

MESSRS :

SPECIFICATION FOR APPROVAL

产 品 规 格 书

DESCRIPTION : SMD BUZZER
PART NO. : HYG5020A
USER' S PART NO. :
DATE : 2013-06-06
CUSTOMER APPROVED :

Approved By	Checked By	Made By



HYDZ[®]

兴化市华宇电子有限公司

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PART . NO.

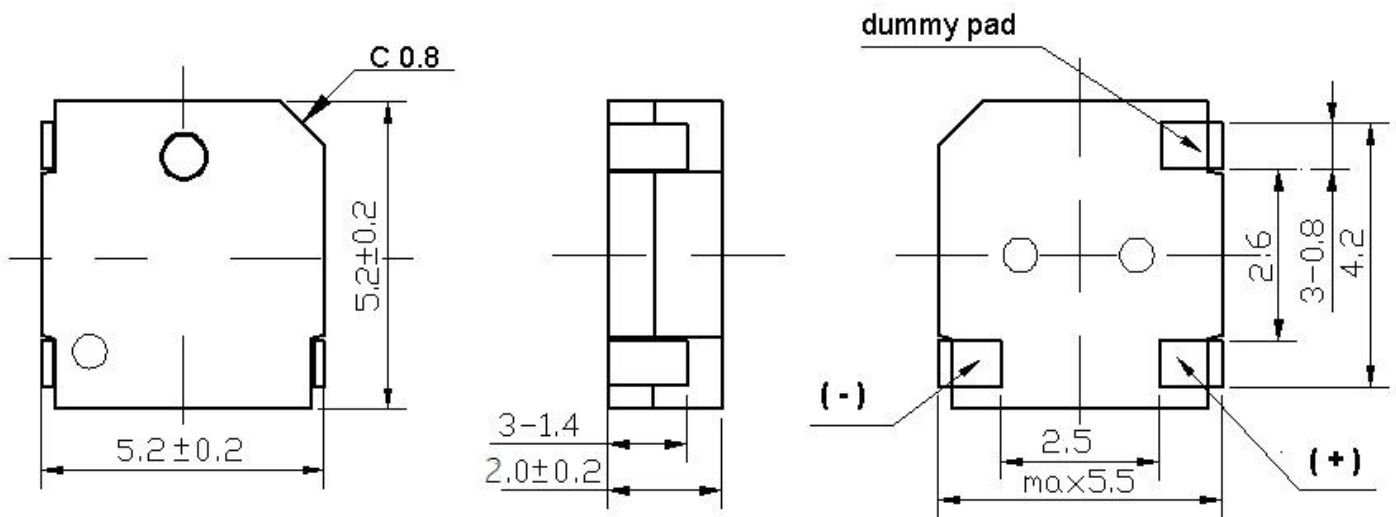
产品型号

HYG5020A

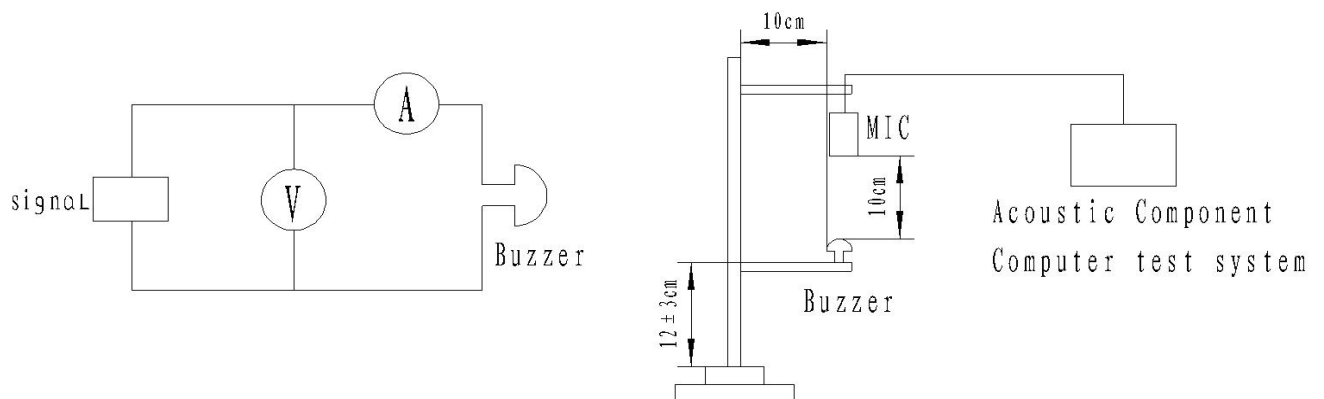
SPECIFICATION

1	Rated Voltage (Vo-p)	3.0
2	Operating Voltage(Vo-p)	2.0~4.5
3	Coil Resistance (Ω)	11 \pm 3
4	Resonant Frequency (Hz)	4000
5	Sound Output at 10cm (dB)	\geq 75
6	Current Consumption (mA)	\leq 110
7	Operating Temperature ($^{\circ}$ C)	-30~+70
8	Storage Temperature ($^{\circ}$ C)	-40~+85

DIMENSIONS: Unit: mm (\pm 0.3)



TEST METHOD:



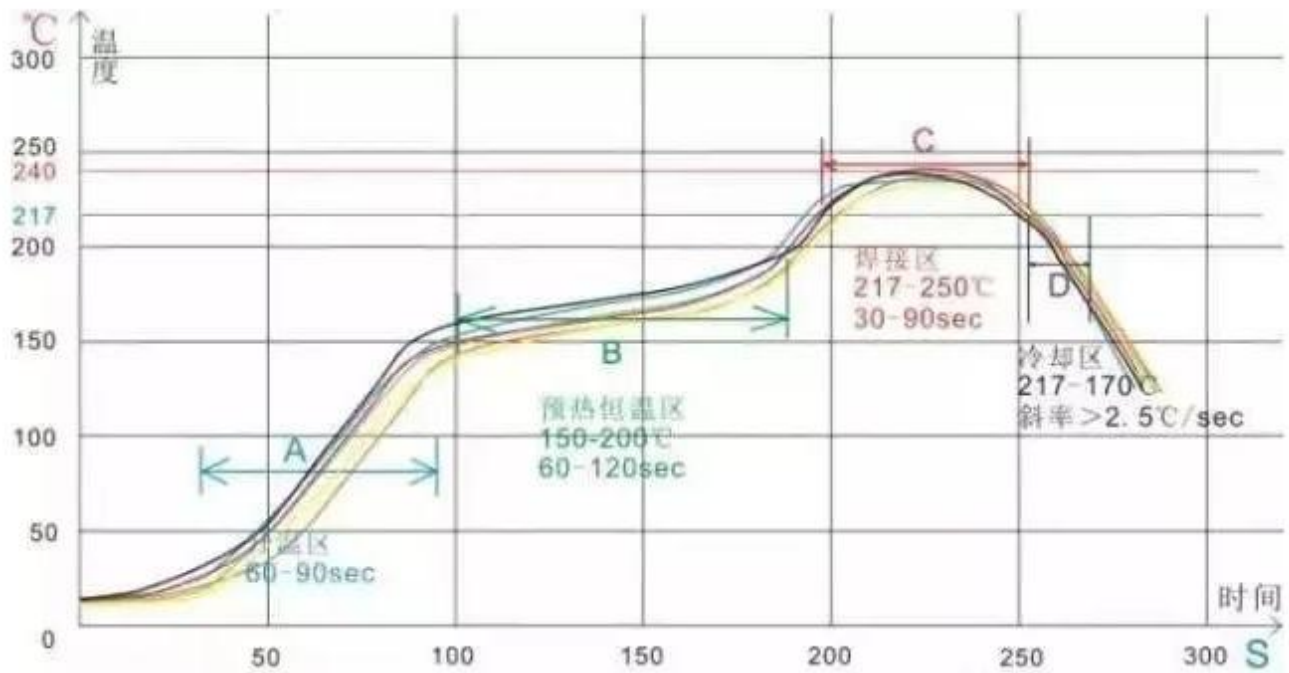
承认书

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 ± 10 dB 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 \pm 2°C, 30 minutes 20 \pm 5°C 15 minutes 85 \pm 2°C, 30 minutes 20 \pm 5°C 15 minutes	
4	Humidity Test	40 \pm 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:

最常用的无铅锡膏Sn96.5Ag3.0Cu0.5锡银铜合金为例，介绍理想的回流焊温度曲线设定方案和分析其原理。如图一：



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SAMPLE TEST REPORT:

SPE.	SPL(dB)	Res(Ω)	I(mA)	Important Dimensions:mm			
	≥ 75	12 \pm 3	≤ 110	5.2 \pm 0.2	3.0 \pm 0.3		
1	83	11.5	75.3	5.16	3.01		
2	83	11.6	75.2	5.11	3.03		
3	81	11.4	76.4	5.22	3.05		
4	80	11.6	75.3	5.18	3.03		
5	81	11.0	75.2	5.11	3.12		
6	80	11.8	75.3	5.13	3.08		
7	81	11.6	75.6	5.11	3.08		
8	82	11.0	75.2	5.12	3.08		
9	80	11.5	75.0	5.12	3.12		
10	82	11.4	75.5	5.13	3.05		
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
AVE.	81.5	11.3	75.5	5.15	3.05		
MAX.	83.0	11.6	76.4	5.22	3.12		
MIN.	80.0	11.0	75.0	5.11	3.01		
Remark:							
Conclusion:	Pass(<input checked="" type="checkbox"/>)			Fail(<input type="checkbox"/>)			