



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):

HC9650-16 Ω -CF

產品名稱 (Description):

蜂鸣器 (Buzzer)

產品規格 (Specification):

9.6*5.0MM 2.7KHZ 无源

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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一. SCOPE 适用范围

This specification applies magnetic buzzer XHxDZ-HC9650 侧发声-16 Ω
此规格书适用于 XHxDZ-HC9650 侧发声-16 Ω 蜂鸣器

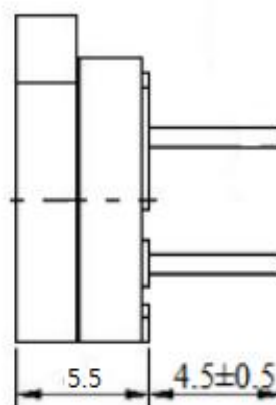
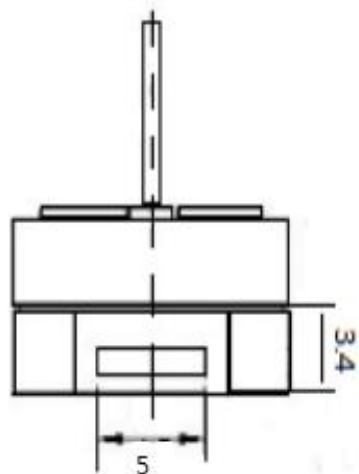
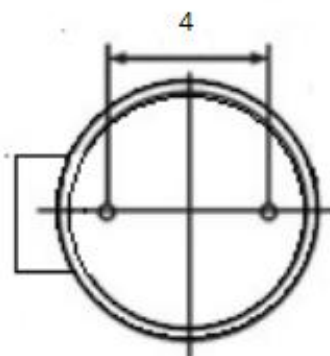
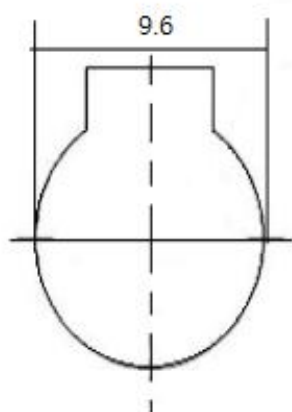
二. SPECIFICATION 规格

TEST CONDITION 测试条件

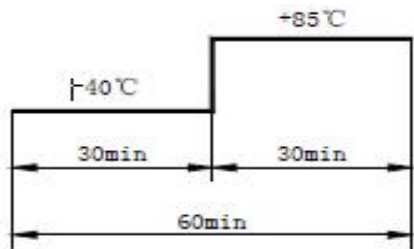
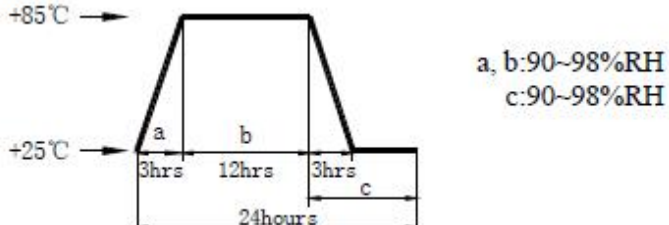
Standard test condition: temp(+5℃~+35℃)、humidity(45~85%)、Air pressure(860~1060mbar).
标准测试条件：温度+5℃~+35℃、湿度 45~85%、气压 860~1060mbar。
Basic test condition: temp(25±2℃)、humidity(60~70%)、Air pressure(860~1060mbar).
基本测试条件：温度 25±2℃、湿度 60~70%、气压 860~1060mbar。

NO	Parameter	Specification	Unit	Condition
1	Operating Voltage 操作电压	2-6	V	-
2	Rated Voltage 额定电压	3	V	-
3	Resonant Frequency 谐振频率	2700	Hz	Applying rated voltage, standard test Condition 应用于额定电压, 标准测试条件
4	Max Rated Current 最大电流	35	mA	
5	Min Sound output(10cm) 最小声压(10cm)	80	dB	Distance at 10cm(A-weight free air).Applying rated voltage, standard test condition 应用于10 厘米距离, 额定电压, 标准测试条件
6	Coil Resistance	16	Ω	-
7	Response time 响应时间	-	mS	Lowest operating voltage
8	Operating Temperature 操作温度	-20-70	℃	-
9	Storage Temperature 储存温度	-30-80	℃	-
10	Dimension 尺寸	Φ9.6×5.5	mm	请参照外观尺寸图 See attached drawing
11	Material 材质	PBT		-
12	Weight 重量	1	g	-

三. DIMENSIONS 尺寸图



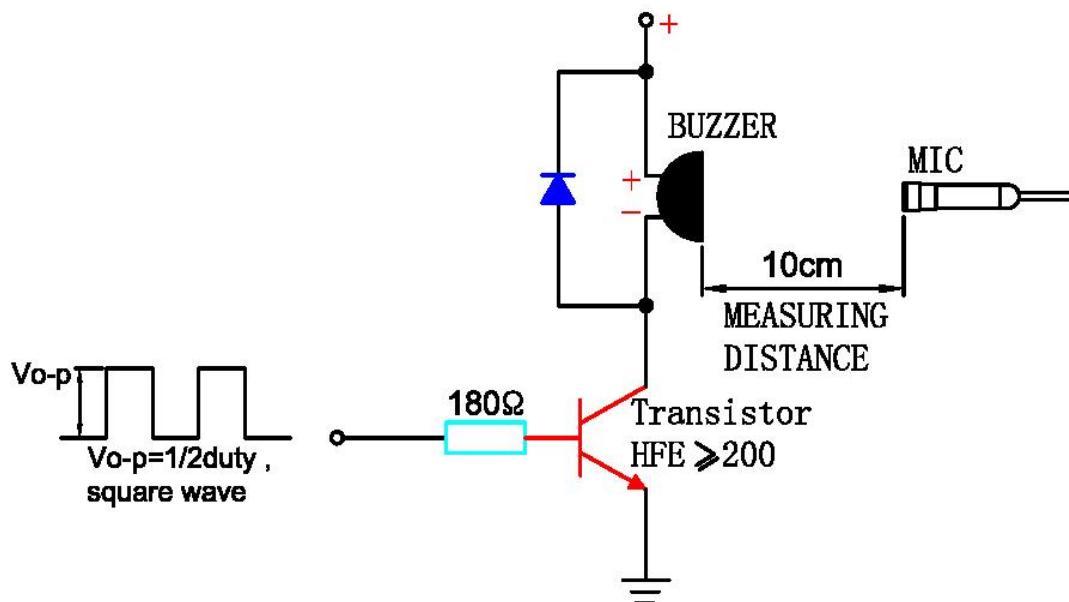
四. RSLIABILITY TEST 性耐性试验

No.	Item	TEST CONDITION AND REQUIREMENT	Condition standard
1	High Temperature Test 高温试验	After being placed in a chamber at +85℃ for 96 hours. 置于+85℃环境中96 小时。	After the test the part shall meet specifications without any degradation in appearance and performance except SPL after 4 hours at +25℃. The SPL shall be 85 dB or More. 经测试后，静置于+25℃环境中4 小时后，单体除声压外，外观及电气特性须符合规格，输出声压为85 dB 以上。
2	Low Temperature Test 低温试验	After being placed in a chamber at -40℃ for 96 hours. 置于-30℃环境中 96 小时。	
3	Temperature Shock Test 温度冲击试验	The part shall be subjected to 10 cycles, one cycle shall consist of. 单体承受热冲击循环试验 10 次，循环内容如图所示。 	
4	Temperature Cycle Test 温度循环试验	The part shall be subjected to 10 cycles, one cycle shall consist of. 单体承受温度/湿度循环试验 10 次，循环内容如图所示。 	Wave soldering temperature 265℃ ±5℃ and soldering time 3 to 5seconds 可承受波峰焊接温度265℃±5℃，焊接时间3-5秒。
5	Operating life test 寿命测试	1. Ordinary temperature/室温寿命测试 The part shall be subjected to 1000 hours at room temperature (+25±10℃)with 12V. 在室温(+25±10℃)下，输入12V，连续操作1000 小时。 2. High temperature The part shall be subjected to 500 hours at +70℃ with 12V. 在+70℃环境下，输入 12V，连续操作 500 小时。 3. Low temperature The part shall be subjected to 500 hours at -30℃ with 12V. 在-30℃环境下，输入 12V，连续操作 500 小时。	
6	Terminal Mechanical Strength 端子强度	The part shall be more than 10N on the direction of terminal for 10±1seconds . 沿端子轴向方向对单体施以 10N 拉力 10±1 秒。	No damage and cutting off 端子不松动、不脱落
7	Vibration 振动试验	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm. The vibration test shall consist of 2 hours per axis in each three axes(X, Y, Z), total 6 hours. 振幅1.52mm，频率10Hz-55Hz-10Hz，时间1 分钟。X, Y, Z 三个方向各 2 小时，共 6 小时。	After the test the part shall meet specifications without any damage in appearance and performance except SPL shall be 85dB or more.
8	Drop test 落下试验	The part only shall be dropped from a height of 75cm onto a 40mm Thick wooden board 3 times in 3 axes(X, Y, Z). 单体从75 厘米高处，X, Y, Z 三个方向各三次，落于40mm 厚的木板上。	经试验后，单体除声压外，外观及电气特性须符合格。输出声压85dB 以上。

五. MEASUREMENT SYSTEM 测量系统

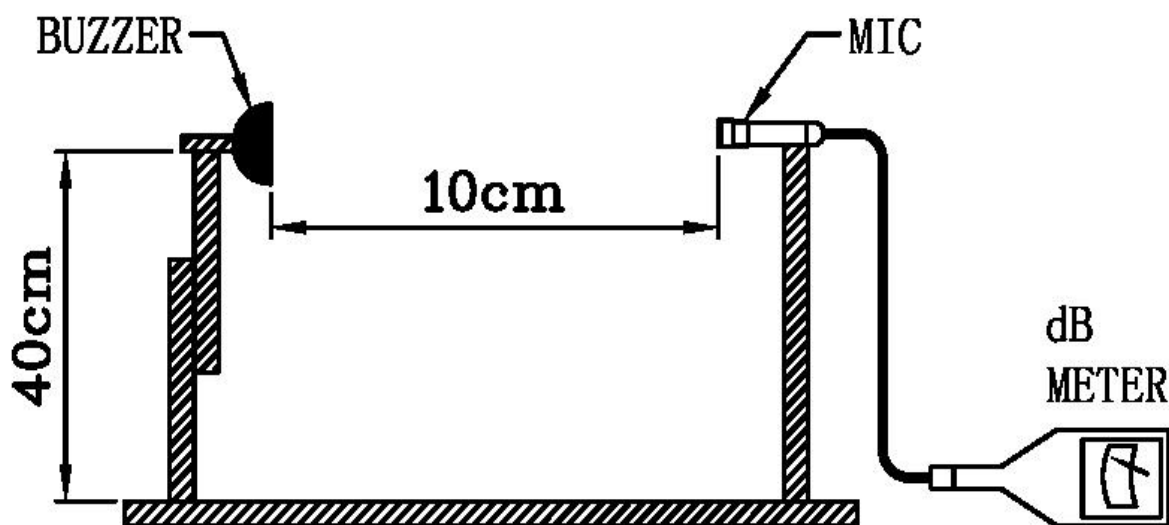
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below(Recommend Driving Circuit)

振荡频率、电流消耗和声压由测量仪器如下所示（推荐驱动电路）

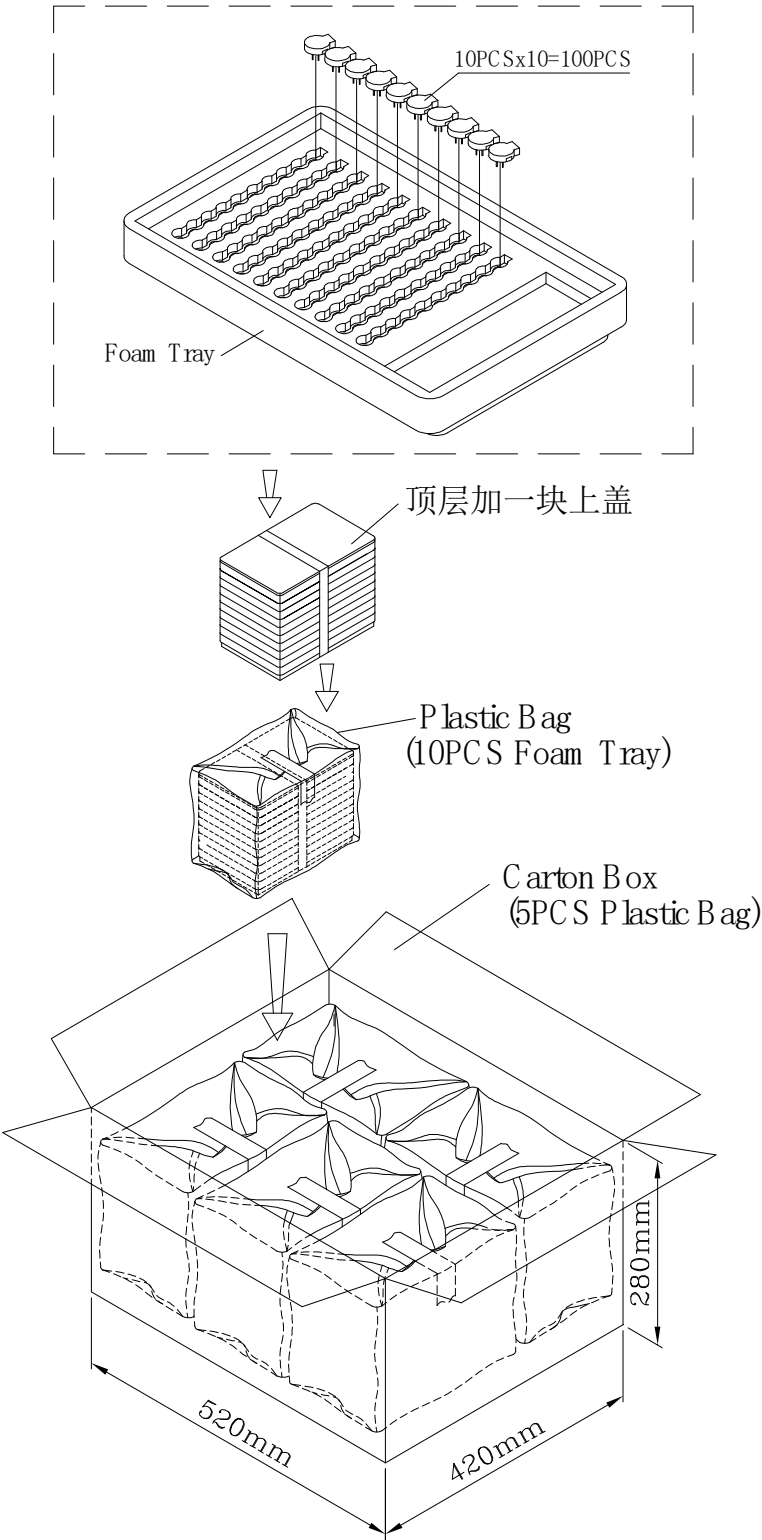


In the measuring test, buzzer is placed as follows:

在测量测试中，蜂鸣器的位置如下



六. Frequency Response Cur



Foam Tray	240m m x160m m x30m m	1x100PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	520m m x420m m x280m m	5x1000PCS=5,000PCS

Unit: mm

TOL:±0.2