



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-9018

產品名稱 (Description):

蜂鸣器 (Buzzer)

產品規格 (Specification):

SMD-9.0*9.0*1.8MM

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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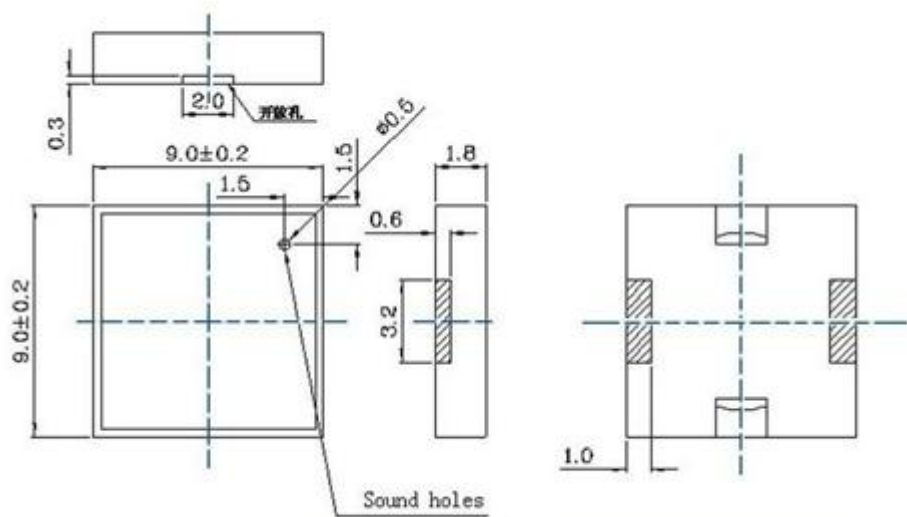
E-mail: xhxdzsound@163.com

Http: www.jsxhxdz.com

1. SPECIFICATION 规格

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	square wave
2	Operating Voltage	Vp-p	1 ~ 25	
3	Rated Voltage	Vp-p	3	
4	Current Consumption	mA	MAX. 5	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 65	at 10cm at Rated Voltage
6	Electrostatic Capacity	pF	12000±30%	at 100Hz 1V
7	Operating Temperature	℃	-30 ~ +70	
8	Storage Temperature	℃	-40 ~ +80	
9	Dimension	mm	9x 9xH 1.8	See appearance drawing
10	Weight (MAX)	gram	0.4	
11	Housing Material		LCP(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

2. APPEARANCE DRAWING 尺寸图



Tol:± 0.3 Unit:mm

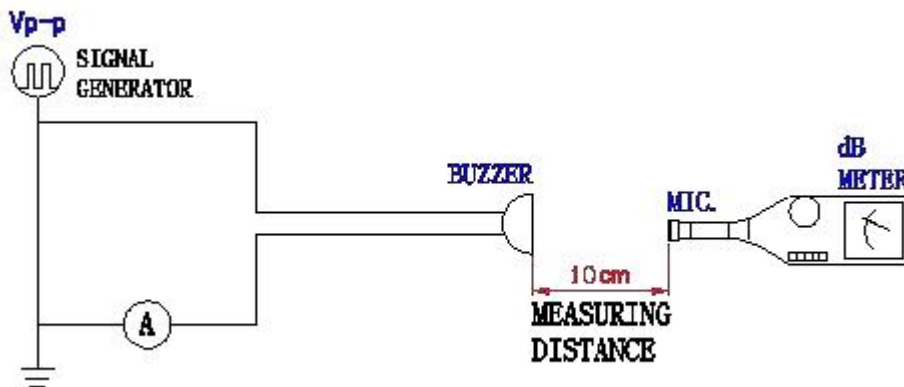
3. TESTING METHOD 测量方式

Standard Measurement conditions

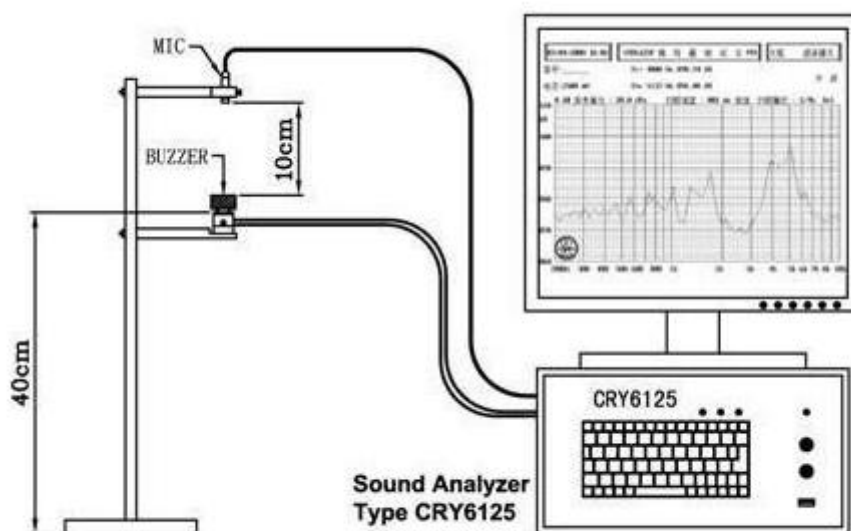
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

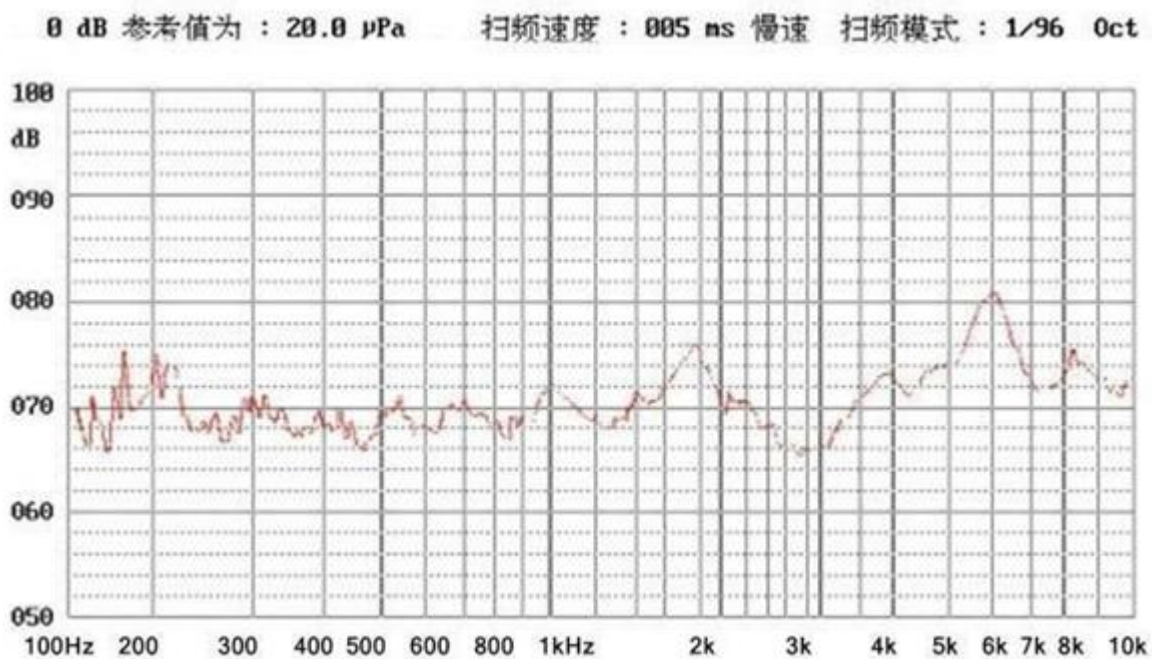
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below.



In the measuring test, buzzer is placed as follows:



4. Typical Frequency Response Curve

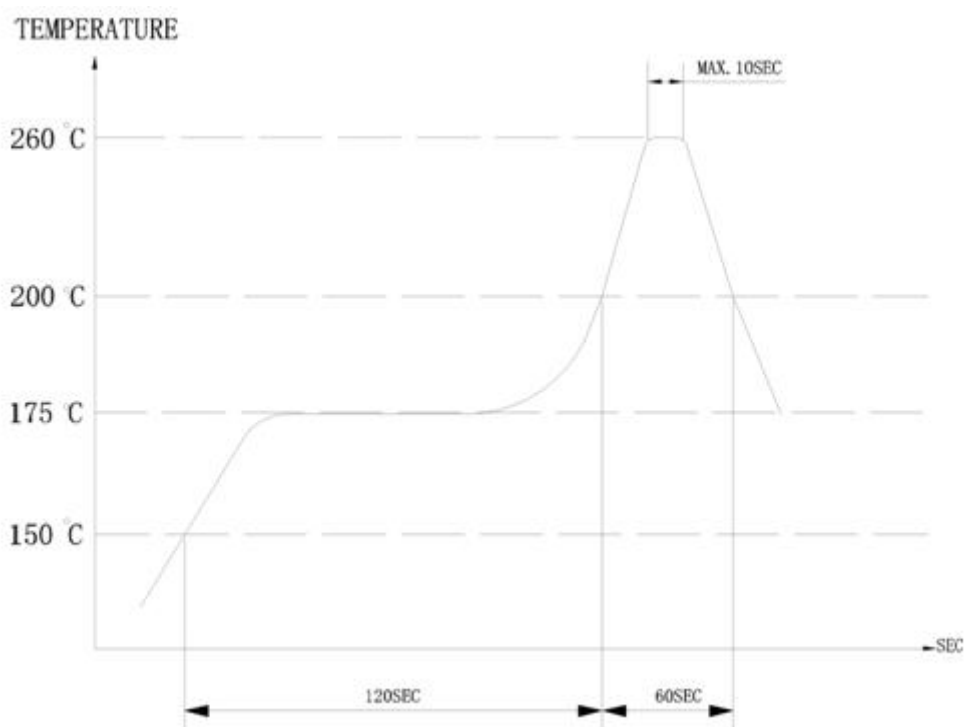


5. Soldering Condition

(1) Recommendable reflow soldering condition is as follows

(Reflow soldering is twice)

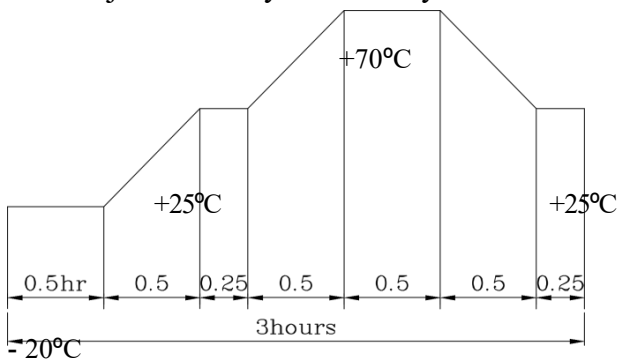
Note: It is requested that reflow soldering should be executed after heat of product goes down to normal.



Heat resistant line (Used when heat resistant reliability test is performed) (2) Manual soldering

Manual soldering temperature 350 °C within 5 sec

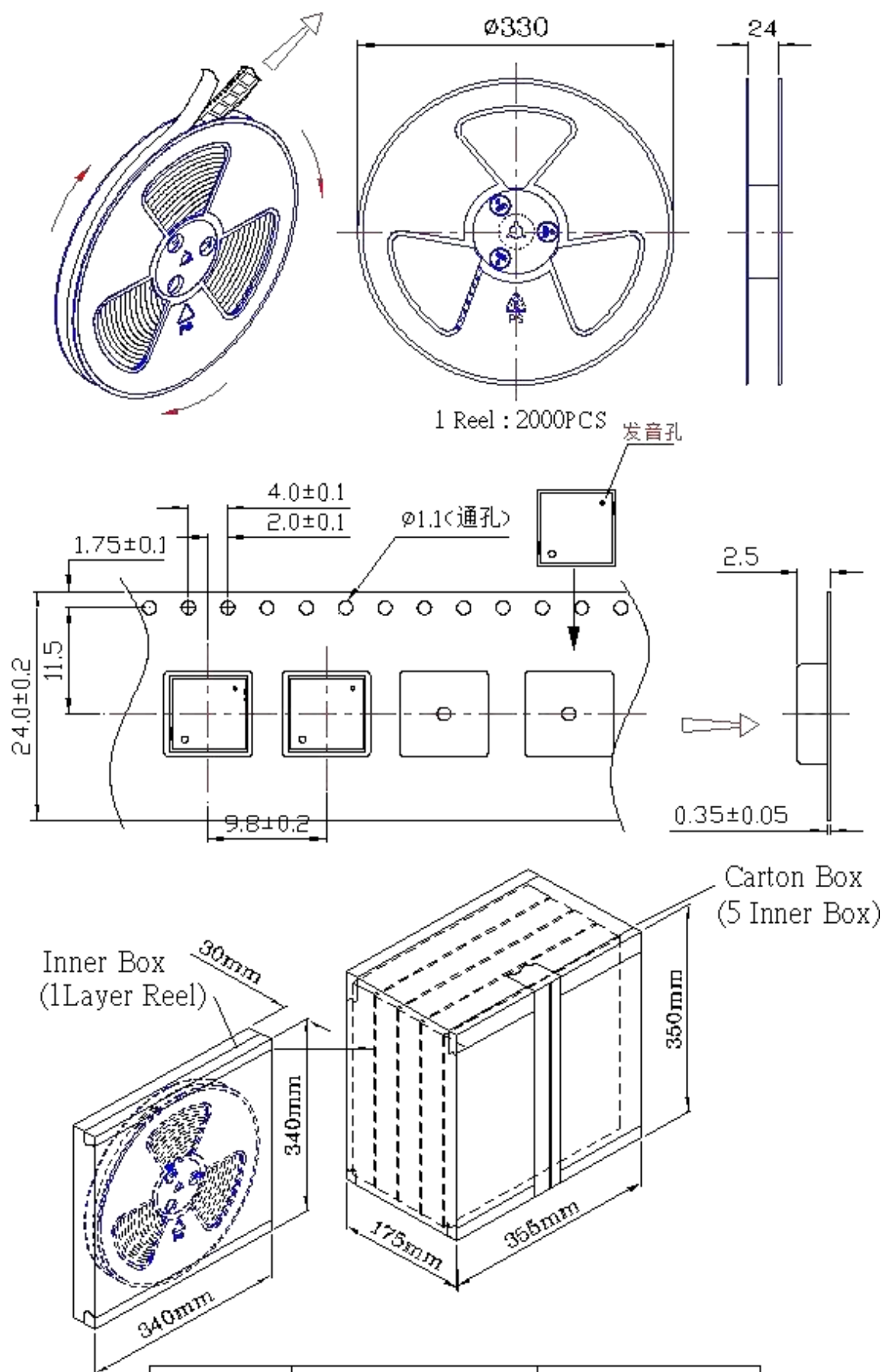
6. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with $80 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
2	Low Temperature Test (Storage)	After being placed in a chamber with $-30 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
3	Humidity Test	After being placed in a chamber with 90-95% R.H. at $40 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall consist of:  Allowable variation of SPL after test: 10dB
5	Drop Test	Drop on a hardwood board of 4cm thick, any directions, 6 times, at the height of 75cm. Allowable variation of SPL after test: 10dB.
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours. Allowable variation of SPL after test: 10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300 \pm 5^{\circ}\text{C}$ for 31 seconds. 90% min. lead terminal shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N (1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

TEST CONDITION.

Standard Test Condition	:	a) Temperature: $+5 \sim +35^{\circ}\text{C}$	b) Humidity: 45-85%	c) Pressure: 860-1060mbar
Judgment Test Condition	:	a) 温度: $+5 \sim +35^{\circ}\text{C}$	b) 湿度: 45-85%	c) 气压: 860-1060mbar
	:	a) Temperature: $+25 \pm 2^{\circ}\text{C}$	b) Humidity: 60-70%	c) Pressure: 860-1060mbar
	:	a) 温度: $+25 \pm 2^{\circ}\text{C}$	b) 湿度: 60-70%	c) 气压: 860-1060mbar

7. PACKING STANDARD



Inner Box	340mmx340mmx30mm	1x200PCS=200PCS
Carton Box	350mmx355mmx175mm	5x200PCS=10,000PCS