

# 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 : GU16D01L01-A27

---

描述  
DESCRIPTION :  $\varnothing$ 25.0xH18.6mm 40KHz L2500mm 收发一体 单角度 60+/-15 度

客戶料號  
CUSTOMER NO. :

---

規格書號  
SPECIFICATION NO. :

---

版本  
EDITION NO. : V1.0

---

日期  
DATE : 2018-6-15

---

## 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	

地址：廣東省東莞市虎門鎮懷德社區雅瑤工業區

電話 / TEL : 0769-83060958 傳真 / FAX : 0769-81608993

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

## A. Scope

This specification applies Ultrasonic sensor GU16D01L01-A27

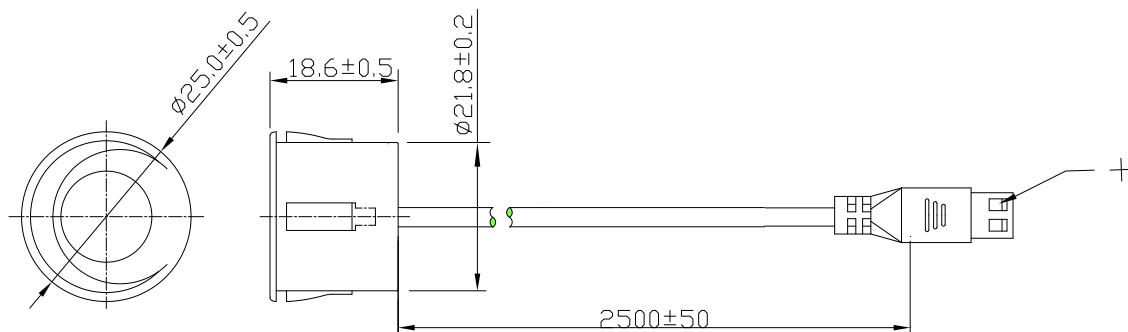
## B. Characteristics

- 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

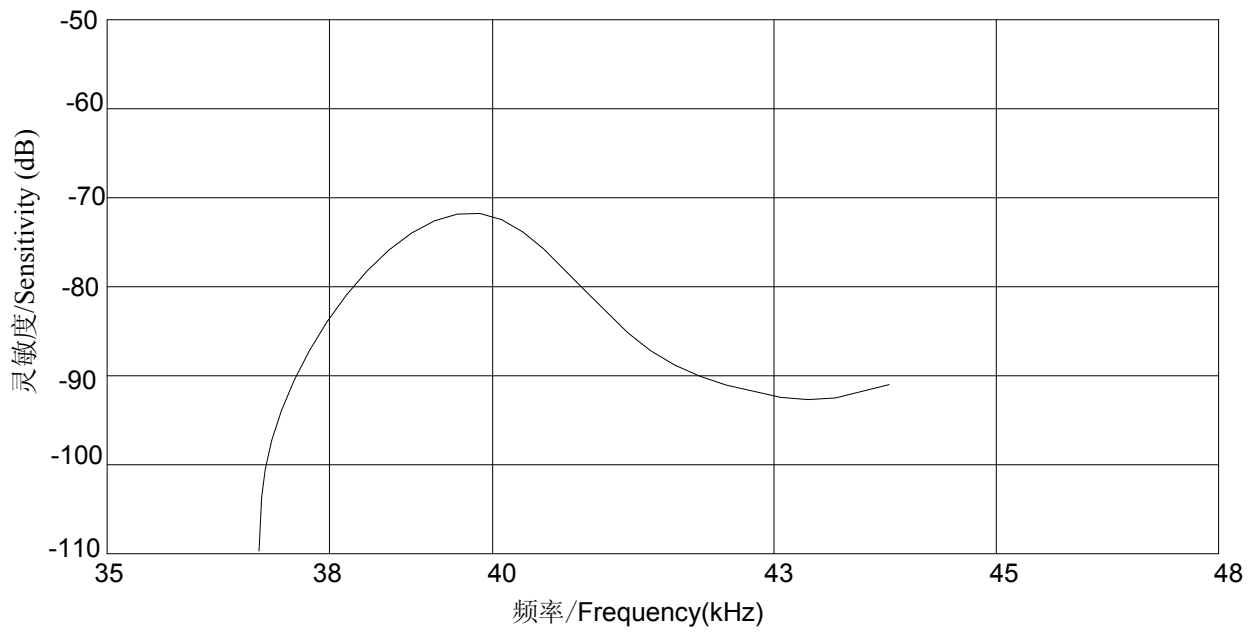
## C. Technical terms

No.	Item	Unit	Specification
	Center frequency(KHz)		$40 \pm 1.0$ KHz
	Echo Sensitivity		$\geq 250$ mV
	Decay Time		$\leq 1.2$ ms
	Directivity (deg) X-axis		$60 \pm 15$
	Directivity (deg) Y-axis		$60 \pm 15$
	Capacitance (pF)		$2000 \pm 15\%$
	Allowable Maximum Input Voltage(Vp-p)		140(40KHz) Pulse width 0.5ms, interval 20ms
	Operating Temperature( $^{\circ}$ C)		-40~+80
	Storage temperature( $^{\circ}$ C)		-40~+85

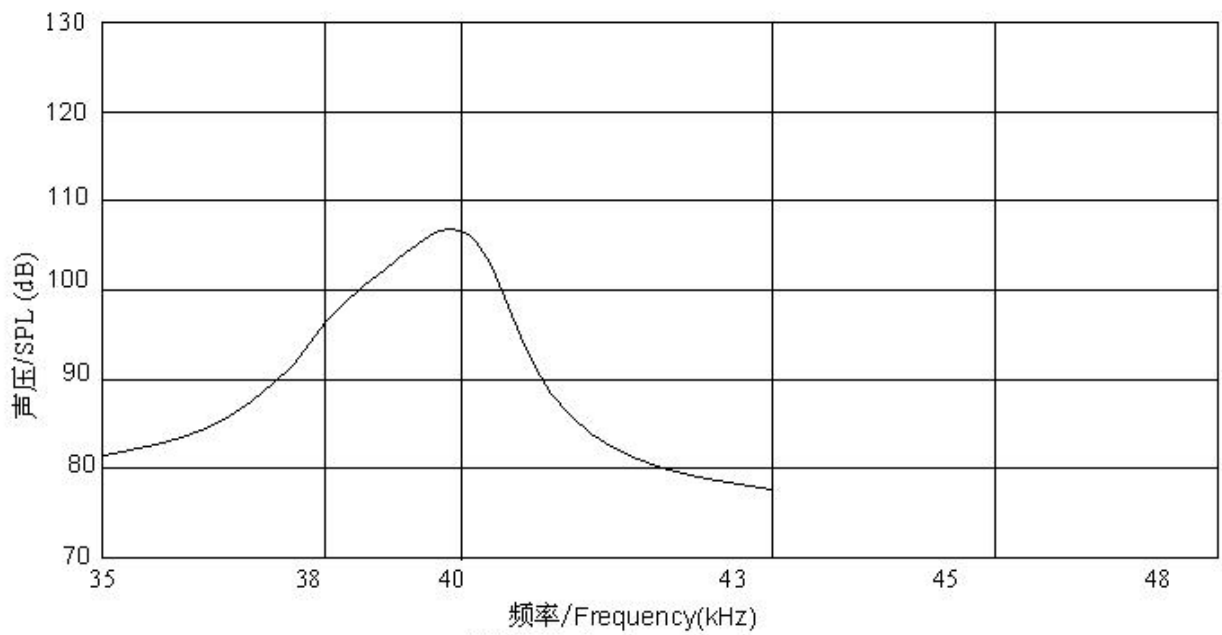
## D .Drawing



## 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 Cappacitor Microphone

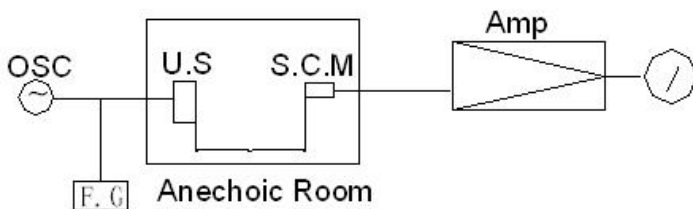
Amp. : Amplifier

OSC. : Oscillator

Sp : Tweeter

F.C : Frequency Counter

### Transmitter



U.S : Ultrasonic Sensor

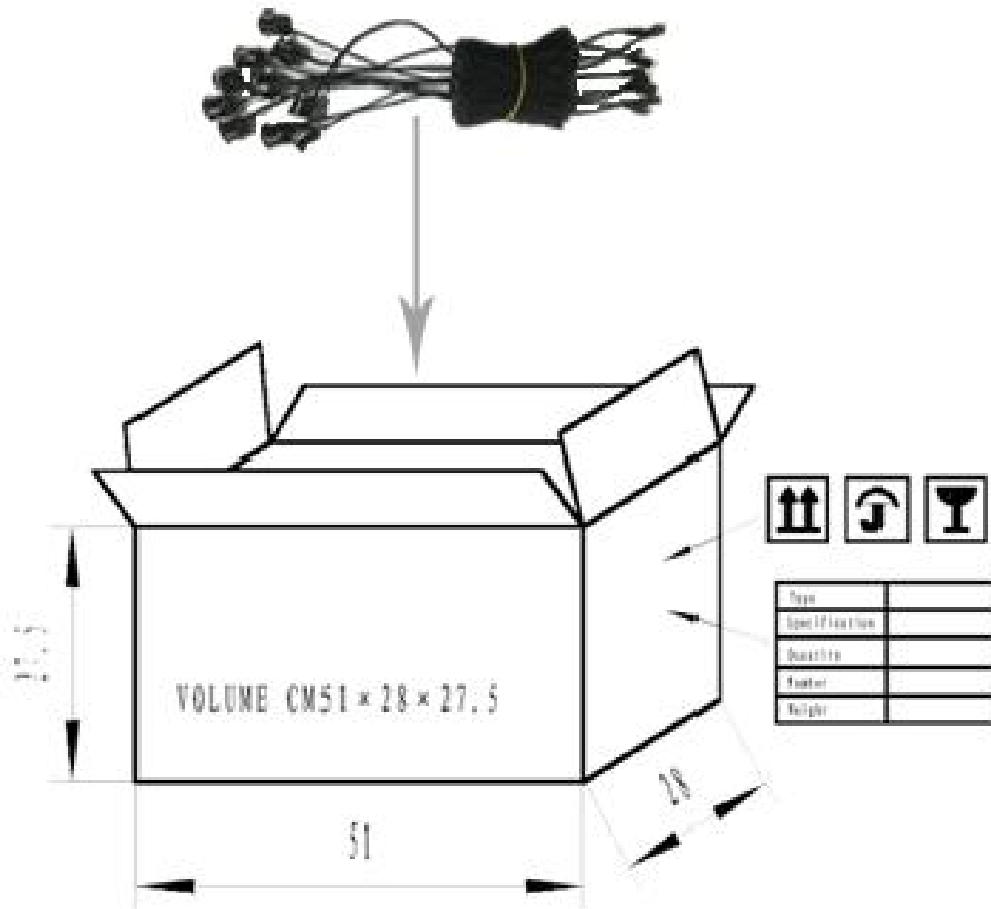
S.C.M: Standard Cappacitor Microphone

Amp. : Amplifier

Input voltage:  $10V_{rms}$

F.C : Frequency Counter

## G. Packing



### NOTES:

1. 10 PCS per box
2. Total 30 boxes per carton
3. Total 300 PCS carton
4. Volume:  $51 \times 28 \times 27.5$  cm