



HYDZ<sup>®</sup> MESSRS:

## SPECIFICATION FOR APPROVAL

### 产 品 规 格 书

DESCRIPTION : SMD BUZZER  
PART NO. : HYG9040A  
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**

**XINGHUA HUAYU ELECTRONICS CO., LTD**

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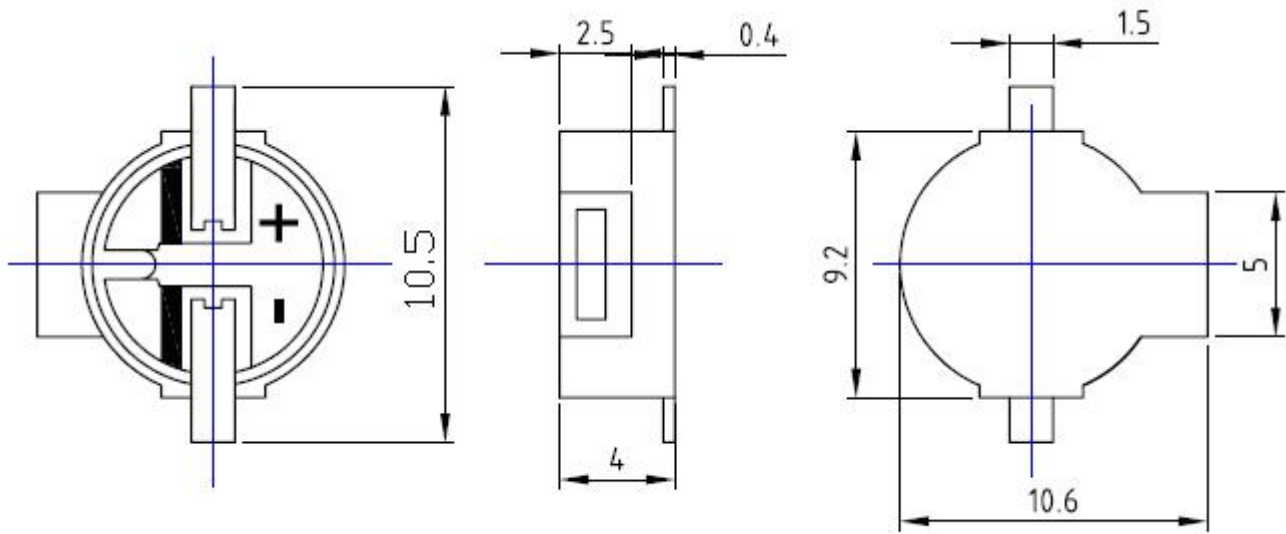
产品型号

HYG9040A

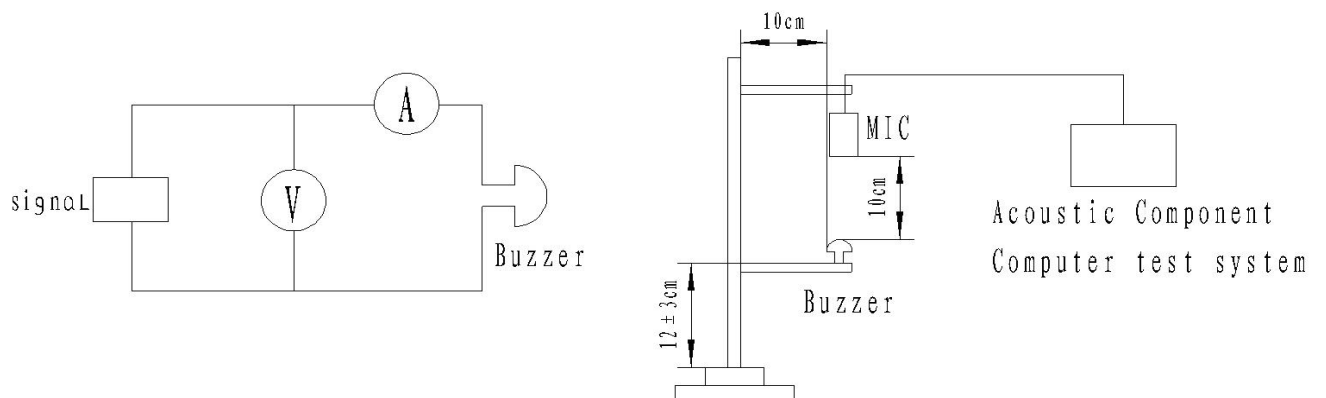
**SPECIFICATION**

1	Rated Voltage (Vo-p)	3.6
2	Operating Voltage(Vo-p)	2~5
3	Coil Resistance ( $\Omega$ )	16 $\pm$ 3
4	Resonant Frequency (Hz)	2730
5	Sound Output at 10cm (dB)	$\geq$ 85
6	Current Consumption (mA)	$\leq$ 100
7	Operating Temperature ( $^{\circ}$ C)	-20~+85
8	Storage Temperature ( $^{\circ}$ C)	-30~+90

**DIMENSIONS:** Unit: mm ( $\pm$ 0.3) 金脚



**TEST METHOD:**



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**RELIABLY TEST:**

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp.	The part shall be capable of withstanding a storage temperature is +85°C for 96 hours	After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value ± 10dB or more.
2	Low temp.	The part shall be capable of withstanding a storage temperature is -40°C for 96 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -40±2°C, 30 minutes 20±5°C 15 minutes 85±2°C, 30 minutes 20±5°C 15 minutes	
4	Humidity Test	40±2°C, 90~95% RH, 96 hours	
5	Vibration Test	The part shall be subjected to a vibration cycle is 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3g). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	
6	Shock	Sounder shall be measured after being applied shock for each three mutually perpendicular directions to each of 3 times by half sine wave.	
7	Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions-upper and side of the part are to be applied.	

**Remark:** ★ T.R. Instance Soldering Process

Buzzer Soldering process			Soldering Parameter		
			Temp.(°C)	Time(Sec.)	Times
Inclusive Lead		Wave soldering	245±5	3~6	1~2
		Manual soldering	330±10	1~2	1~2
Lead Free		Wave soldering	260±5	4~8	2~3
	★	Manual soldering	350±10	1~3	2~3

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**SAMPLE TEST REPORT:**

SPE.	SPL(dB)	Res( $\Omega$ )	I(mA)	Important Dimensions:mm			
	$\geq 85$	$16 \pm 3$	$\leq 100$	$9.2 \pm 0.3$	$4.0 \pm 0.3$		
1	90		65.3	9.06	4.01		
2	90		65.2	9.11	4.03		
3	91		66.4	9.02	4.05		
4	90		65.3	9.08	4.03		
5	91		65.2	9.11	4.12		
6	90		65.3	9.03	4.08		
7	91		65.6	9.11	4.08		
8	92		65.2	9.02	4.08		
9	90		65.0	9.02	4.12		
10	92		65.5	9.03	4.05		
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
AVE.	90.6		65.5	9.05	4.05		
MAX.	92.0		66.4	9.11	4.12		
MIN.	90.0		65.0	9.02	4.01		
Remark:							
Conclusion:	Pass( <input checked="" type="checkbox"/> )			Fail( <input type="checkbox"/> )			