

# SPECIFICATION FOR APPROVAL

## 承 认 书

Description : **Magnetic Buzzer**

Vender's Part No. : **SN-09605CF-05**

Customer's. Part No. :

Serial No. :

Version No. : **1.1**

| CUSTOMER'S APPROVED SIGNATURE |  |  |
|-------------------------------|--|--|
|                               |  |  |

| Approved By | Checked By | Made By |
|-------------|------------|---------|
|             |            | 曹小丽     |

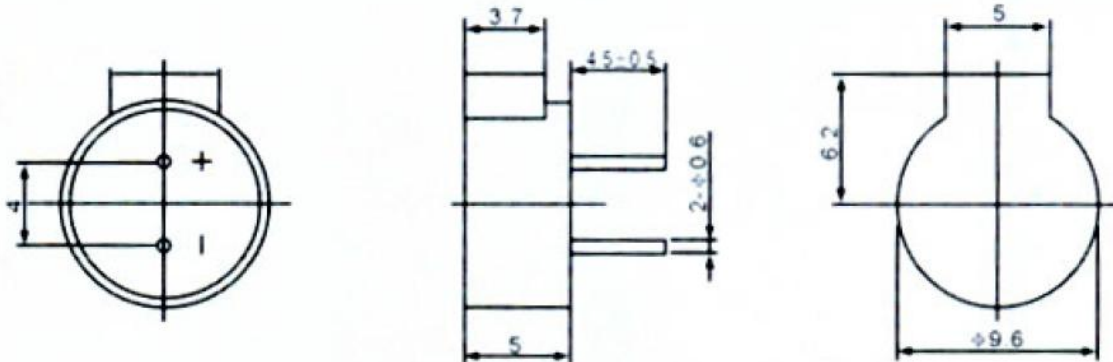
### A. SCOPE

This specification applies magnetic buzzer, **SN-09605CF**

## B. SPECIFICATION

| No. | Item                                | Unit               | Specification        | Condition                  |
|-----|-------------------------------------|--------------------|----------------------|----------------------------|
| 1   | Oscillation Frequency               | Hz                 | 2731                 | Vo-p=1/2duty , square wave |
| 2   | Operating Voltage                   | Vo-p               | 3 ~ 5                |                            |
| 3   | Rated Voltage                       | Vo-p               | 3.6                  |                            |
| 4   | Current Consumption                 | mA                 | MAX.70               | at Rated Voltage           |
| 5   | Sound Pressure Level                | dB                 | MIN. 85              | at 10cm at Rated Voltage   |
| 6   | Coil Resistance                     | $\Omega$           | 25 $\pm$ 4           |                            |
| 7   | Operating Temperature               | $^{\circ}\text{C}$ | -20 ~ +70            |                            |
| 8   | Storage Temperature                 | $^{\circ}\text{C}$ | -30 ~ +80            |                            |
| 9   | Dimension                           | mm                 | $\Phi$ 9.6 x H5.0    | See appearance drawing     |
| 10  | Weight (MAX)                        | gram               | 1.0                  |                            |
| 11  | Housing Material                    |                    | PP0( Black )         |                            |
| 12  | Leading Pin                         |                    | Tin Plated Brass(Sn) | See appearance drawing     |
| 13  | Environmental Protection Regulation |                    | RoHS                 |                            |

C. APPEARANCE DRAWING Tol :  $\pm 0.5$  Unit: mm



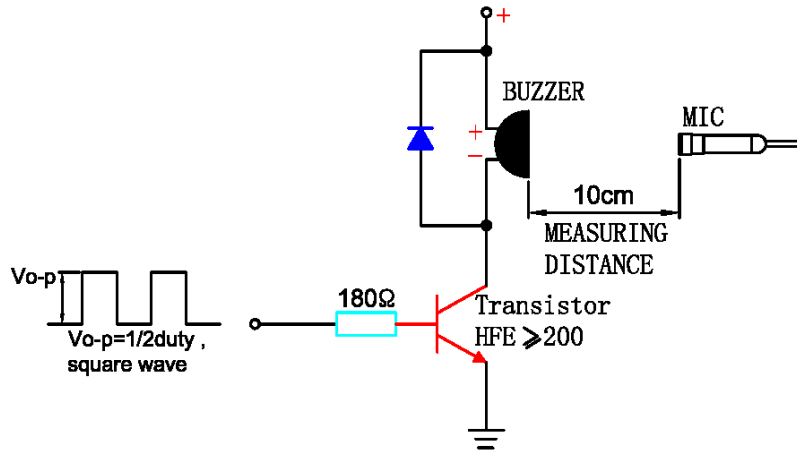
## D. TESTING METHOD

### Standard Measurement conditions

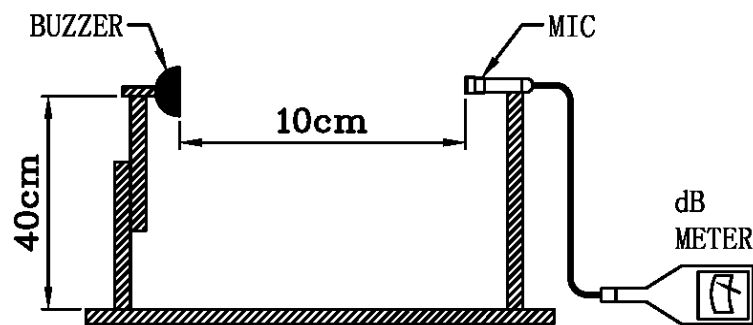
Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-65%

### Acoustic Characteristics:

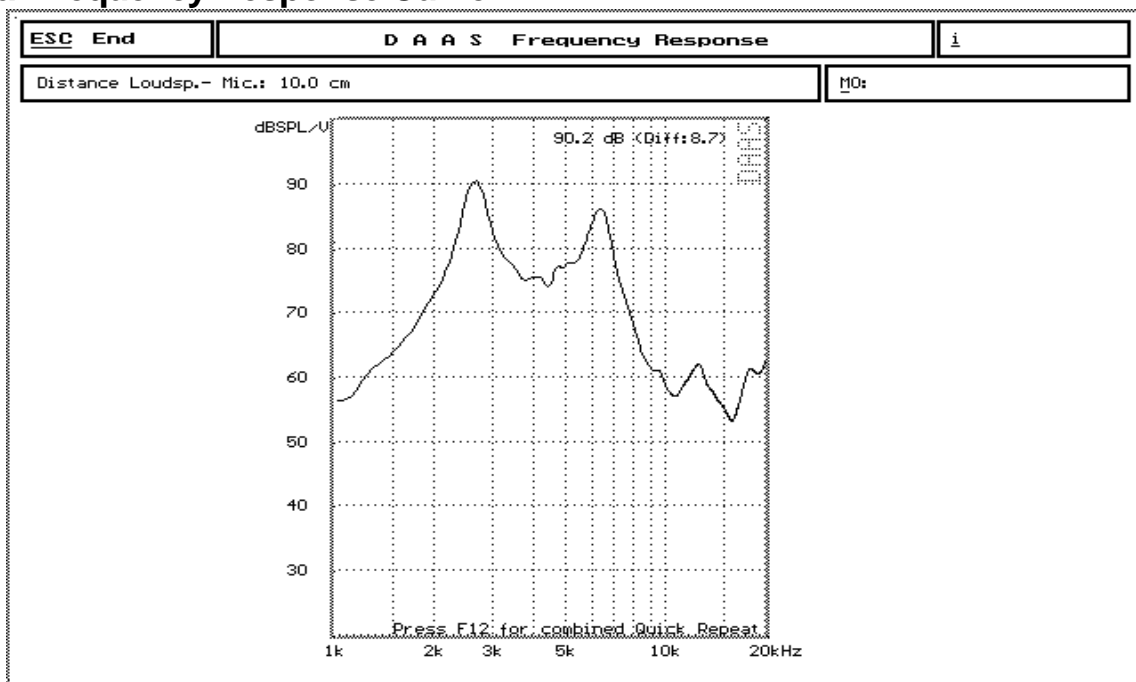
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below (Recommend Driving Circuit)



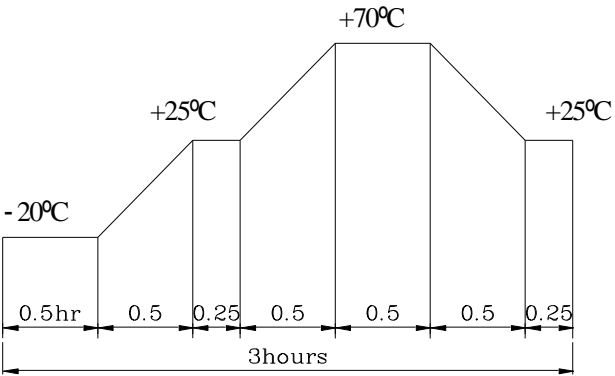
In the measuring test, buzzer is placed as follows:



## E. Typical Frequency Response Curve



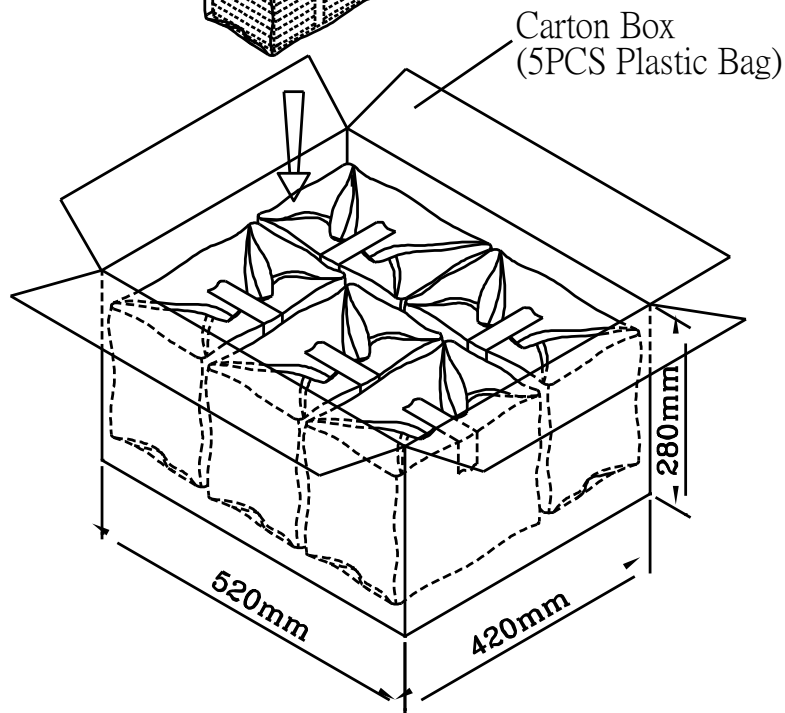
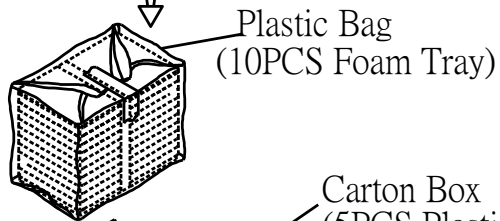
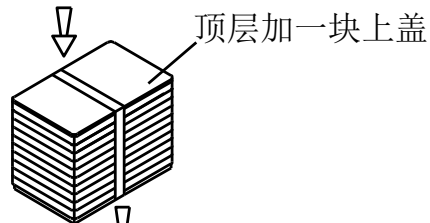
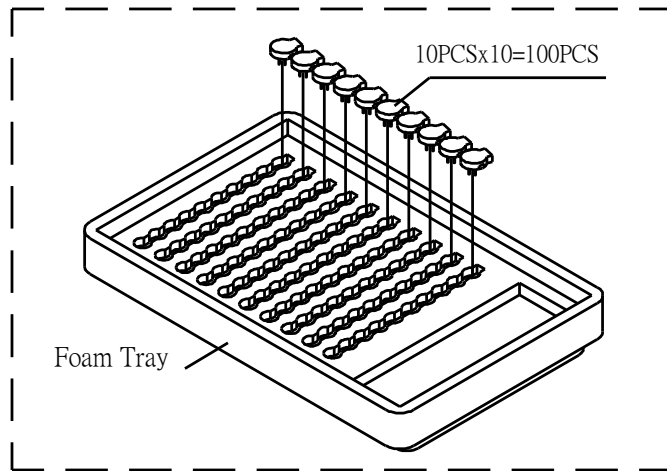
## F. RELIABILITY TEST

| NO. | ITEM                            | TEST CONDITION AND REQUIREMENT  |
|-----|---------------------------------|---|
| 1   | High Temperature Test (Storage) | After being placed in a chamber with 70 ± 2 °C for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: 10dB.  |
| 2   | Low Temperature Test (Storage)  | After being Placed in a chamber with -30 ± 2 °C for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: 10dB.   |
| 3   | Humidity Test                   | After being Placed in a chamber with 90-95% R.H. at 40 ± 2 °C for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: 10dB.   |
| 4   | Temperature Cycle Test          | <p>The part shall be subjected to 5 cycles. One cycle shall be consist of :</p>  <p>The diagram shows a temperature cycle profile over a total duration of 3 hours. The cycle starts at -20°C for 0.5 hours. It then ramps up to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, ramps up to +70°C in 0.5 hours, holds at +70°C for 0.5 hours, ramps down to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, and finally ramps down to -20°C in 0.5 hours. The total duration is 3 hours.</p> <p>Allowable variation of SPL after test: 10dB.</p> |
| 5   | Drop Test                       | Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm .<br>Allowable variation of SPL after test: 10dB.  |
| 6   | Vibration Test                  | After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours .<br>Allowable variation of SPL after test: 10dB.  |
| 7   | Solderability Test              | Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300 ± 5 °C for 3 ± 1 seconds .<br>90% min. lead terminals shall be wet with solder<br>(Except the edge of terminals).   |
| 8   | Terminal Strength Pulling Test  | The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds.<br>No visible damage and cutting off.   |

### TEST CONDITION.

|                         |   |                             |                      |                            |
|-------------------------|---|-----------------------------|----------------------|----------------------------|
| Standard Test Condition | : | a) Temperature : +5 ~ +35°C | b) Humidity : 45-85% | c) Pressure : 860-1060mbar |
| 一般测试条件                  | : | a) 温度 : +5 ~ +35°C          | b) 湿度 : 45-85%       | c) 气压 : 860-1060mbar       |
| Judgment Test Condition | : | a) Temperature : +25 ± 2°C  | b) Humidity : 60-70% | c) Pressure : 860-1060mbar |
| 争议时测试条件                 | : | a) 温度 : +25 ± 2°C           | b) 湿度 : 60-70%       | c) 气压 : 860-1060mbar       |

# G. PACKING STANDARD



|             |                   |                    |
|-------------|-------------------|--------------------|
| Foam Tray   | 240mmx160mmx30mm  | 1x100PCS=100PCS    |
| Plastic Bag |                   | 10x100PCS=1000PCS  |
| Carton Box  | 520mmx420mmx280mm | 5x1000PCS=5,000PCS |