HYDZ®

MESSRS：

SPECIFICATION FOR APPROVAL

产 品 规 格 书

DESCRIPTION ：SMD BUZZER

PART NO. ：HYG9032CF

USER’S PART NO. ：

DATE ：2013-06-06

CUSTOMER APPROVED ：

Approved By	Checked By	Made By

兴化市华宇电子有限公司

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HYG9032CF

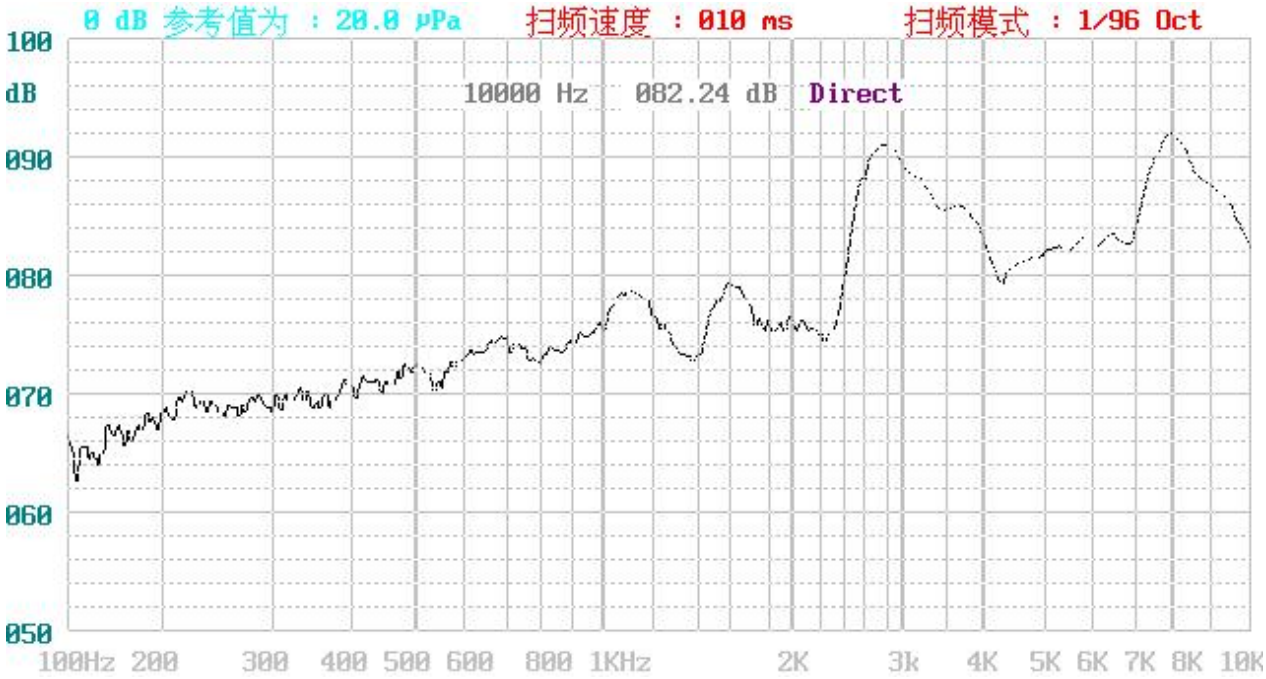
1．Electrical Characteristics

VER .:0

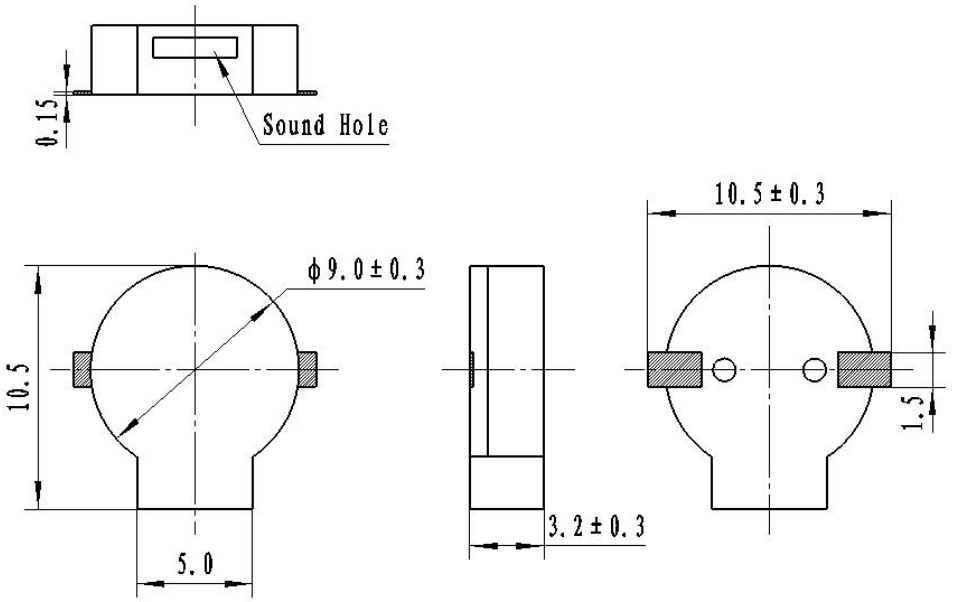
1	Model No.	HYG9032CF
2	Rated Voltage (V)	3
3	Operating Voltage (V)	2～4
4	Coil Resistance (Ω)	16±3
5	Resonant Frequency (Hz)	2700
6	*Sound Output at 10cm (dB)	≥90dB
7	*Current Consumption (mA)	≤60
8	Operating Temperature (℃)	-20～+70
9	Storage Temperature (℃)	-30～+80
10	Weight (g)	0.8
11	Housing Material	LCP
12	RoHS	Yes

*Applying rated voltage (Resonant frequency, 1/2 duty, Square wave)

2．Typical Frequency Response Curve



3．Dimensions and Material

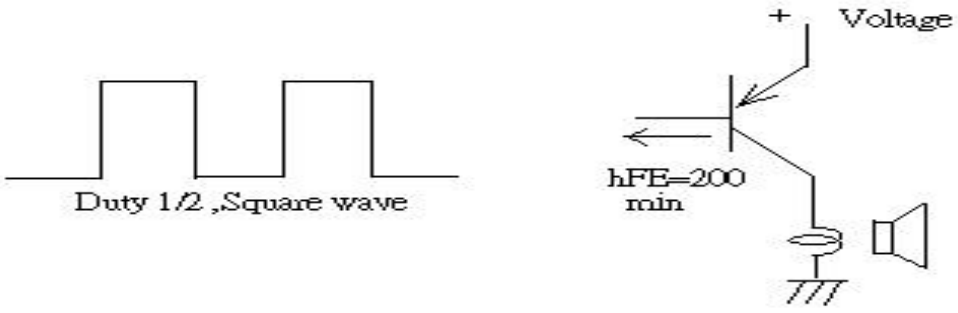


Unit : mm　TOL：±0.3

3-2 Material

Housing	LCP plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	0.6

4．Recommend Driving Circuit



The base current Ib should high enough so that it saturates the collector current of the transistor with the CB load.

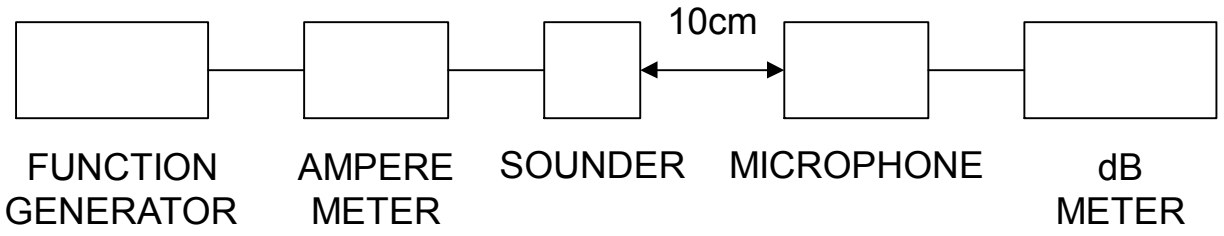
5. TESTING METHOD

· *Standard Measurement conditions*

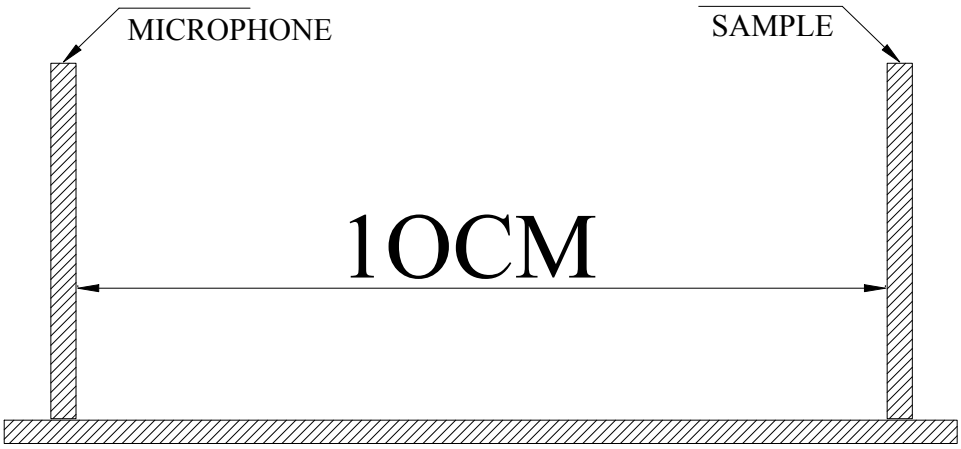
Temperature:25±2℃ Humidity:45-60%

· *Acoustic Characteristics*

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



In the measuring test, buzzers is placed as follows:



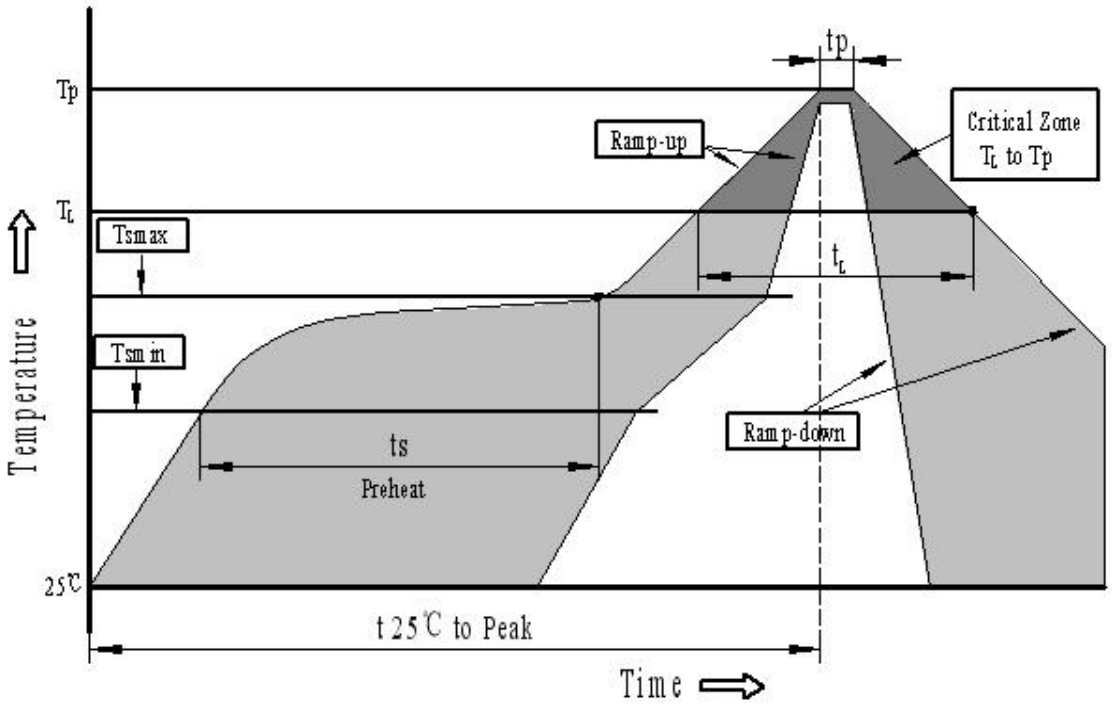
6. RELIABILITY

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

7.Soldering Condition

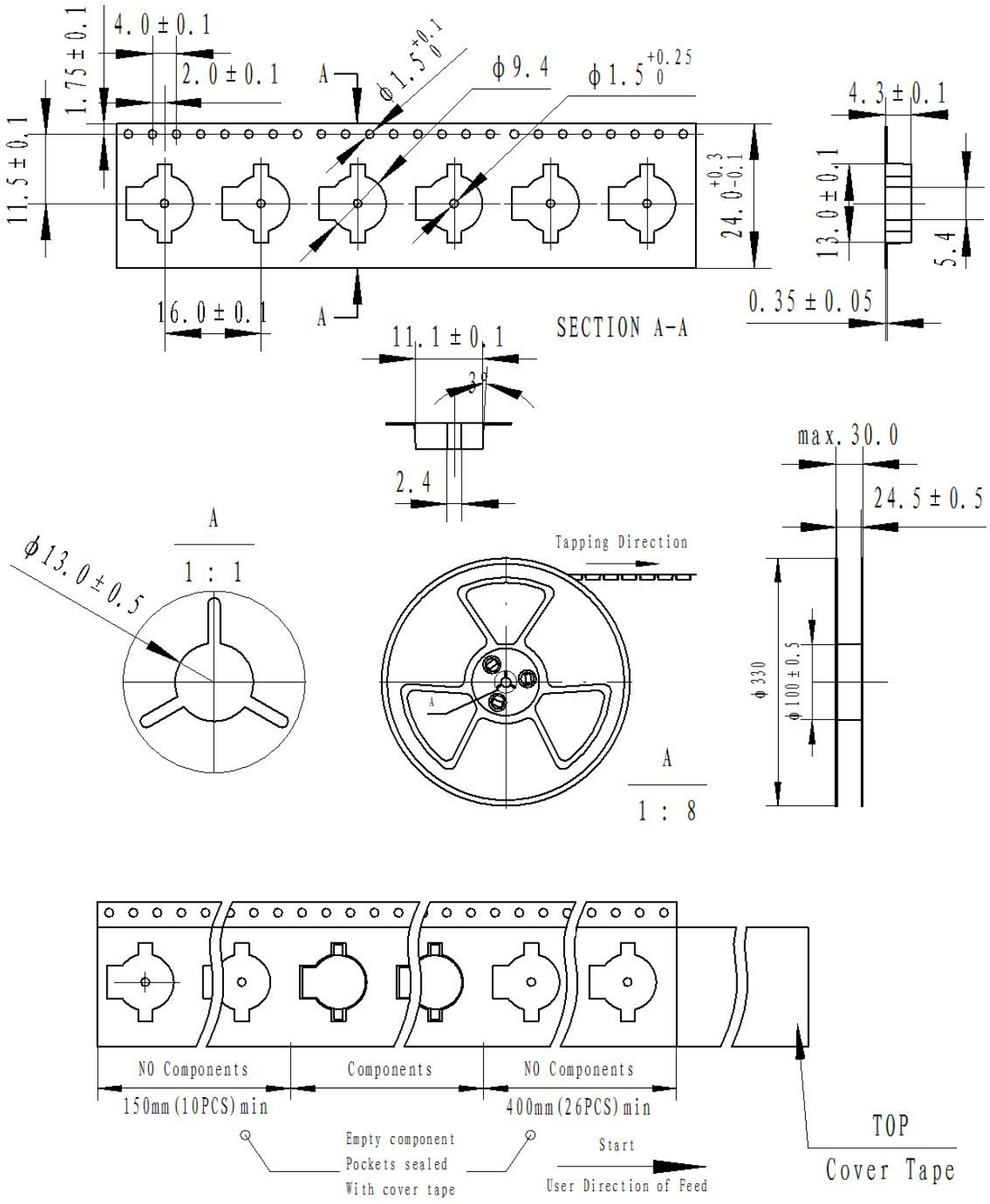
(1)Recommendable reflow soldering condition is as follows
(Reflow soldering is twice)

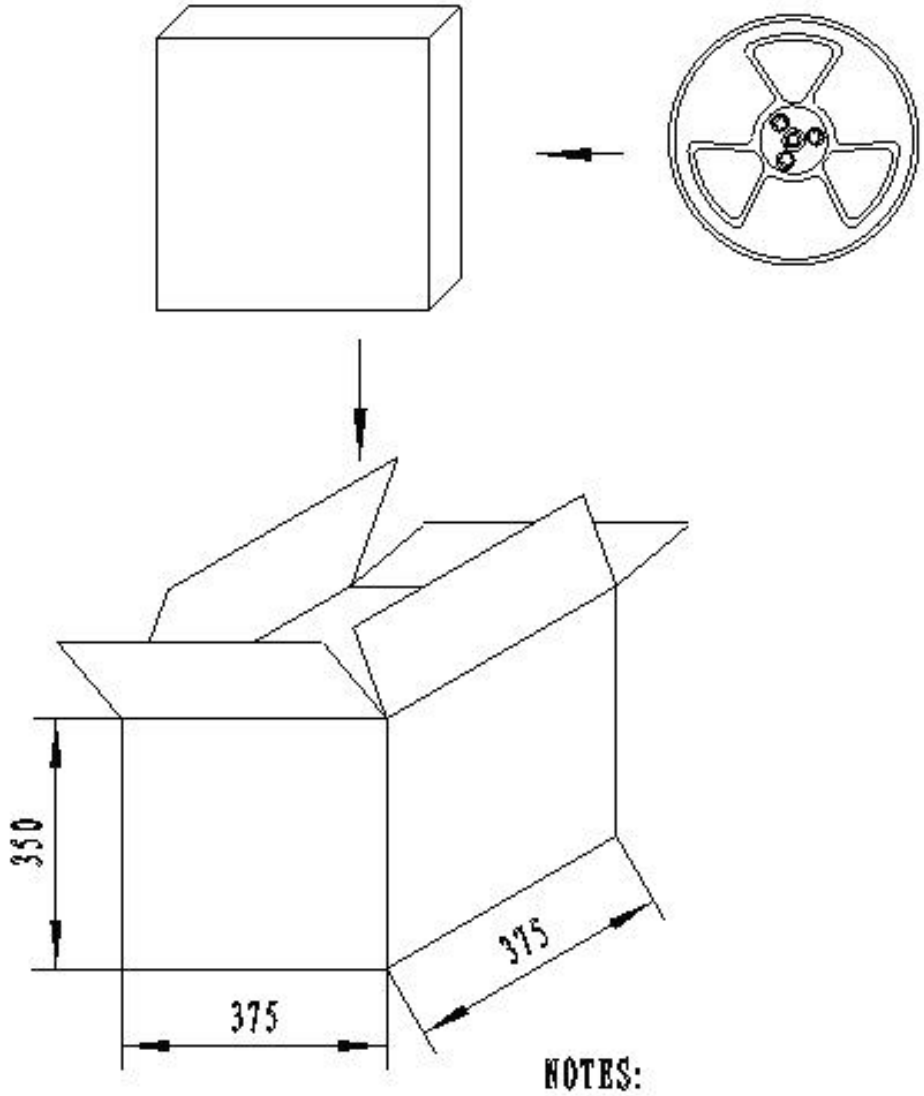
Note:It is requested that reflow soldering should be executed after heat of product goes down to normal.



Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to Tp)	3℃/second max.
Preheat	
-Temperature Min.(Ts_{min})	150℃
-Temperature Min.(Ts_{max})	200℃
-Temperature Min.(ts)	60～180 seconds
Ts_{max} to T_L	
-Ramp-up Rate	3℃/second max.
Time maintained above:	
- Temperature(T_L)	217℃
-Time(T_L)	60～150 seconds
Peak temperature(Tp)	250℃+0/-5℃
Time within 5℃of actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8 minutes max.

8. PACKAGE METHOD





NOTES:

1. 1000 PCS per box
2. Total 10 boxes per carton
3. Total 10000 PCS carton