

# 規格承認書

PECIFICATION FOR APPROVAL

客 戶

CUSTOMER : 立創

項 目

ITEM : 贴片式压电无源蜂鸣器（外部驱动）

型 號

TYPE : GSC1102YB-3V4000

描述

DESCRIPTION : L11.0 x W9.0 x H1.7 MM 4000Hz 3V ≥70DB 正发音 LCP 材质

客戶料號

CUSTOMER NO. :

規 格 書 號

SPECIFICATION NO.:

版 本

EDITION NO. : V1.0

日 期

DATE : 2019-12-26

## 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
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## A. SCOPE

This specification applies SMD piezoelectric buzzer, GSC1102YB-3V4000

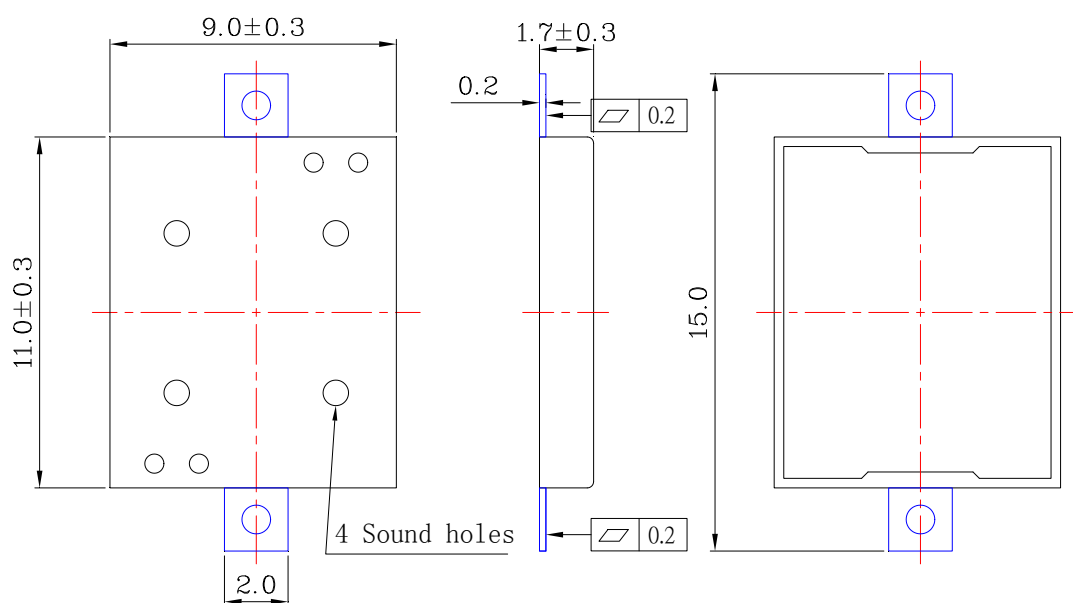
## B. SPECIFICATION

1	Model No.	GSC1102YB
2	Rated Voltage (Vp-p)	3
3	Operating Voltage (Vp-p)	1~25
4	Resonant Frequency (Hz)	$4000 \pm 500$
5	Static Capacitance at 100Hz 1V (PF)	$12000 \pm 30\%$
6	*Sound Output at 10cm / Rated Voltage / 4000 Hz (dB)	$\geq 70$
7	*Current Consumption (mA) at Rated Voltage	$\leq 3$
8	Operating Temperature (°C)	-30~+85
9	Storage Temperature (°C)	-40~+85
10	Weight (g)	0.3
11	Housing Material	LCP
12	RoHS	Yes

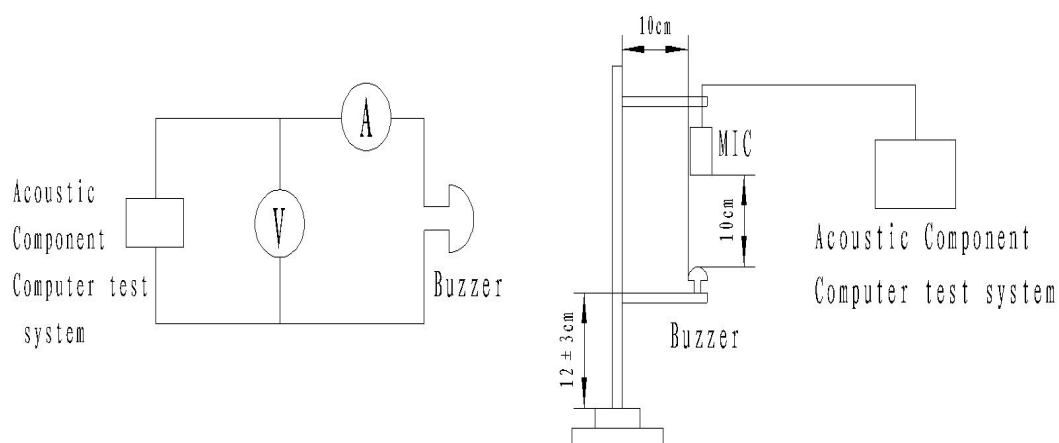
### Measuring condition

Part shall be measured under a condition (Temperature: 5~35°C, Humidity: 45%~85%R.H., Atmospheric pressure: 860 ~ 1060hPa) unless the standard condition (Temperature: 25±3°C, Humidity: 60±10%R.H. Atmospheric pressure: 860 ~ 1060hPa) is regulated to measure.

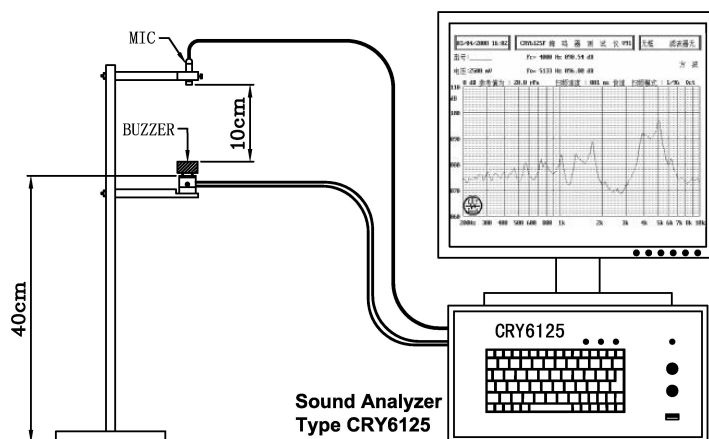
## C. APPEARANCE DRAWING



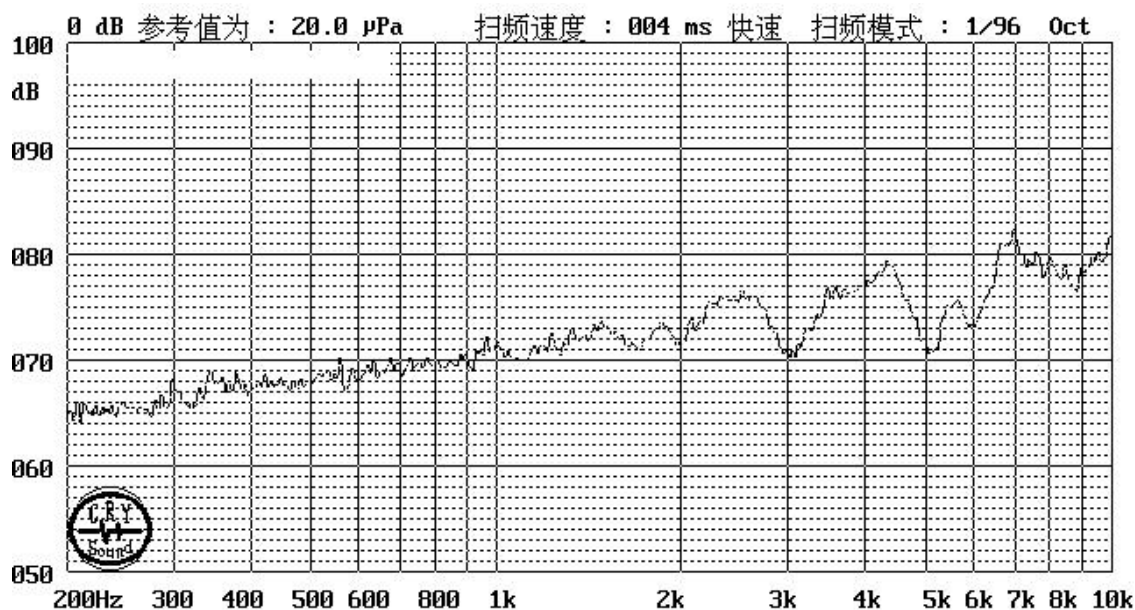
## D: TEST METHOD:



In the measuring test, buzzer is placed as follows:



## E: FREQUENCY RESPONSE:



## F: 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  $+85^{\circ}\text{C}$  for 96 hours.

### 3. Low Temperature Test

The part shall be capable of with standing a storage temperature of  $-40^{\circ}\text{C}$  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:  $85^{\circ}\text{C}$  /1hour →  $25^{\circ}\text{C}$ /3hours →  $-30^{\circ}\text{C}$ /1hour →  $25^{\circ}\text{C}$ /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.)

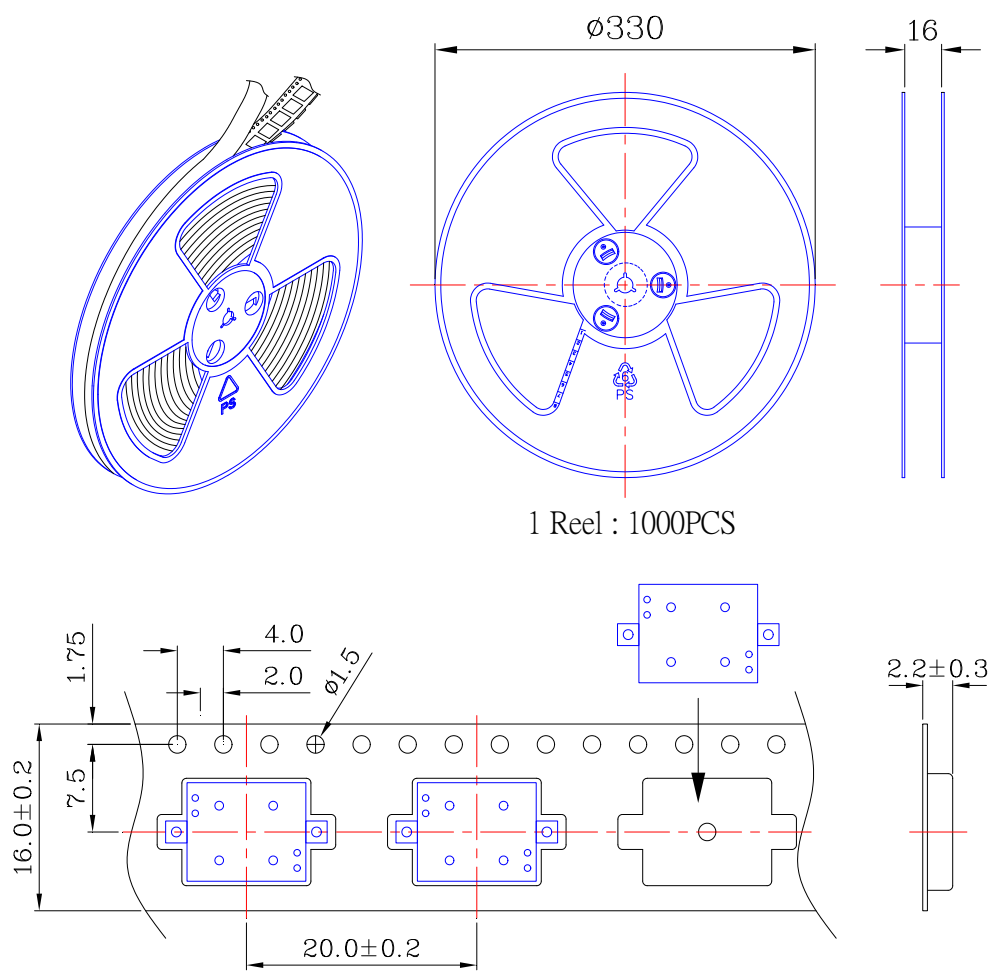
### 7. Vibration Test

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

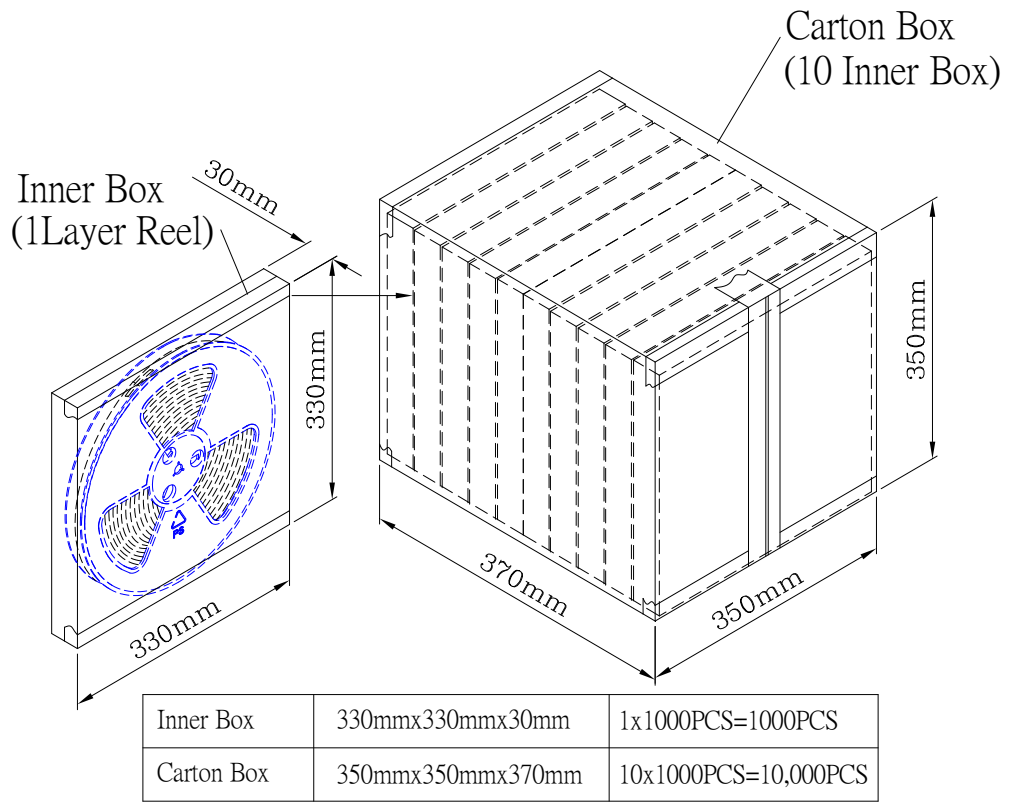
### Note:

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.

G: PACKING STANDA



1 Reel : 1000PCS



Inner Box	330mmx330mmx30mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS