

# 規格承認書

PECIFICATION FOR APPROVAL

客 戸

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

項 目

ITEM : 压电式无源蜂鸣器（外部驱动）

型 號

TYPE : GPC9242YB-9V6000

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. : C1323277

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<br>TESTED BY | 審 核<br>CHECKED BY | 承 認<br>APPROVED BY |
|------------------|-------------------|--------------------|
|                  |                   |                    |

東莞市贏海電子有限公司

DONGUAN INGHAI ELECTRONICS CO.,LTD

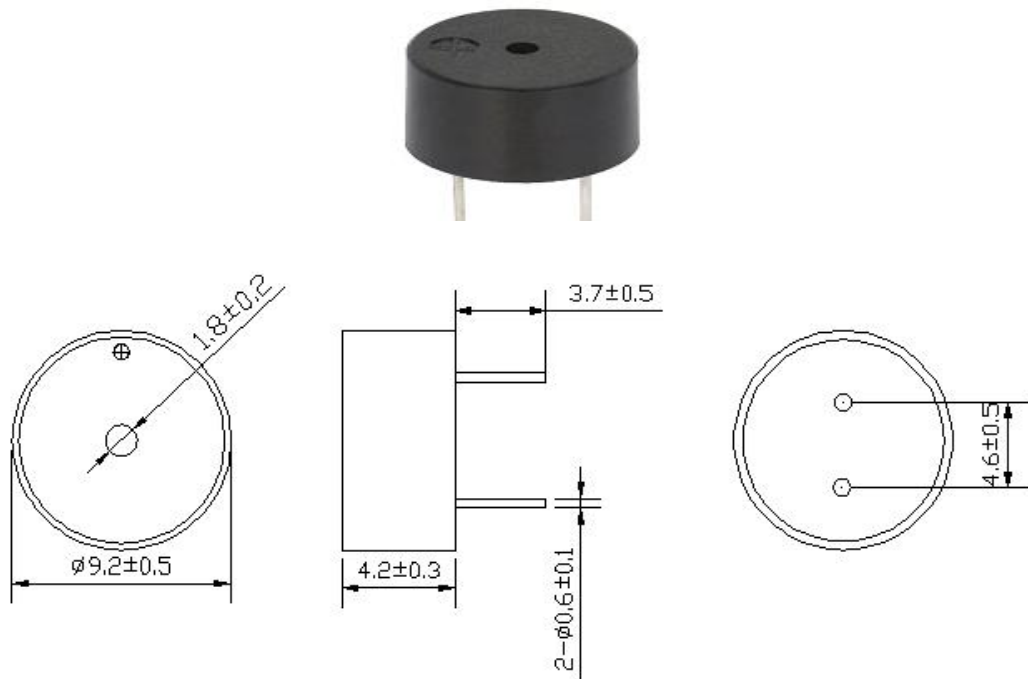
| 製 作<br>ISSUED BY | 審 查<br>CHECKED BY | 確 認<br>APPROVED BY |
|------------------|-------------------|--------------------|
| 刘波               | 刘承成               | 李海飞                |

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DONGGUAN INGHAI ELECTRONICS CO.,LTD

Model NO: GPC9242YB-9V6000

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> )               |                     | 9            |       |
| 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 |

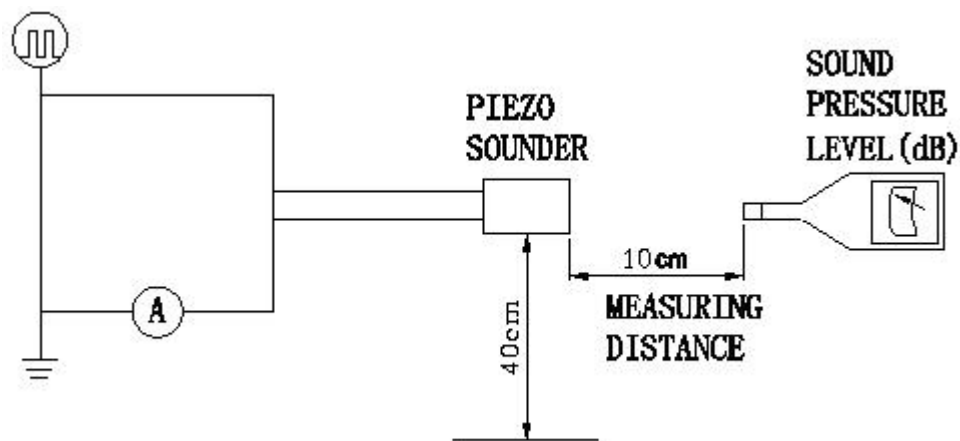
|                       |   |                         |               |                               |            |
|-----------------------|---|-------------------------|---------------|-------------------------------|------------|
| <b>Inclusive Lead</b> |   | <b>Reflow soldering</b> | <b>230±10</b> | <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

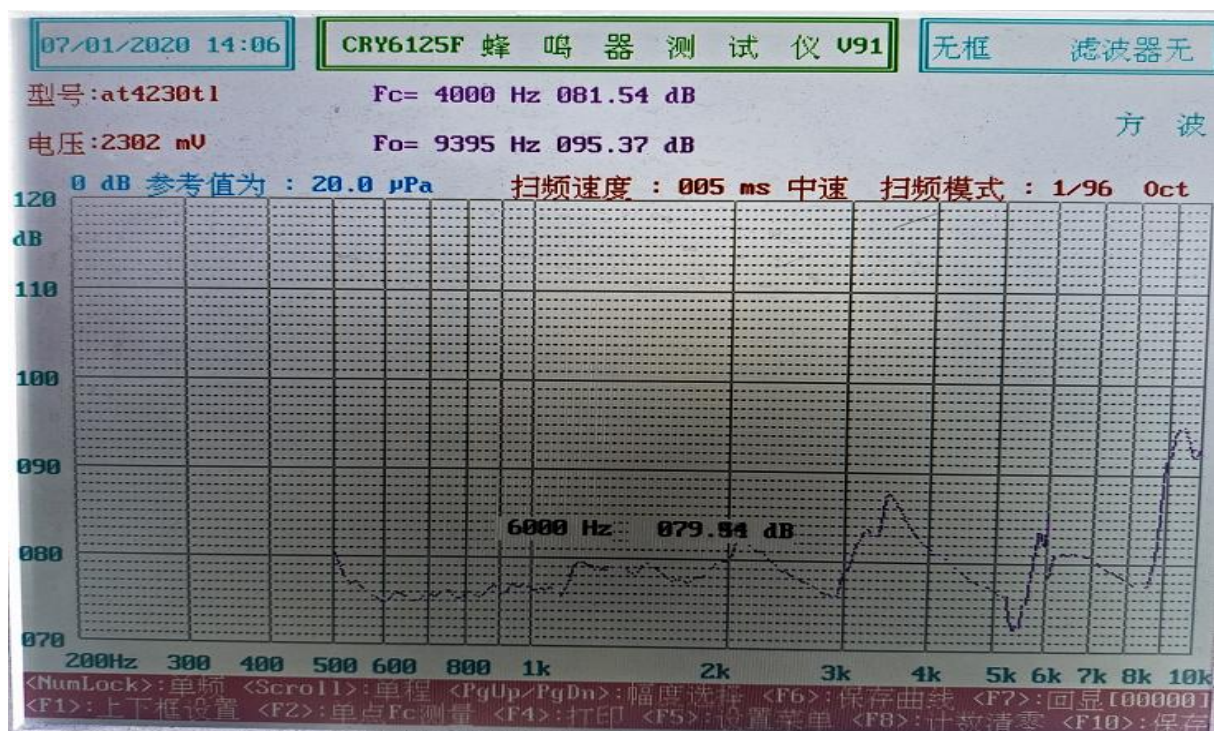
Part shall be measured under a condition (Temperature: 5~35°C, Humidity: 45%~85%R.H., Atmospheric pressure: 860 ~1060hPa) unless the standard condition (Temperature: 25±3°C, Humidity: 60±10%R.H. Atmospheric pressure: 860 ~1060hPa) is regulated to measure.

### 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.