



深圳市兴华鑫电子科技有限公司

Shenzhen xinghuaxin Electronic Technology Co., Ltd

承認書

SPECIFICATION FOR APPROVAL

客戶 (Customer):

客戶料號 (Customer P/N):

興華鑫型號 (Supplier P/N):

XHxDZ-5020

產品名稱 (Description):

蜂鸣器 (Buzzer)

產品規格 (Specification):

SMD-5.0*5.0*2.0MM

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
	唐国兴	唐玉来	吴银娟
	日期: 2022 年 04 月 19 日 版次: A		

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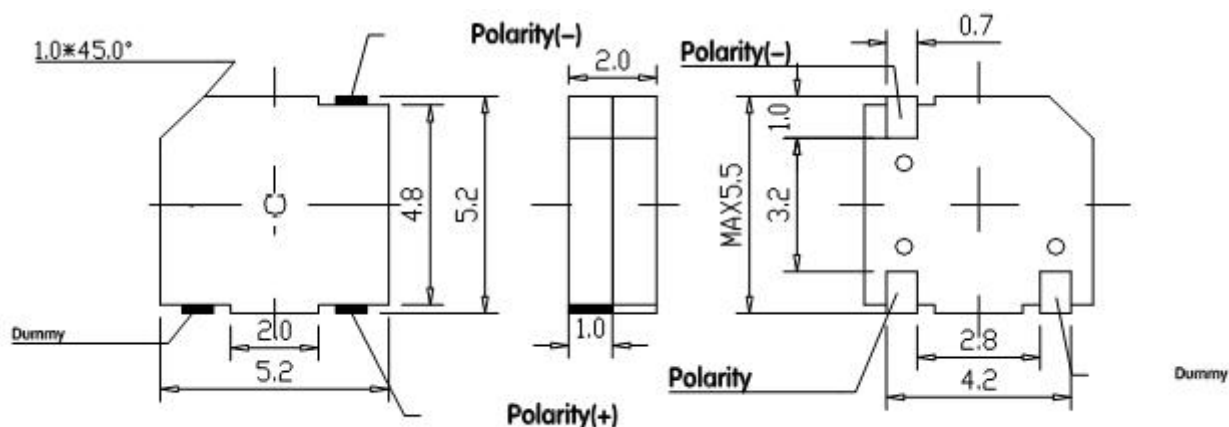
1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage	VAC	3.0
1-2	Coil Resistance	Ω	12±3
1-3	* Rated Current （Max）	mA	100
1-4	* Min Sound Output at 10cm	dB	75
1-5	* Resonant Frequency	Hz	4000
1-6	Operating Temperature	℃	-20~+70
1-7	Storage Temperature	℃	-40~+85
1-8	Operating Voltage	VAC	2~4
1-9	Housing Material	LCP	
1-10	Lead Pin Material	Red Copper （DAU）	
1-11	*此产品使用电压 3.6V		

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

2. DIENSIONS (UNIT: mm)

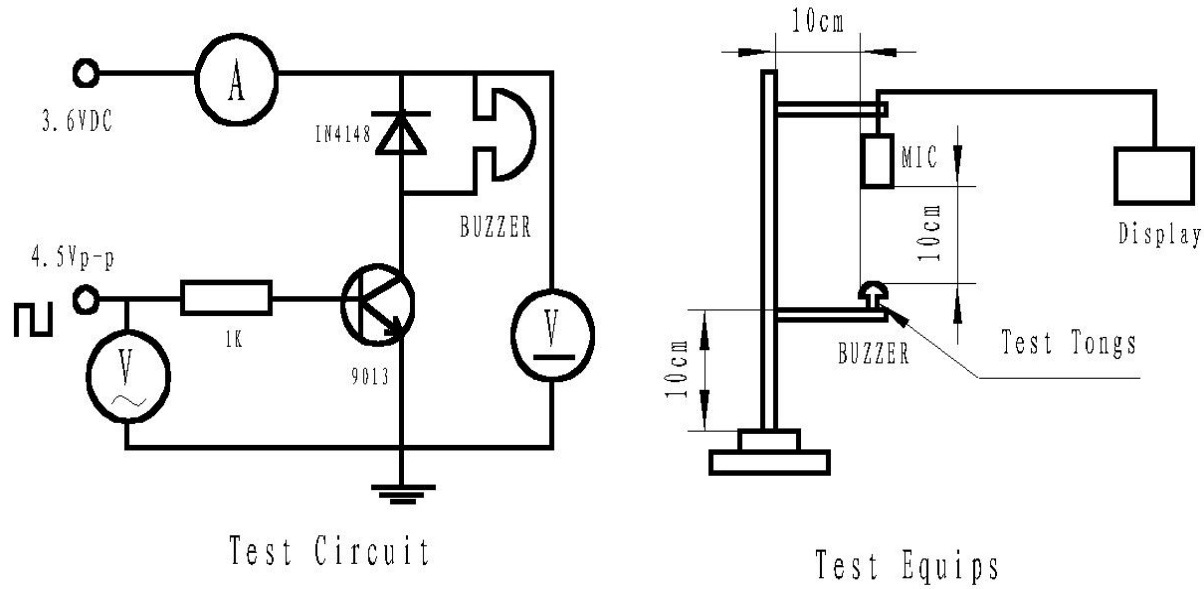
Tolerance: $\pm 0.5\text{mm}$ Except Specified



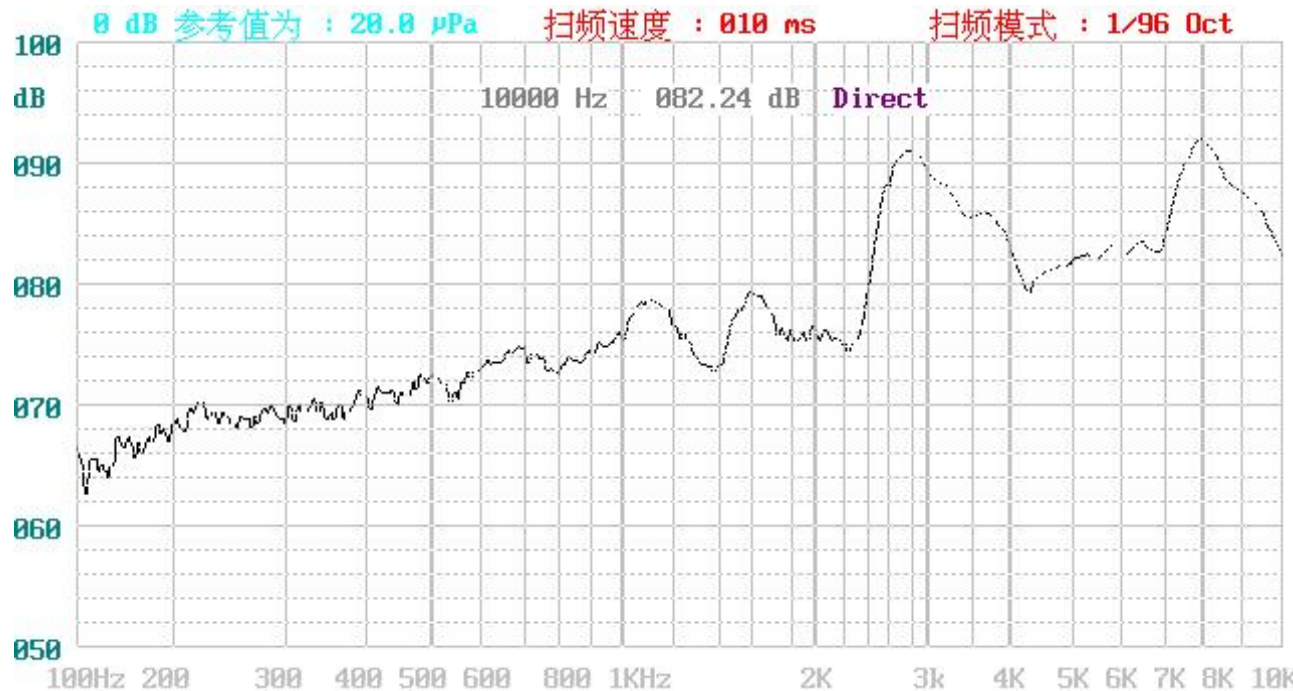
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3. TEST METHOD:



4. FREQUENCY RESPONSE:



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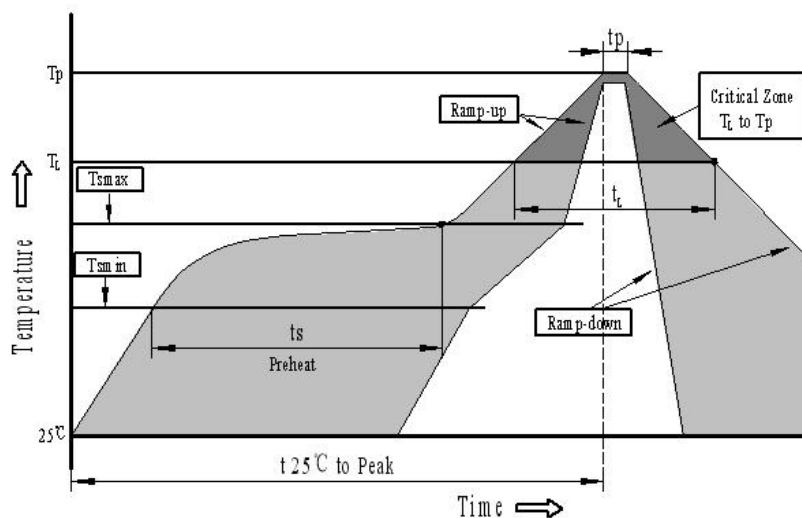
5. ENVIRONMENTAL TEST

	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
2-1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +80℃ for 120 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.
2-2	Low temp. storage life	The part shall be capable of withstanding a storage temperature is -30℃ for 120 hours	
2-3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -30±2℃, 30 minutes 20±5℃ 15 minutes 80±2℃, 30 minutes 20±5℃ 15 minutes	
2-4	Humidity Test	30±2℃, 90～95% RH, 120 hours	
2-5	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.	
2-6	Shock	Sounder shall be measured after being applied shock (980m/s²) for each three mutually perpendicular directions to each of 3 times by half sine wave.	
2-7	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.	

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	Lead pull	The part shall be pushed with a force of 9.8N for 10±1 seconds behind the part. 	After the test part shall meet specifications without any degradation in appearance and performance.
	Recommended temp. Profile for Reflow Oven	Shown in Fig.1	
Warranty: For a period of one year from date of manufacture under normal operations.			

1. Recommended Temp. Profile for Reflow Oven (Fig.1)



Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to T_p)	3°C/second max.
Preheat	
-Temperature Min. (T_{smin})	150°C
-Temperature Min. (T_{smax})	200°C
-Temperature Min. (t_s)	60~180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature (T_L)	217°C
-Time (T_L)	60~150 seconds

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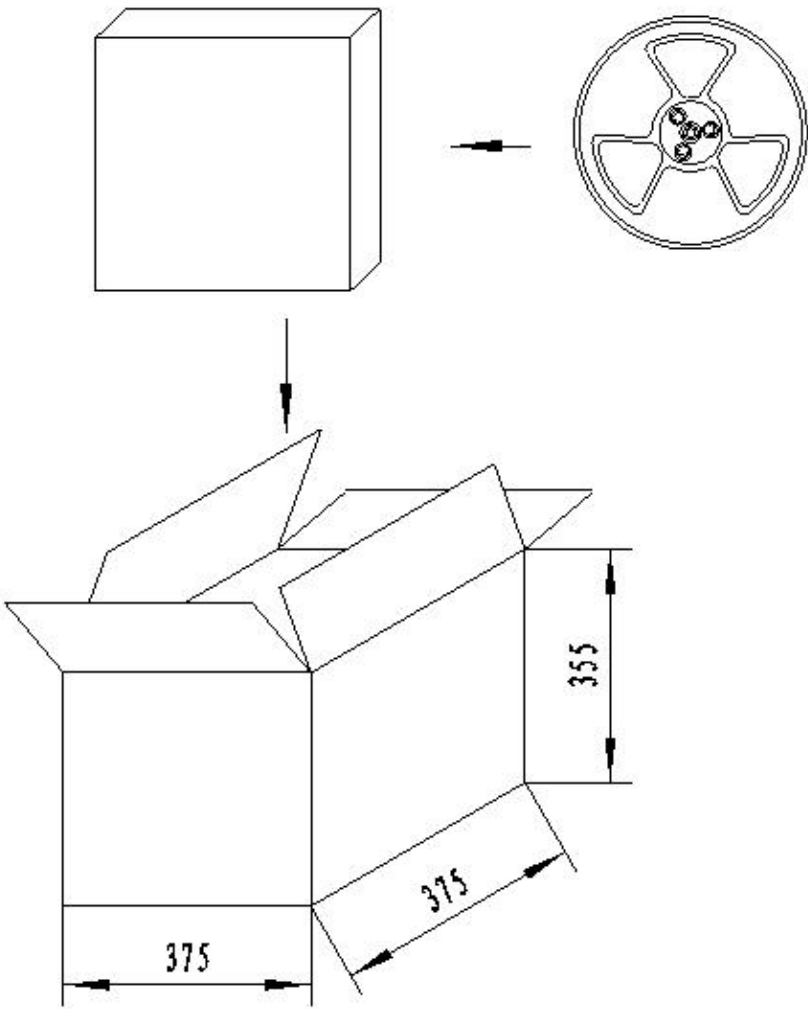
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7. PACKING



NOTES:

- 1.2500 PCS per box
- 2.Total 10 boxes per carton
- 3.Total 25000 PCS carton

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