



## Specification For Approval

Customer Name : \_\_\_\_\_

RHT P/N: \_\_\_\_\_ RHTCYT-12x09

Description : \_\_\_\_\_

Date : \_\_\_\_\_ 2026-7-17

|                           |
|---------------------------|
| Approved by               |
| Sign : date :             |
| Please return by one copy |

Design: \_\_\_\_\_ Pan \_\_\_\_\_ Checked: \_\_\_\_\_ Andy \_\_\_\_\_ Approved: \_\_\_\_\_ Feng \_\_\_\_\_

Address:Maoshan Industrial Park, Huajiafen Village, Jiangshan Town,

Yinzhou District Ningbo City, Zhejiang,POSTAL:315193

Tel:086-574-56176016 M:0086-15168501684

E-mail:info@rhatecp.com Web:www.rhatecp.com www.rhtconn.com

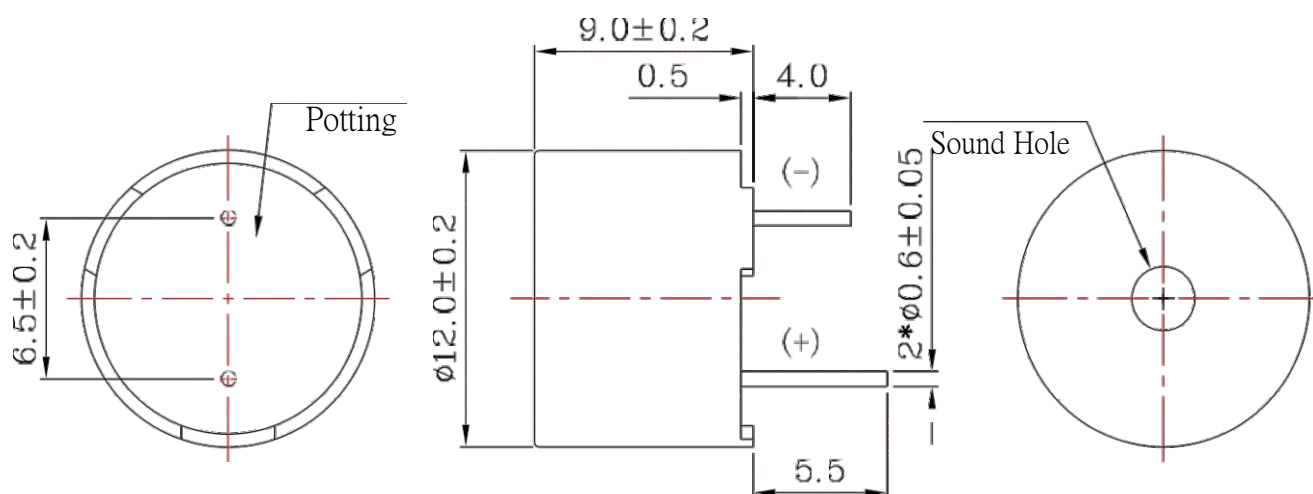
## A. SCOPE

This specification applies Externally driven magnetic buzzers, RHTCYT-12x09

## B. SPECIFICATION

| No. | Item                                | Unit               | Specification        | Condition                  |
|-----|-------------------------------------|--------------------|----------------------|----------------------------|
| 1   | Oscillation Frequency               | Hz                 | 2400                 | Vo-p=1/2duty , square wave |
| 2   | Operating Voltage                   | Vo-p               | 3 ~ 7                |                            |
| 3   | Rated Voltage                       | Vo-p               | 5                    |                            |
| 4   | Current Consumption                 | mA                 | MAX.40               | at Rated Voltage           |
| 5   | Sound Pressure Level                | dB                 | MIN. 85              | at 10cm at Rated Voltage   |
| 6   | Coil Resistance                     | $\Omega$           | 40 $\pm$ 5           |                            |
| 7   | Operating Temperature               | $^{\circ}\text{C}$ | -40 ~ +85            |                            |
| 8   | Storage Temperature                 | $^{\circ}\text{C}$ | -40 ~ +105           |                            |
| 9   | Dimension                           | mm                 | $\Phi$ 12.0 x H9.0   | See appearance drawing     |
| 10  | Weight (MAX)                        | gram               | 2.0                  |                            |
| 11  | Housing Material                    |                    | PPO( 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

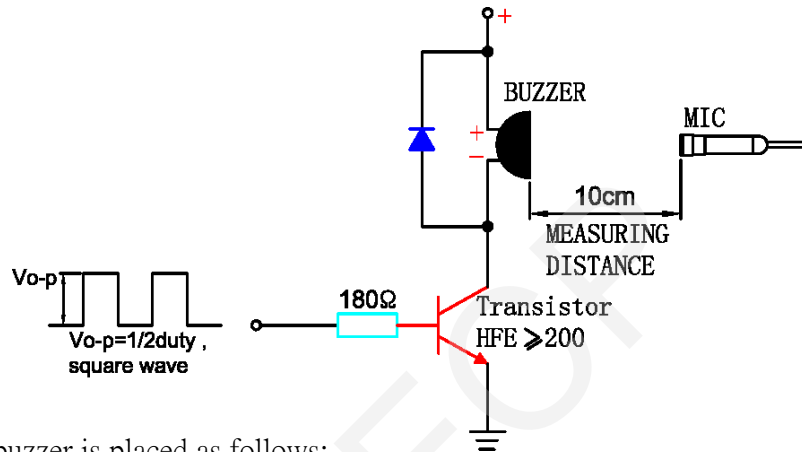
## D. TESTING METHOD

Standard Measurement conditions

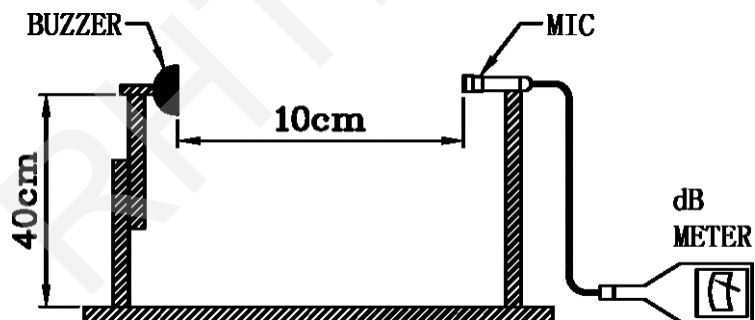
Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-65%

Acoustic Characteristics:

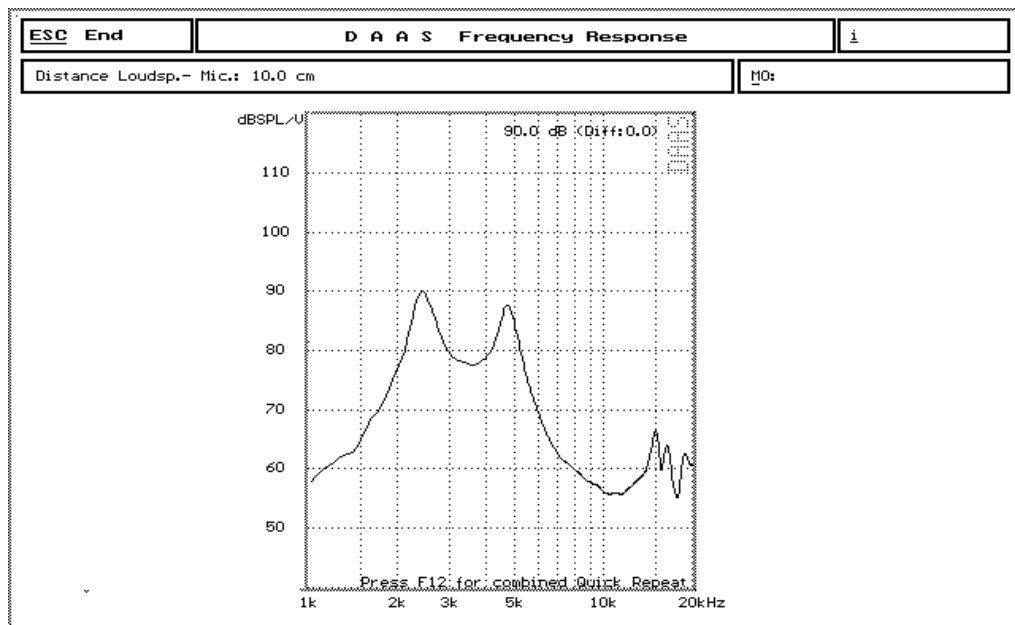
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below(Recommend Driving Circuit)



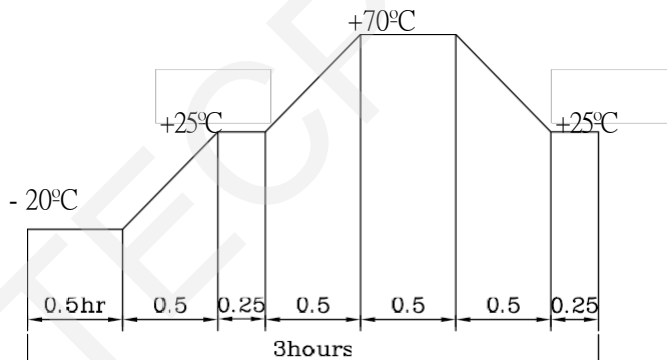
In the measuring test, buzzer is placed as follows:



## E. Typical Frequency ResponseCurve



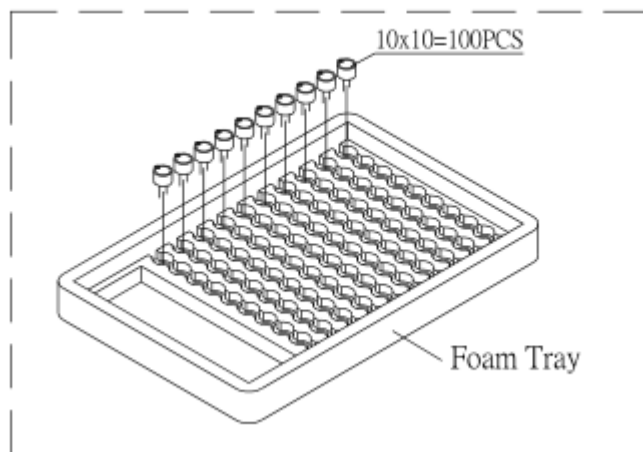
## F. RELIABILITY TEST

| NO. | ITEM                            | TEST CONDITION AND REQUIREMENT                                                                                                                                                                                                                  |
|-----|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | High Temperature Test (Storage) | After being placed in a chamber with $80\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: $\pm 10\text{dB}$ .                                                |
| 2   | Low Temperature Test (Storage)  | After being Placed in a chamber with $-30\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: $\pm 10\text{dB}$ .                                               |
| 3   | Humidity Test                   | After being Placed in a chamber with 90-95% R.H. at $40\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: $\pm 10\text{dB}$ .                                 |
| 4   | Temperature Cycle Test          | <p>The part shall be subjected to 5 cycles. One cycle shall be consist of :</p>  <p>Allowable variation of SPL after test: <math>\pm 10\text{dB}</math>.</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: $\pm 10\text{dB}$ .                                                                                           |
| 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: $\pm 10\text{dB}$ .                              |
| 7   | Solderability Test              | Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300\pm 5^{\circ}\text{C}$ for $3\pm 1$ seconds .<br>90% min. lead terminals shall be wet with solder (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.                                                                                                                   |

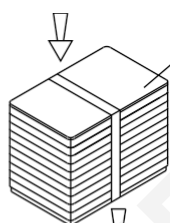
### TEST CONDITION.

Standard Test Condition : a) Temperature :  $+5 \sim +35^{\circ}\text{C}$  b) Humidity : 45-85% c) Pressure : 860-1060mbar

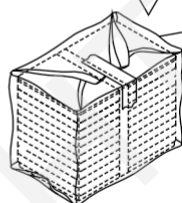
Judgment Test Condition : a) Temperature :  $+25 \pm 2^{\circ}\text{C}$  b) Humidity : 60-70% c) Pressure : 860-1060mbar



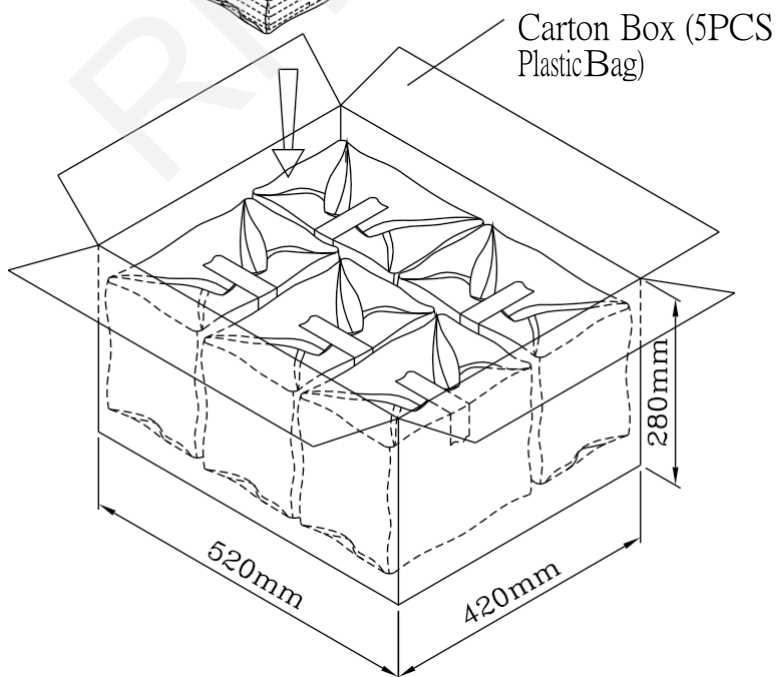
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Add a top cover on the upper layer.



Plastic Bag  
(10PCS Foam Tray)



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