



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):

SMD9045-16 Ω

產品名稱 (Description):

蜂鸣器 (Buzzer)

產品規格 (Specification):

SMD-9.0*4.5MM 2.7KHZ

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
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	日期: 2022 年 04 月 19 日 版次: A		

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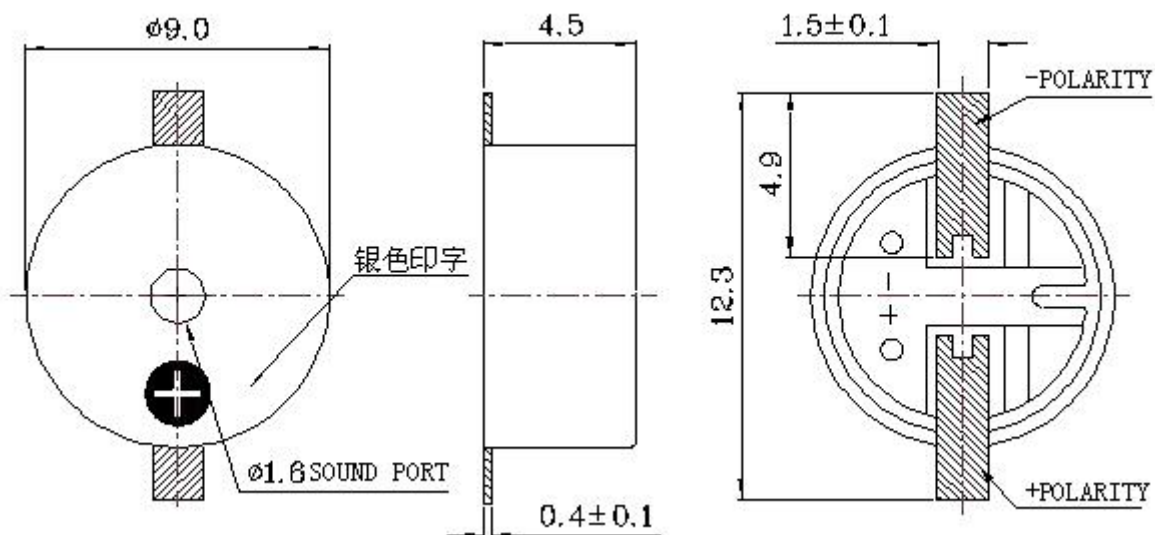
E-mail: jacky.tang@jsxhxdz.com

Http: www.jsxhxdz.com

1.基本规格/General specification

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2700	Vo-p=1/2duty ,square wave
2	Operating Voltage	Vo-p	2 ~ 4	
3	Rated Voltage	Vo-p	3	
4	Current Consumption	mA	MAX. 80	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Coil Resistance	Ω	16 $\pm$ 3	
7	Operating Temperature	$^{\circ}\text{C}$	-20 ~ +70	
8	Storage Temperature	$^{\circ}\text{C}$	-30 ~ +80	
9	Dimension	mm	9 xH4.5	See appearance drawing
10	Weight (MAX)	gram	0.8	
11	Housing Material		LCP(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

2.尺寸图Dimension



3.TESTING METHOD 测量方式

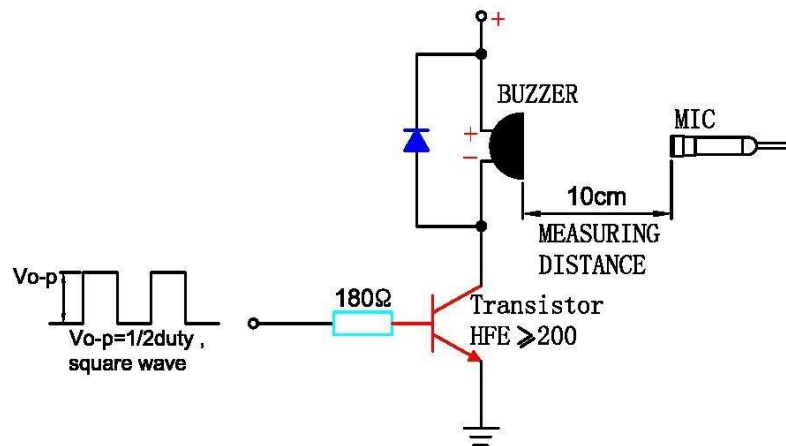
Standard Measurement conditions

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

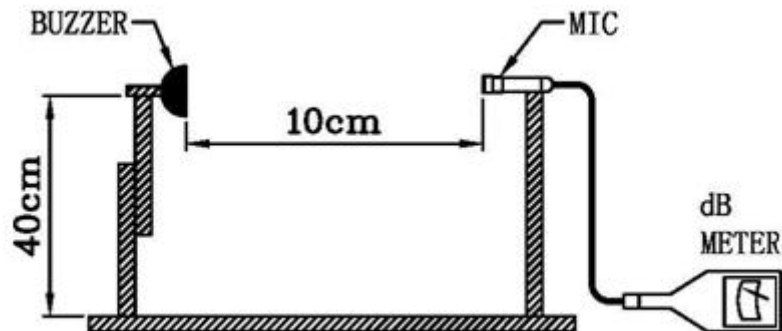
Acoustic

Characteristics:

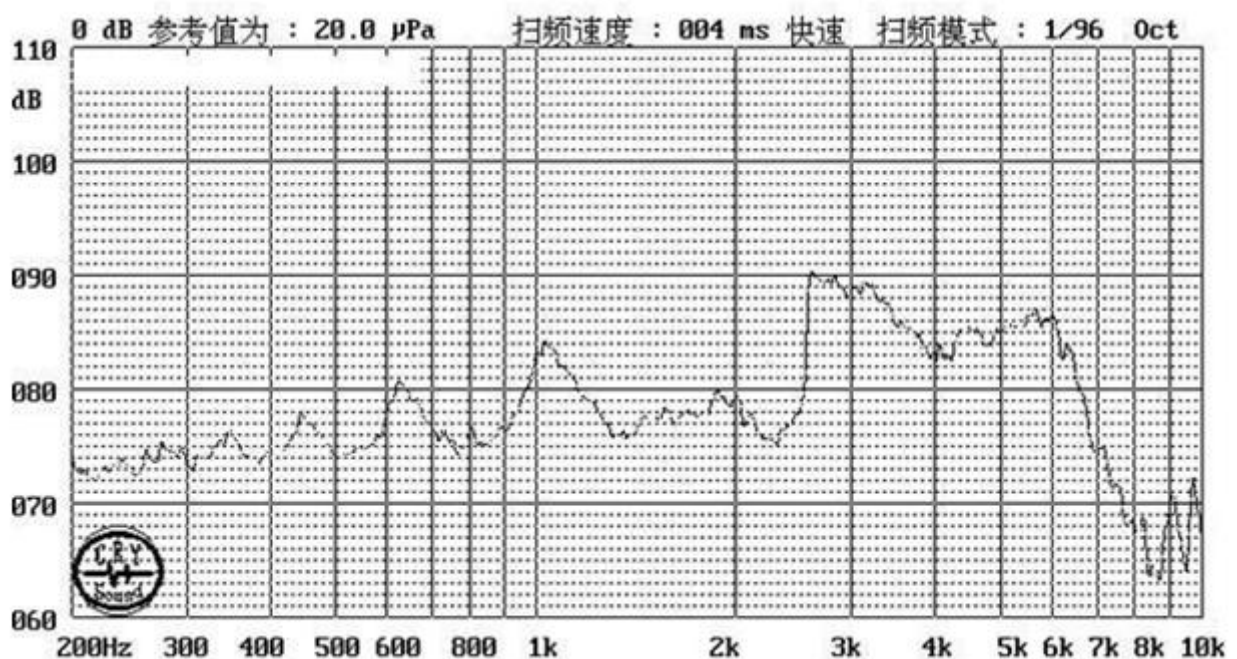
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



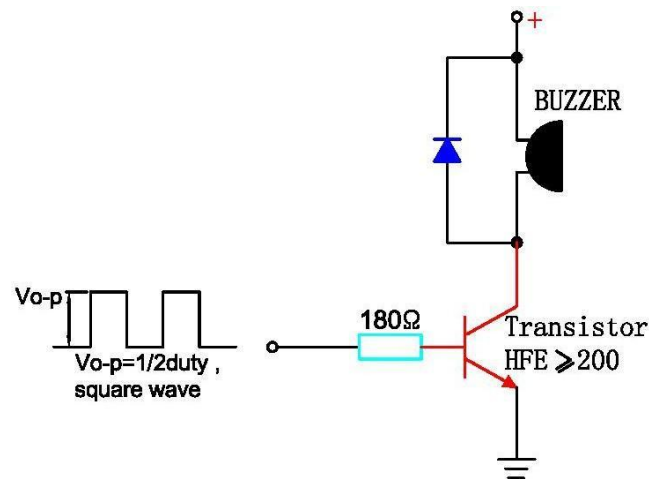
In the measuring test, buzzer is placed as follows:



4. Typical Frequency Response Curve 频率



5. Recommend Driving Circuit



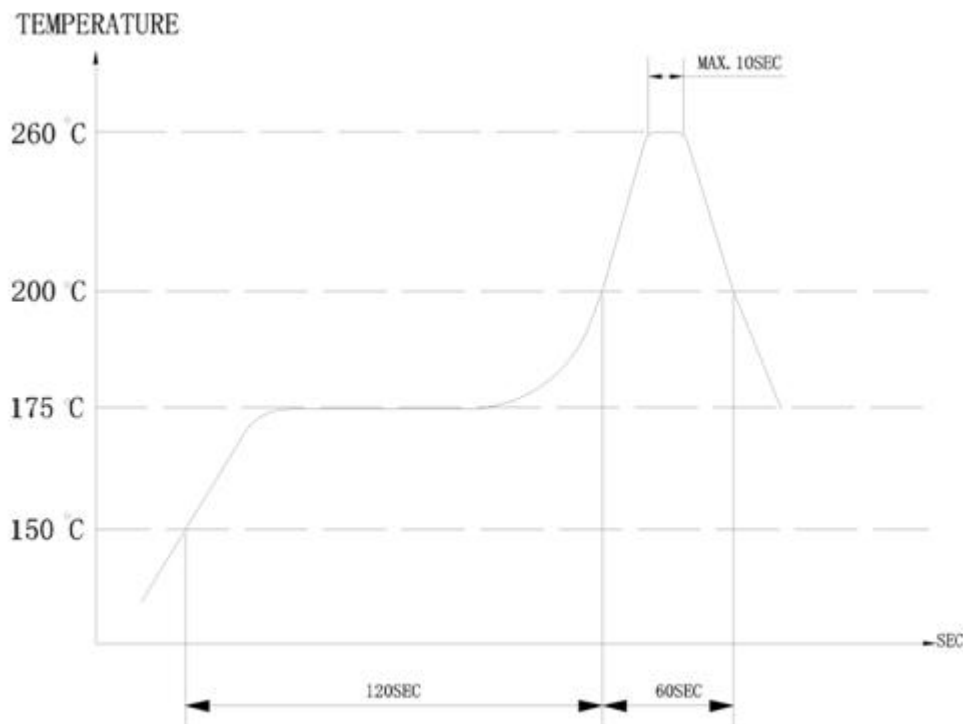
The base current I_b should be high enough so that it saturates the collector current of the transistor with the C load.

6. Soldering Condition

(1) Recommendable reflow soldering condition is as follows

(Reflow soldering is twice)

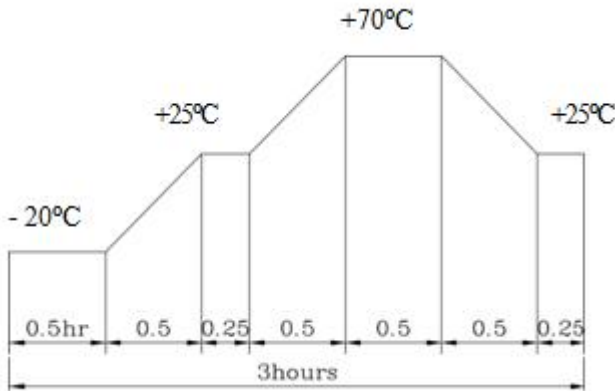
Note: It is requested that reflow soldering should be executed after heat of product goes down to normal



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

Manual soldering temperature 350 °C within 5 sec.

7.RELIABILITYTEST 可靠性测试

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	Afterbeingplacedina chamberwith80 2°Cfor96 hoursandthen beingplacedinnormalconditionfor2 hours. Allowablevariationof SPLaftertest: 10dB.
2	Low Temperature Test (Storage)	AfterbeingPlacedina chamberwith-30 2°Cfor96 hoursandthen beingplacedinnormalconditionfor2 hours. Allowablevariationof SPLaftertest: 10dB.
3	Humidity Test	AfterbeingPlacedina chamberwith90-95%R.H.at40 2°C for96 hoursandthenbeingplacedinnormalconditionfor2 hours. Allowablevariationof SPLaftertest: 10dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of :  Allowablevariationof SPLaftertest: 10dB.
5	Drop Test	Dropona hardwoodboardof 4cmthick,anydirections,6 times, at theheightof 75cm. Allowablevariationof SPLaftertest: 10dB.
6	Vibration Test	Afterbeingappliedvibrationofamplitudeof 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2hours . Allowablevariationof SPLaftertest: 10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersedinsolderbathof+300 5°Cfor3 1seconds . 90% min. leadterminalsshallbewetwithsolder (Excepttheedgeofterminals).
8	Terminal Strength Pulling Test	Theforceof 9.8N(1.0kg) isappliedtoeachterminalinaxialdirectionfor 10 seconds. No visible damage and cutting off.

TEST CONDITION.

Standard Test Condition	:	a) Temperature: +5~+35°C	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
Judgment TestCondition	:	a) 温度 : +5 ~ +35°C	b) 湿度 : 45-85%	c) 气压 : 860-1060mbar
	:	a) Temperature : +25 ± 2°C	b) Humidity : 60-70%	c) Pressure : 860-1060mbar
	:	a) 温度 : +25 ± 2°C	b) 湿度 : 60-70%	c) 气压 : 860-1060mbar

8.PACKINGSTANDARD 包装

