

# SPECIFICATION FOR APPROVAL

## 承 认 书

DESCRIPTION : BUZZER  
PART NO. : cy-SMD-9019-3040  
USER' S PART NO. :  
DATE : 2007. 06. 15  
CUSTOMER APPROVED :

Approved By	Checked By	Made By

CHANGZHOU CHAOYIN ELECTRONIC CO., LTD

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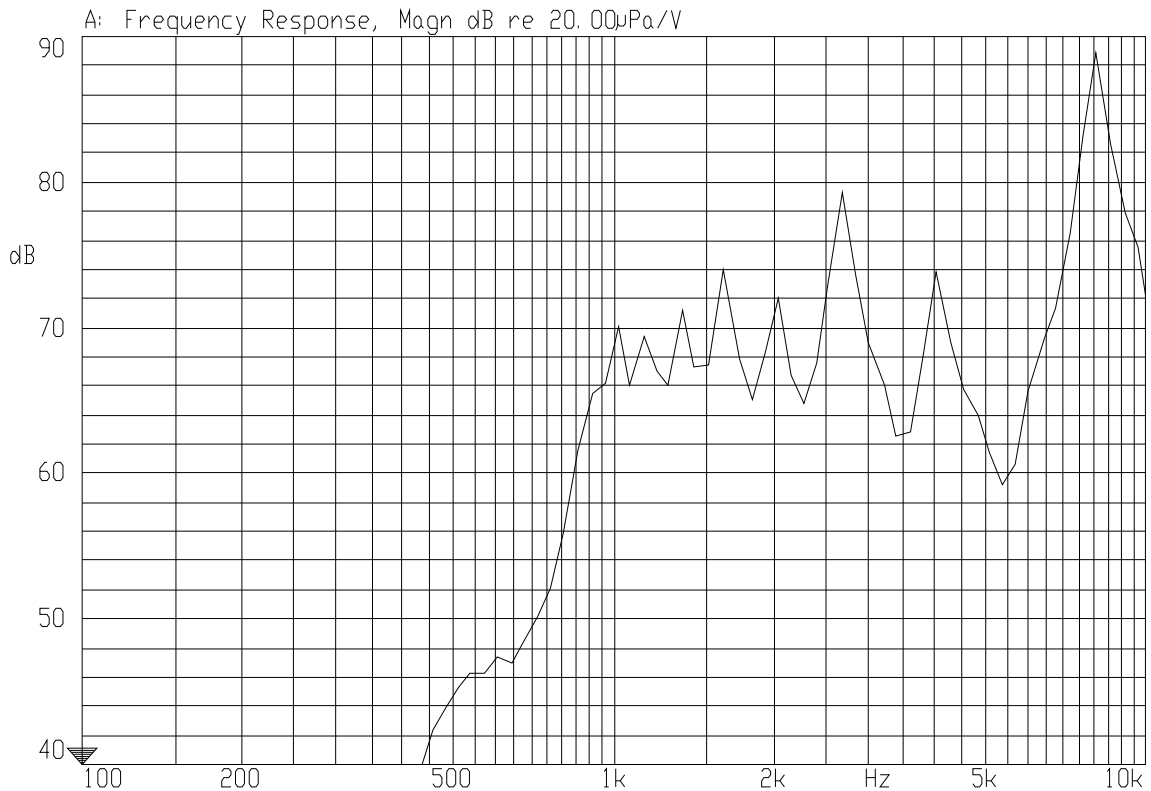
# 1 . Electrical Characteristics

VER .:0

Operating Voltage	1VP-P-25VP-P	Max25Vp-p
Current Consumption	Max 1mA at 3Vp-p/Square Wave/4.0KHz	
Sound Pressure Level	Min 70dB at 10cm/ 3Vp-p/Square Wave/4.0KHz	
Electrostatic Capacity	12000±30%pF at 120Hz/	
Operating Temperature (°C)	-30~ +70	
Storage Temperature (°C)	-40 ~ +85	
Dimension	L9×W9×H1.9mm	

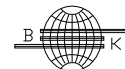
# 2 . Typical Frequency Response Curve

X: 100.00Hz \*Y: 13.29dB\* ZA: Live Curve SSR T. Ha.



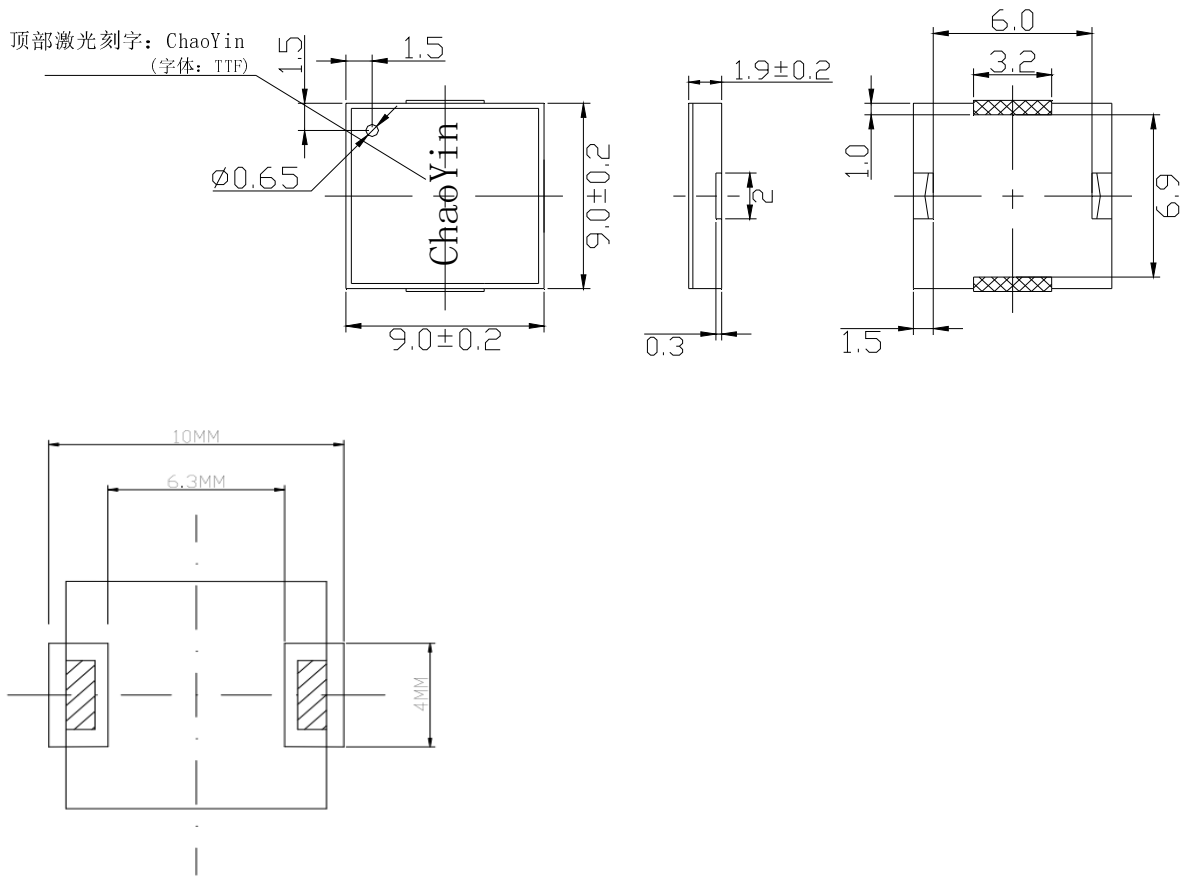
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Mode: SSR



### 3 . Dimensions and Material

#### 3-1 Shape Unit: mm



注：建议PCB基板尺寸图样

#### 3-2 Material

Housing	LCP plastic resin (Color : White)
Terminal	SMD Type
Weight (Gram)	0.2

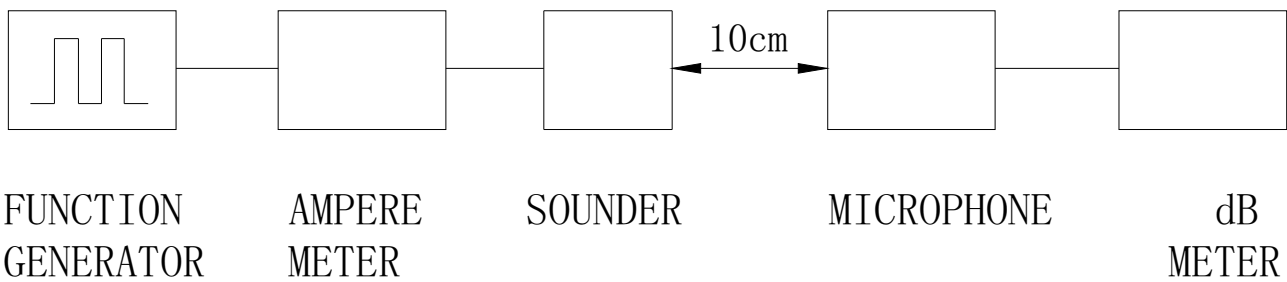
#### 4. TESTING METHOD

- **Standard Measurement conditions**

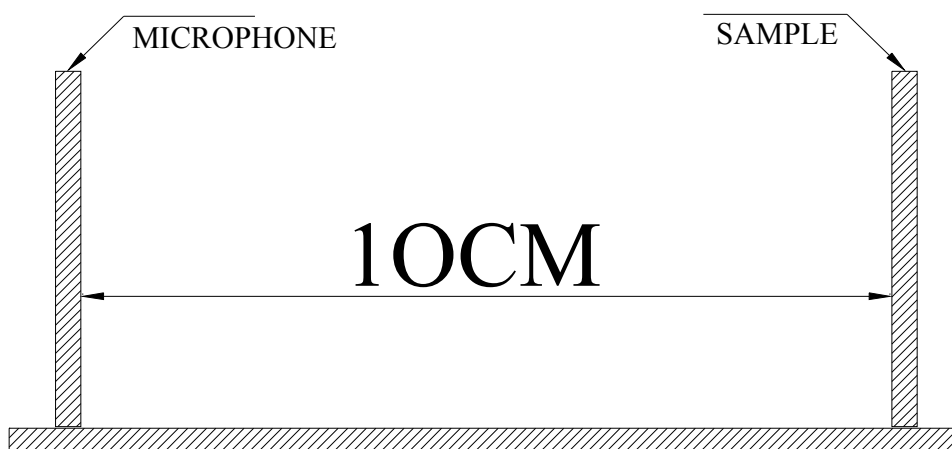
Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-60%

- **Acoustic Characteristics**

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



*In the measuring test, buzzer is placed as follows:*



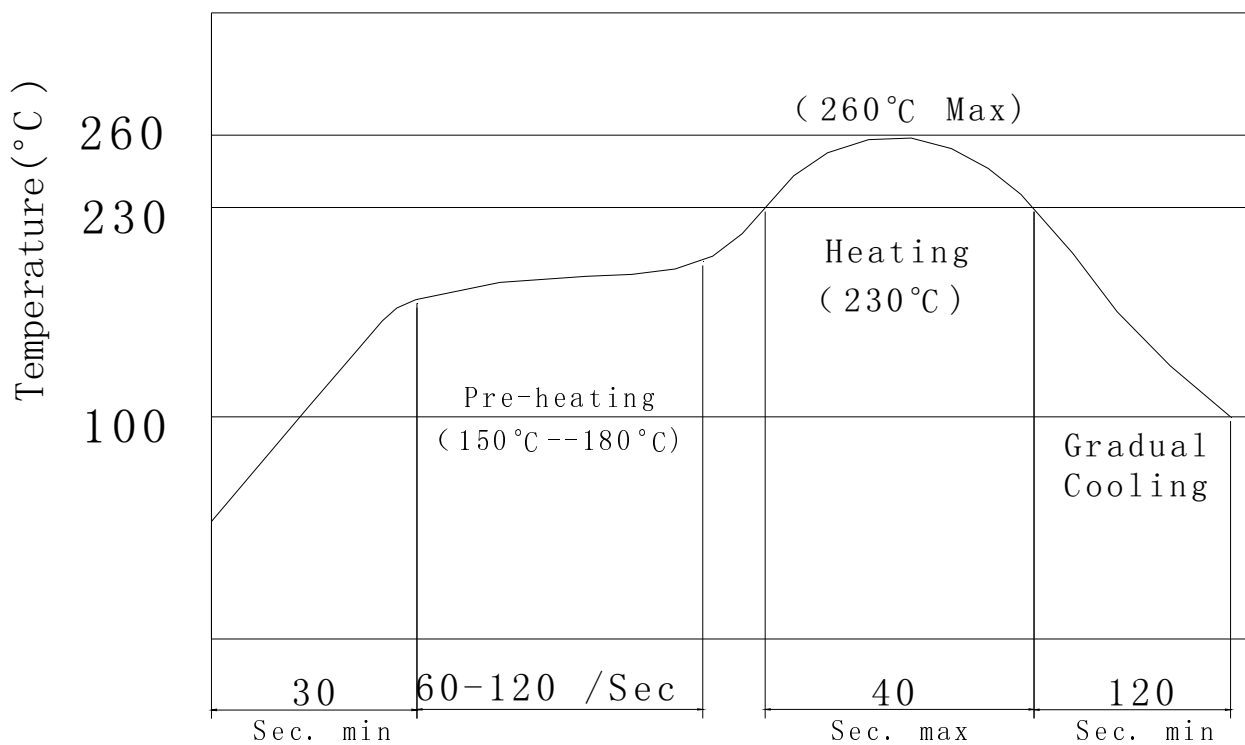
## 5. RELIABILITY

<b>ITEMS</b>	<b>METHOD OF TEST AND MEASUREMENTS</b>	<b>PERFORMANCE</b>
<i>Coldness withstanding</i>	<i>After 98 hours of being exposed to -30 °C environment, should be returned to normal environment for 2 hours, then re-proceed to test.</i>	<i>No abnormality shall exist</i>
<i>Hotness withstanding</i>	<i>After 98 hours of being exposed to +80 °C environment, should be returned to normal environment for 2 hours, then re-proceed to test.</i>	<i>No abnormality shall exist</i>
<i>Humidity withstanding</i>	<i>After 98 hours of being exposed to 40 °C 95%RH environment in actual operation, should be returned to normal environment for 2 hours, then re-proceed to test.</i>	<i>No abnormality shall exist</i>
<i>Durability</i>	<i>Testing after 1,000 hours actual continuous operation.(at standard measurement conditions)</i>	<i>No abnormality shall exist</i>
<i>Drop withstanding</i>	<i>A natural drop from 75cm high down to the ground.</i>	<i>No abnormality shall exist</i>
<i>Vibration withstanding</i>	<i>Vibration of 2,000 cycles per minute, 2mm amplitude, applied in X, Y and Z directions for 30 minutes each.</i>	<i>No abnormality shall exist</i>

## 6.Soldering Condition

(1) *Recommendable reflow soldering condition is as follows  
(Reflow soldering is twice)*

*Note: It is requested that reflow soldering should be executed  
after heat of product goes down to normal.*



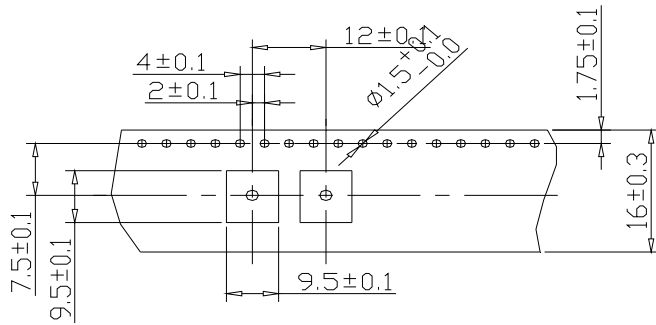
*Heat resistant line*

*(Used when heat resistant reliability test is performed)*

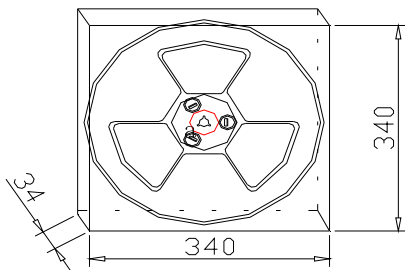
(2) *Manual soldering*

*Manual soldering temperature 350 C within 10 sec.*

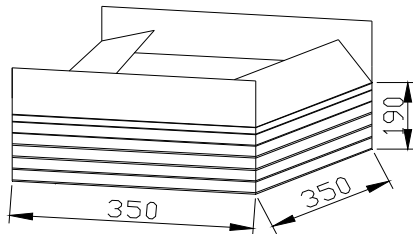
## 7.PACKING:



2000PCS/SP00L 每卷放2000只



1ROLL CARRIER REEL/INNER BOX;1卷放入一内盒



10000PCS/CTN 每箱放10000只(5只内盒)