MESSRS:

SPECIFICATION FOR APPROVAL

产品规格书

DESCRIPTION

: SMD BUZZER

PART NO. : HYG-8503A-3027

USER'S PART NO.

DATE

: 2021-08-22

CUSTOMER APPROVED

Approved By	Checked By	Made By
		吕 玲

兴化市华宇电子有限公司

XINGHUA HUAYU ELECTRONICS CO., LTD

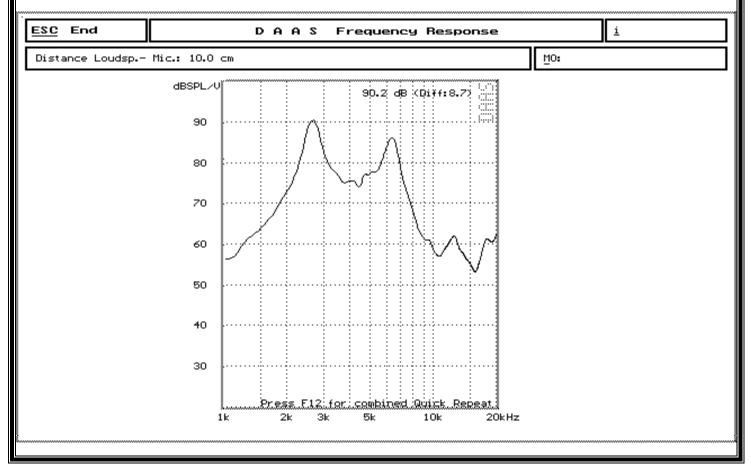
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HYG8503A

Electrical Characteristics	VER .:0	
Oscillation Frequency (Hz)	2700	
Operating Voltage (Vp-p)	$2^{\sim}4$	
Rated Voltage (Vp-p)	3	
Current Consumption (mA/max.)	120 at Rated Voltage	
Sound Pressure Level (dB/min.)	85at 10cm at Rated Voltage	
Coil Resistance (Ω)	16 ±3	
Operating Temperature (°C)	-30 ~ +80	
Storage Temperature (°C)	-30 ~ +85	
Environmental protection rule	ROHS	

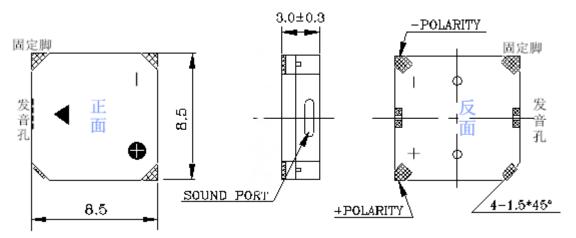
PS : Vp-p = 1/2duty, square wave

2. Typical Frequency Response Curve



3.Dimensions and Material

3-1 Shape

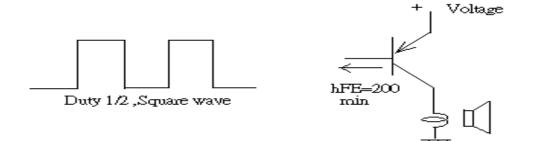


Unit: mm TOL: ± 0.3

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.

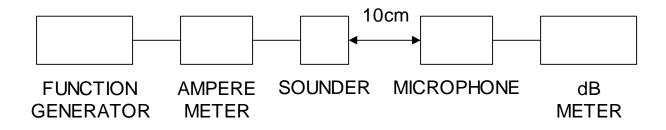
5. TESTING METHOD

- Standard Measurement conditions

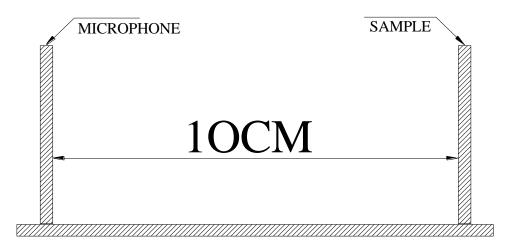
Temperature:25±2℃ Humidity:45-60%

- 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:

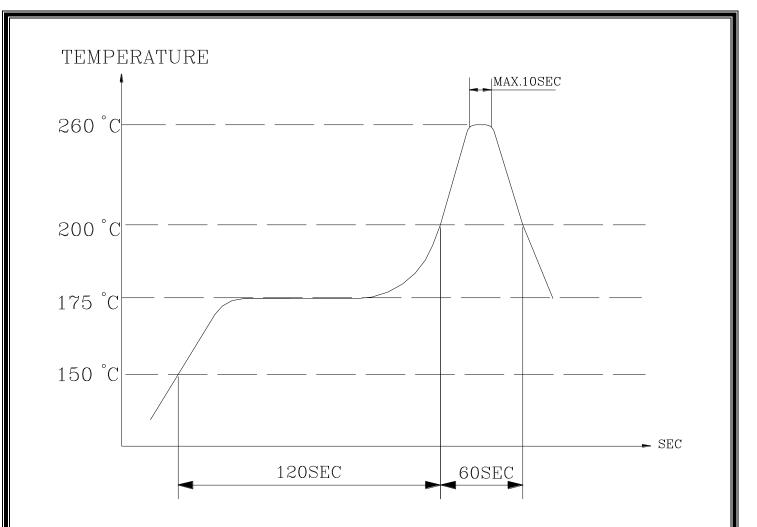


6. RELIABILITY

ITEMS	METHOD OF TEST AND MEASUREMENTS	PERFORMANCE
Coldness	After 98 hours of being exposed to -30 $^{\circ}\!$	No abnormality
withstanding		shall exist
	environment, should be returned to normal	
	environment for 2 hours, then re-proceed to test.	
Hotness	After 98 hours of being exposed to +80 $^{\circ}{ m C}$	No abnormality
withstanding	Aller 50 Hours of being exposed to 400 C	shall exist
	environment, should be returned to normal	
	environment for 2 hours, then re-proceed to test.	
Humidity	After 09 beyrs of being expand to 40° 05% PU	No abnormality
withstanding	After 98 hours of being exposed to 40 $^{\circ}\!$	shall exist
	environment in actual operation, should be	
	returned to normal environment for 2 hours, then	
	re-proceed to test.	
Durability	Testing after 1,000 hours actual continuous	No abnormality
	operation. (at standard measurement conditions)	shall exist
Drop	A natural drop from 75cm high down to the	No abnormality
withstanding	ground.	shall exist
Vibration	Vibration of 2,000 cycles per minute, 2mm	No abnormality
withstanding	amplitude, applied in X, Y and Z directions for 30	shall exist
	minutes each.	

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.



Heat resistant line

(Used when heat resistant reliablity test is performed)

(2) Manual soldering

Manual soldering temperature 350 $^\circ\!\mathrm{C}$ within 10 sec.

