

# 規格承認書

PECIFICATION FOR APPROVAL

客 戶

CUSTOMER : \_\_\_\_\_

項 目

ITEM : 压电有源蜂鸣器（内含驱动电路）

型 號

TYPE : GPD2310L100-12V3500 线长可定制

描述

DESCRIPTION :  $\Phi$  23.0 x H10 mm 3500Hz 12V  $\geq$ 85DB ABS 材质 L=100 mm

客戶料號

CUSTOMER NO. : C530467

規格書號

SPECIFICATION NO.: \_\_\_\_\_

版 本

EDITION NO. : V1.0

日 期

DATE : \_\_\_\_\_

## 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
刘波	刘承成	李海飞

地址：廣東省東莞市長安鎮新崗社區新崗路 41 号华茂 15 楼

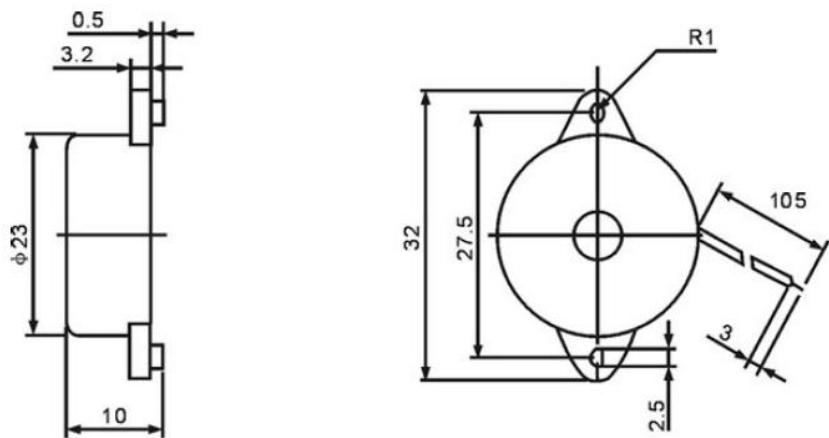
電話 / TEL: 0769-83060958 傳真 / FAX: 0769-81608993

網址: HTTP://WWW.INGHAI.COM

# DONGGUAN INGHAI ELECTRONICS CO.,LTD

**Model NO:** GPD2310L105-12V3500

**A: DIMENSIONS** Unit:mm      Tolerance:  $\pm 0.5$



## B: SPECIFICATIONS

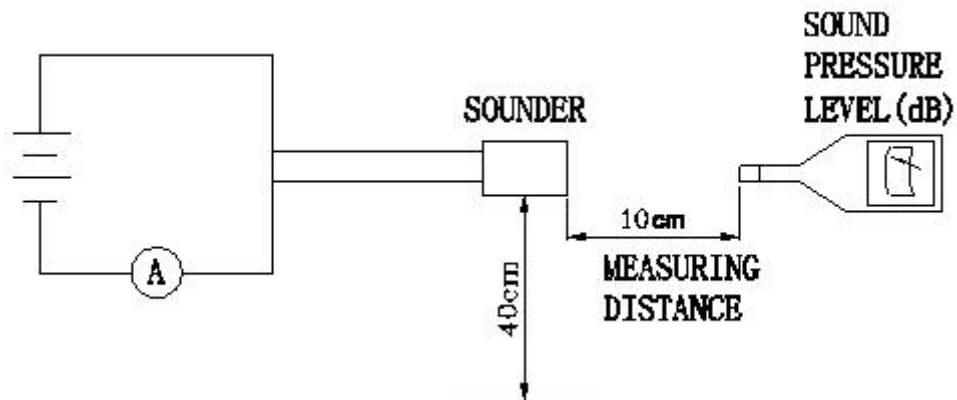
Model NO	GPD2310L100-12V3500
Rated Voltage	12VDC
Operating Voltage	3-24VDC
Max.Rated Current	Max.10mA
Sound Pressure level(dB/min) at 30cm	Min.85dB
Resonant Frequency	$3500 \pm 500\text{Hz}$
Operating Temperature	$-20\text{ }^{\circ}\text{C} \sim +60\text{ }^{\circ}\text{C}$
Storage Temperature	$-30\text{ }^{\circ}\text{C} \sim +70\text{ }^{\circ}\text{C}$
Case material and color	ABS / Black

### Measuring condition

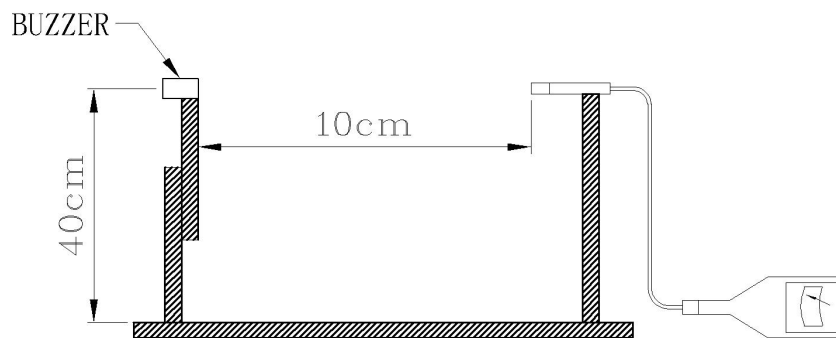
Part shall be measured under a condition (Temperature:  $5 \sim 35^{\circ}\text{C}$ , Humidity:  $45\% \sim 85\%\text{R.H.}$ , Atmospheric pressure:  $860 \sim 1060\text{hPa}$ ) unless the standard condition (Temperature:  $25 \pm 3^{\circ}\text{C}$ , Humidity:  $60 \pm 10\%\text{R.H.}$ , Atmospheric pressure:  $860 \sim 1060\text{hPa}$ ) is regulated to measure.

## C: Acoustic Characteristics:

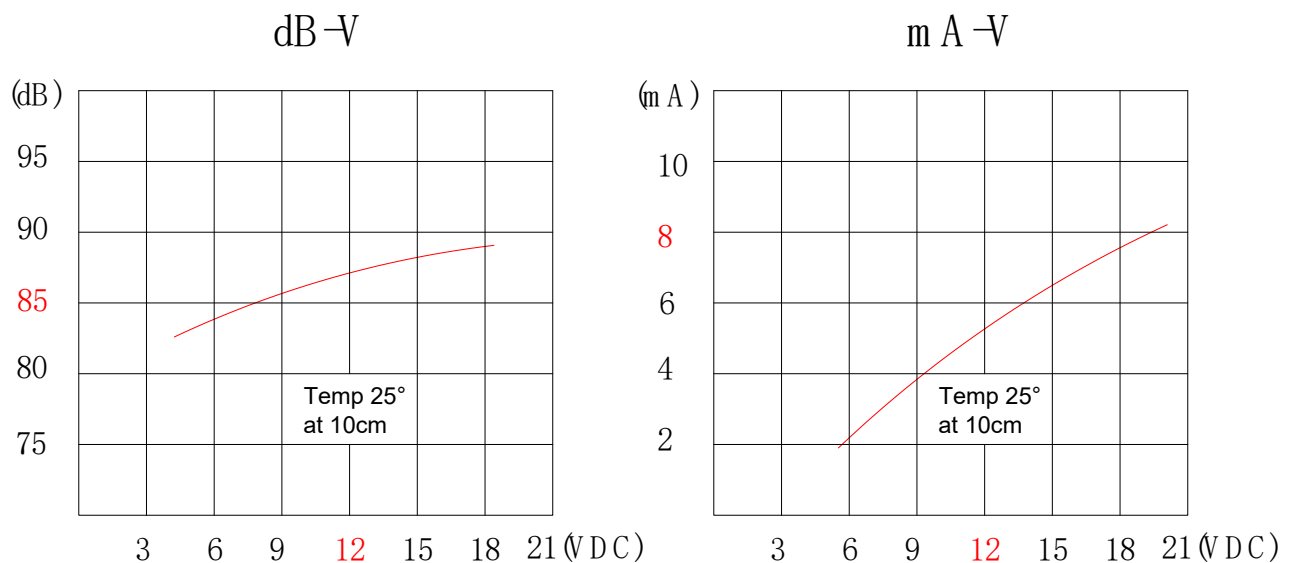
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



## D: VOLTAGE / CURRENT / SOUND PRESSURE CHARACTERISTICS



## E: Reliability Test

After any following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall not deviate more than -10 dB from the initial value

### 1. Ordinary Temperature Life Test

The part shall be subjected to 96 hours at  $25 \pm 10^{\circ}\text{C}$ . Input rated voltage  
Resonant frequency, 1/2 duty Square wave.

### 2. High Temperature Test

The part shall be capable of with standing a storage temperature of  $+70^{\circ}\text{C}$  for 96 hours.

### 3. Low Temperature Test

The part shall be capable of with standing a storage temperature of  $-30^{\circ}\text{C}$  for 96 hours.

### 4. Humidity Test

Temperature:  $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$  Relative Humidity: 90% ~ 95% Duration: 48 hours  
and expose to room temperature for 6 hours

### 5. Temperature Shock Test

Temperature:  $60^{\circ}\text{C}$  /1hour  $\rightarrow$   $25^{\circ}\text{C}$ /3hours  $\rightarrow$   $-30^{\circ}\text{C}$ /1hour  $\rightarrow$   $25^{\circ}\text{C}$ /3hours (1cycle)  
Total cycle: 10 cycles

### 6. Drop Test

Standard Packaging From 120mm (Drop on hard wood or board of 5cm thick,  
three sides, six plain.)

### 7. Vibration Test

Vibration: 1000cycles /min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

### Note:

As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter it.