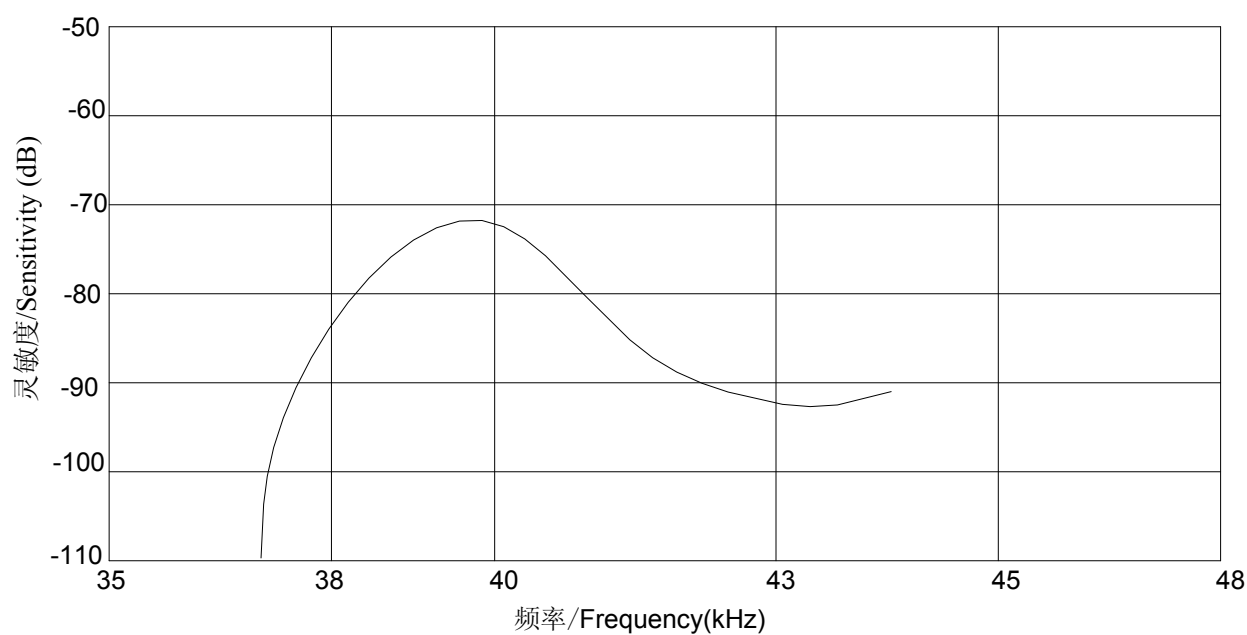
1	Center frequency(KHz)	40 ± 1.0 KHz
2	S. P. L	≥ 105 dB
3	Echo Sensitivity	≥ 250 mV
4	Decay Time	≤ 1.2 ms
5	Directivity (deg) X-axis	80 ± 15
6	Directivity (deg) Y-axis	60 ± 15
7	Capacitance (pF)	$1800 \pm 20\%$
8	Allowable Maximum Input Voltage(Vp-p)	120(40KHz) Pulse width 0.5ms, interval 20ms
9	Operating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

D .Drawing

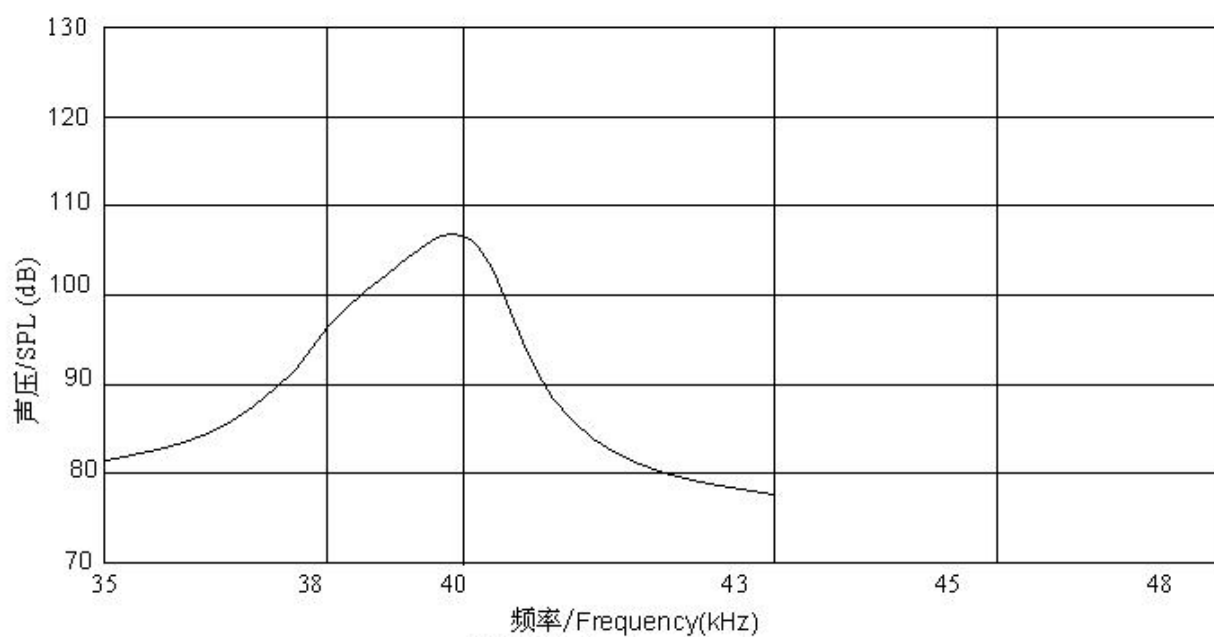


A = $\varnothing 16.0 \pm 0.5$
B = 12.5 ± 0.5
C = 3.0 ± 0.5
D = 10.0 ± 0.5
E = 9.0 ± 0.5
F = 5.0 ± 0.5
G = 7.0 ± 0.5
H = $\varnothing 0.6 \pm 0.1$

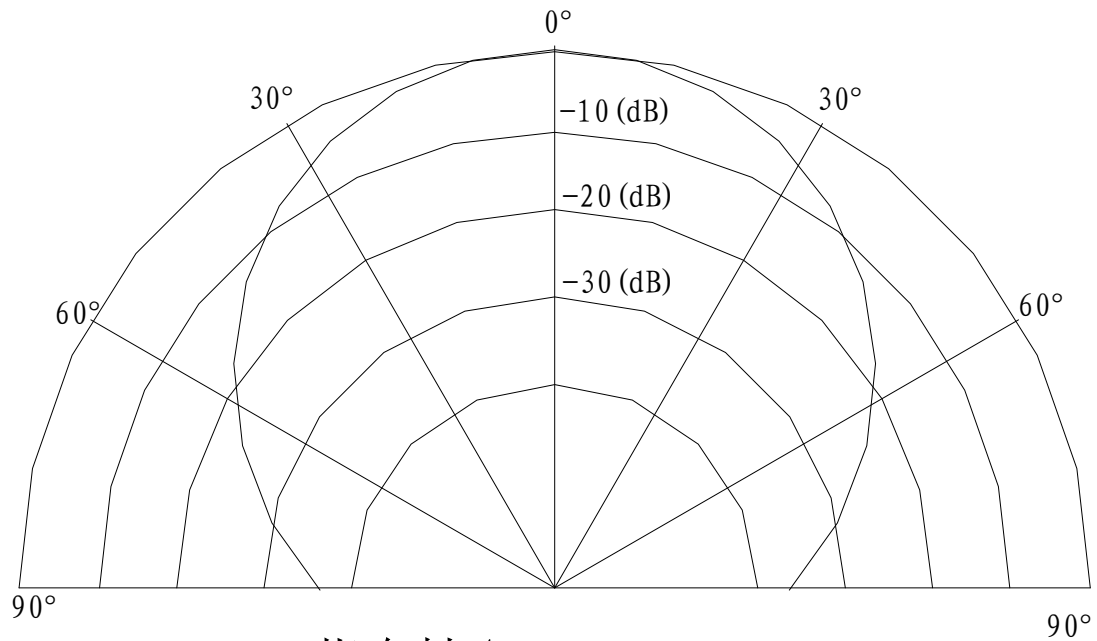
E. Beam Patten



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



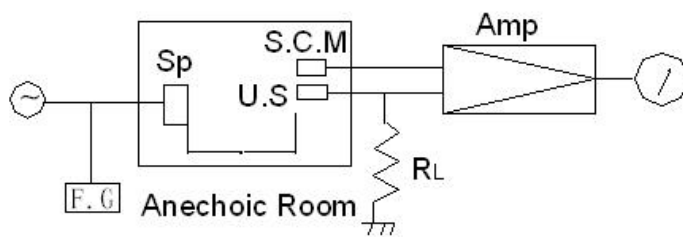
声压-频率特性图/SPL-Freq.Characteristics



指向性/Directivity in Sensitivity

F. Test Circuit

Receiver



RL: $3.9K\Omega$

U.S. :Ultrasonic Sensor

S.C.M:Standard Cappable Microphone

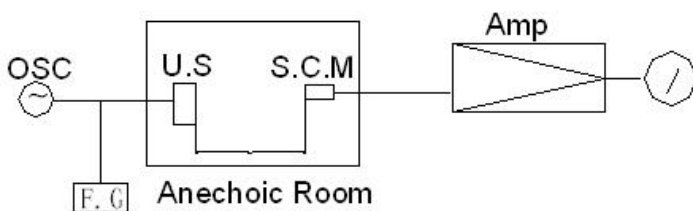
Amp. :Amplifier

OSC. :Oscillator

Sp :Tweeter

F.C :Frequency Counter

Transmitter



U.S. :Ultrasonic Sensor

S.C.M:Standard Cappable Microphone

Amp. :Amplifier

Input voltage:10Vrms

F.C :Frequency Counter

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[EI1204TBOSL-6](#) [EI5515NPAP](#) [BSA-08-25-08](#) [IC08ANC15PO-K](#) [IMM2582C](#) [25.161.3253.0](#) [25.332.0653.1](#) [25.352.0653.0](#) [25.352.0753.0](#)
[25.523.3253.0](#) [9151710023](#) [922FS1.5C-A4P-Z774](#) [SC606ABV0S30](#) [SM552A100](#) [SM952A126100LE](#) [A1220EUA-T](#) [F3S-A162-U](#) [CL18](#)
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