

# 規格承認書

## PECIFICATION FOR APPROVAL

客 戶

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

項 目

ITEM : 压电式无源蜂鸣器（外部驱动）

型 號

TYPE : GPC9242YB-12V6000

描述

DESCRIPTION : 9.2 x 4.2 MM 3-30V 6000Hz 7000±30% ≤75DB PPO 材质 P=4.6MM

客戶料號

CUSTOMER NO. : C1121912

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上沙第五工業區新春科技園

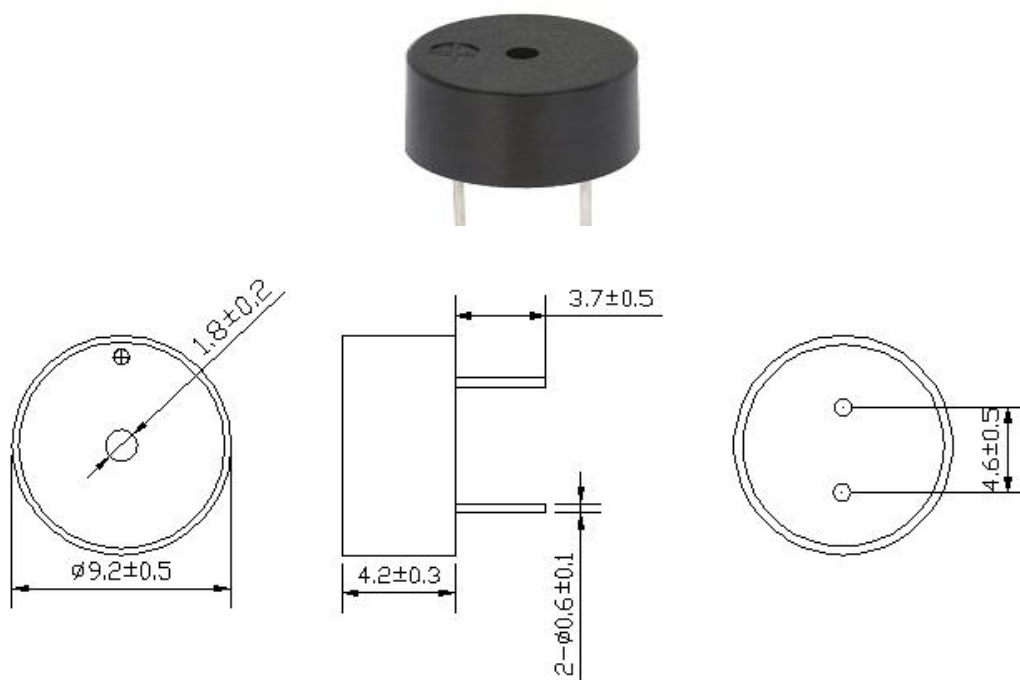
電話 / TEL: 0769-83060958 傳真 / FAX: 0769-81608993

網址: HTTP://WWW.INGHAI.COM

## DONGGUAN INGHAI ELECTRONICS CO.,LTD

Model NO: GPC9242YB-12V6000

DIMENSIONS Unit:mm



## A: SPECIFICATIONS

Customer:		Part No:	
Product: Piezoelectric Buzzers		A&T Part No:	
Technical Terms			
Resonant Frequency (KHZ)		6.0±0.5	
Rated Voltage (V <sub>P-P</sub> )		12	
Operating Voltage (V <sub>P-P</sub> )		1~30	
Max. Current Consumption at Rated Voltage (mA)		30	
Capacitance at 1000Hz (Pf)		7000±30%	
Min. Sound Output at 10cm at Rated Voltage (dB)		≥70	
Operating Temperature (°C)		-20~+105	
Storage Temperature (°C)		-30~+105	
Housing Material		PBT(Black)	
Environmental Protection Regulation		RoHS	
Buzzer		Soldering Parameter	
Soldering process		Temp.(°C)	Time(Sec.) Times

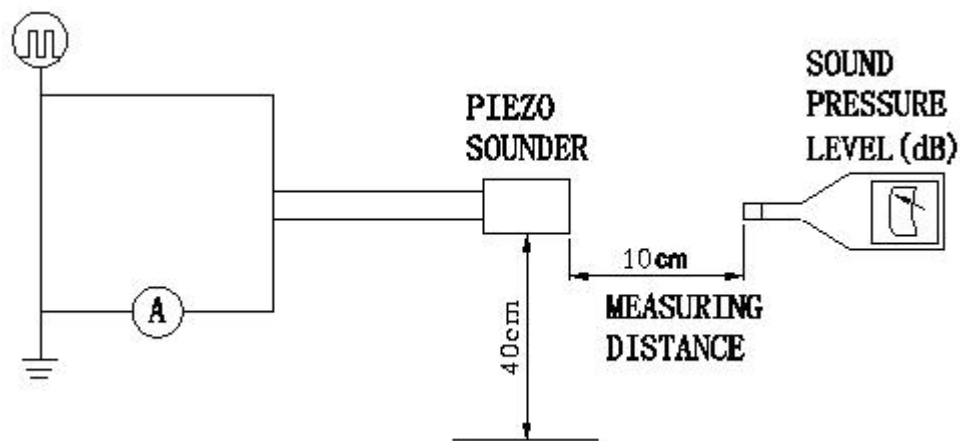
<b>Inclusive Lead</b>		<b>Reflow soldering</b>	<b>230±10</b>	<b>above 170°C time 40~70</b>	<b>2</b>
		<b>Wave soldering</b>	<b>245±5</b>	<b>3~6</b>	<b>1~2</b>
		<b>Manual soldering</b>	<b>330±10</b>	<b>1~2</b>	<b>1~2</b>
<b>Lead Free</b>		<b>Reflow soldering</b>	<b>245±15</b>	<b>above 180°C time 40~70</b>	<b>3</b>
	★	<b>Wave soldering</b>	<b>260±5</b>	<b>4~8</b>	<b>2~3</b>
	★	<b>Manual soldering</b>	<b>350±10</b>	<b>1~3</b>	<b>2~3</b>

### Measuring condition

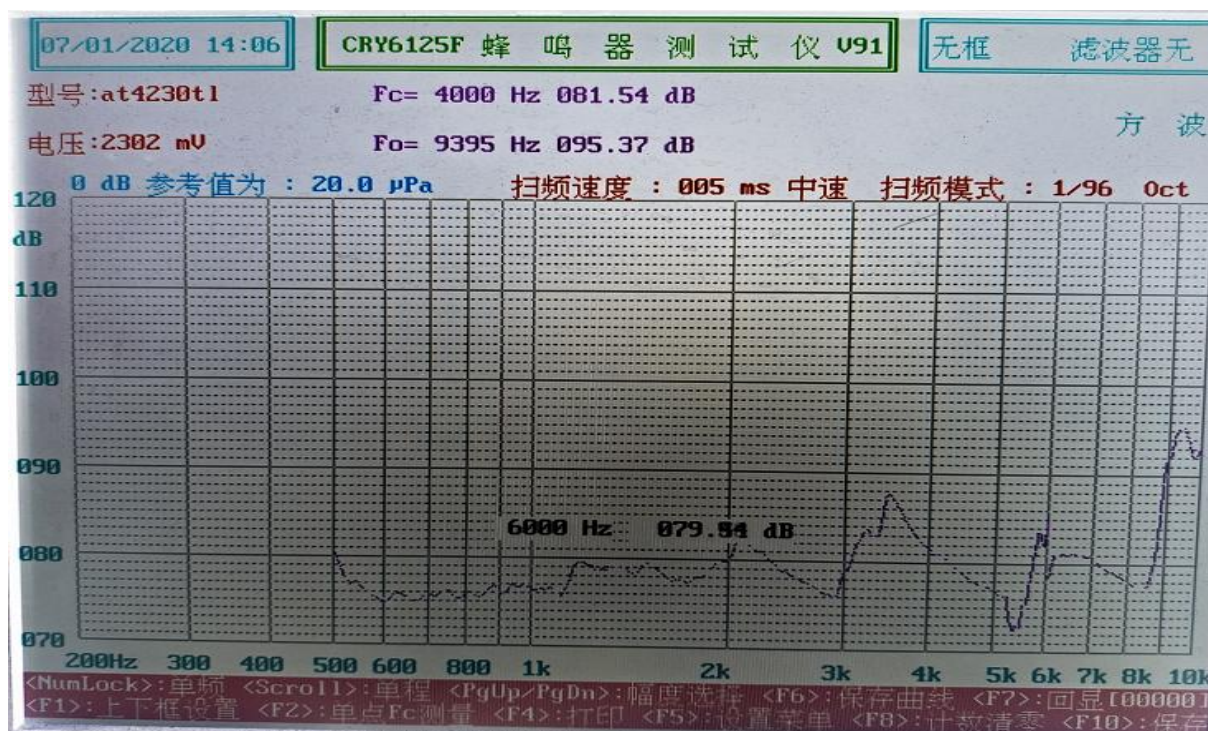
Part shall be measured under a condition (Temperature: 5~35°C, Humidity: 45%~85%R.H., Atmospheric pressure: 860 ~1060hPa) unless the standard condition (Temperature: 25±3°C, Humidity: 60±10%R.H. Atmospheric pressure: 860 ~1060hPa) is regulated to measure.

### B: Acoustic Characteristics:

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



### C: Typical Frequency Response Curve



## D: 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  $+80^\circ\text{C}$  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:  $70^\circ\text{C}$  /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.