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)：1609-L60MM

產品名稱(Description)：喇叭 (Speaker)

產品規格(Specification)：8Ω 1W

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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产品规格内容

1. SCOPE

THIS SPECIFICATION IS APPLIED TO THE DYNAMIC RECEIVER/SPEAKER WHICH IS USED IN CELLULAR PORTABLE PRODUCT.

2. GENERAL SPECIFICATIONS

ANALYSIS ITEMS	SPECIFICATIONS
1. TYPE	Dynamic speaker
2. OUT SIDE SIZE	16*09mm , Shown Fig.3
3. IMPEDANCE	8Ω ±20% at 1 KHz 2.0Vms Sine Wave
4. RESONANCE FREQUENCY	1000±20% Hz at 1.0V Sine wave
5. SENSITIVITY (S.P.L.)	87dB ±3dB at 0.5w/ 0.1m / 0.8,1.0,1.2,1.5×1000Hz average
6. RATED / MAX. POWER	0.5W / 1W
7. FREQUENCY RANGE	fo ~ 20kHz
8. DISTORTION	Less than 10 % at 1000Hz 0.5 W
9. UNIT WEIGHT	1.0g±0.1g
10. MEASURING DIAGRAM	Shown in Fig.1
11. FREQUENCY RESPONSE	Shown in Fig.2
12. OPERATING TEMPERATURE	- 30℃ ～ +65℃
13. STORAGE TEMPERATURE	- 40℃ ～ +65℃
14. OPERATION TEST	No one should perceive noise of sine wave 2.0V of 0.3kHz ~ 5kHz .

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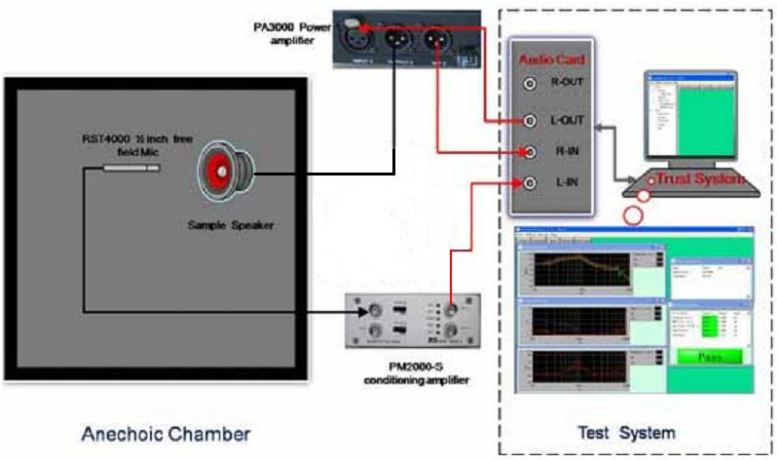
3. ENVIRONMENTAL CHARACTERISTICS

RESULTS OF AFTER TEST	Sensitivity difference shall be within (3dB) and should satisfy the test described under item 14 after each following test.
1. APPEARANCE	Should not exist any obstacle to be harmful to normal operation : damages \ cracks \ rusts and distortions etc.
3. POLARITY	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front.
4. LOAD TEST	0.5 W white noise is applied for 96 hours and satisfy the test listed on item 05,08,14.
5. HIGH TEMPERATURE DURABILITY	After having been in a test chamber for 96 hours at the condition of +65℃ ±5℃ and then let 2 hours in a room .
6. COLD TEMPERATURE DURABILITY	After having been in a test chamber for 96 hours at the condition of -40℃ ±5℃ and then let 2 hours in a room .
7. HUMIDITY DURABILITY	After having been in a test chamber for 96 hours at the condition of +40℃±5℃ 90%~96% RH and then let 2 hours in a room .
8.TEMPERATURE CYCLE DURABILITY	Low temperature -40 ℃ ±2℃ (2 hour) / high temperature +65±2℃ (2 hour) : 1 cycle , total 10 cycles and then let 2 hours in a room .
9.VIBRATION DURABILITY	Frequency Range:10Hz ~ 500Hz Amplitude : 0.35mm or acceleration : 50m/s^2 Duration : 2h per axis=10 cycles ; 3 axis
10.DROP TEST	The speaker unit shall stand 10 random drops from a height of 1 meter to a concrete floor faced with 5m/m thick hard wood board and be nothing mechanical damage.
11.PACKING STRENGTH	As per packing condition, from height of 1 meter, the unit is to be dropped 1 time each in three planes on concrete floor.

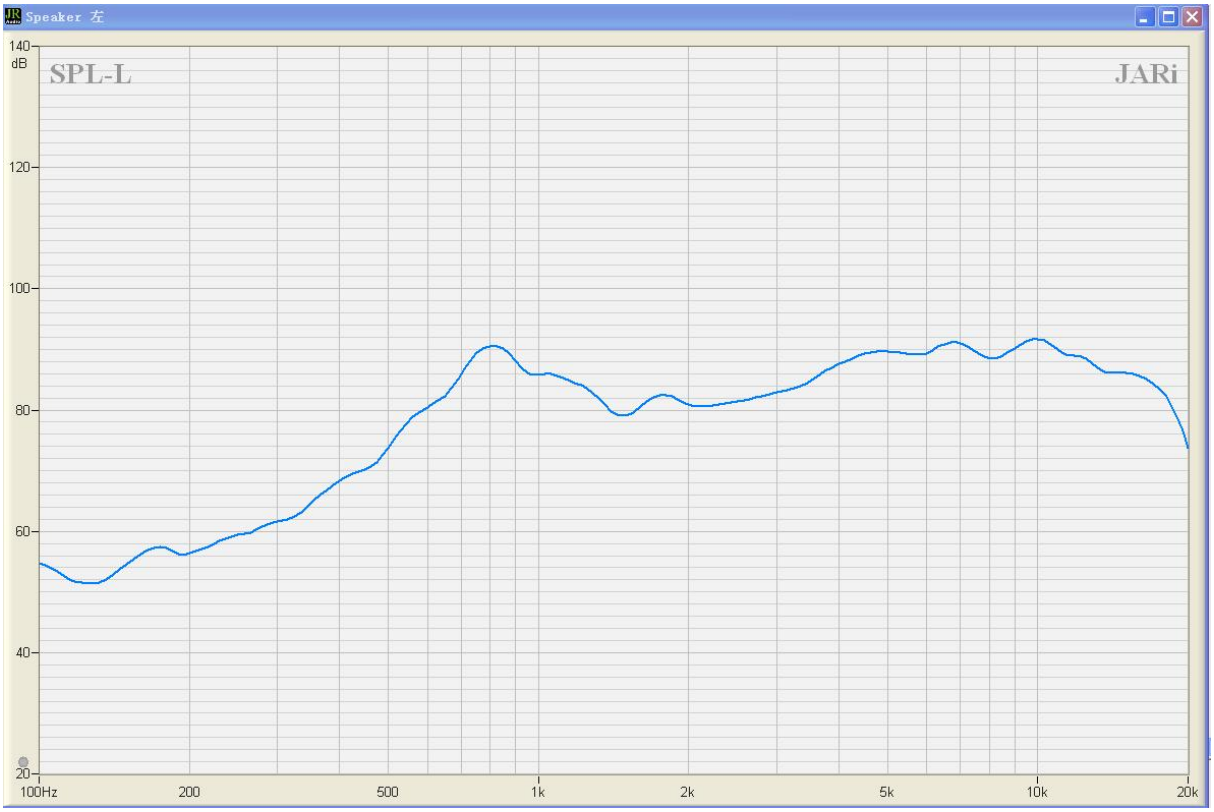
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4.STANDARD TEST CONDITION OF SPEAKER (Fig.1)



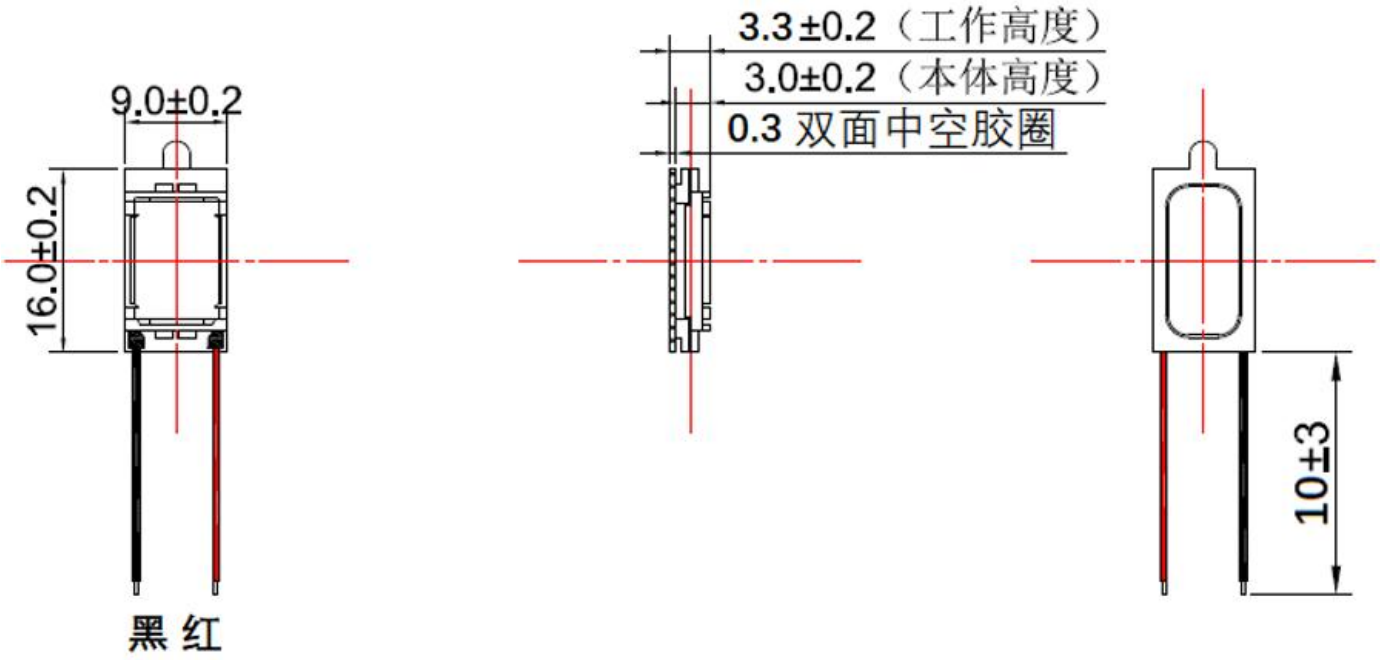
4.（SPEAKER MODE） (Fig.2)



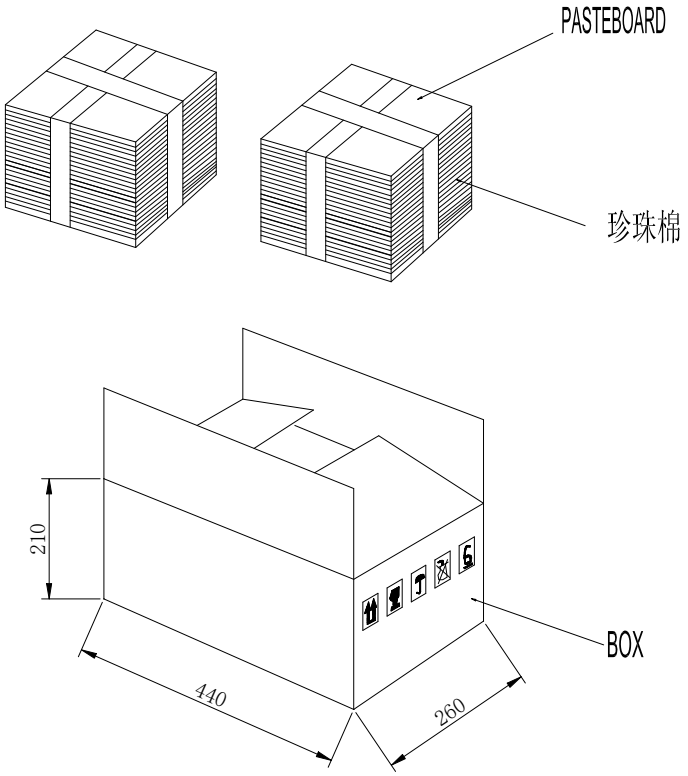
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产品规格内容

4.ASSEMBLY DIMENSIONS **(Fig.3)**



4.PACKING **(Fig.4)**



UNIT:MM NOTES:

1. 100 PCS PER TRAY PE PAN.
2. 2000 PCS PER CARTONS.
3. 2 CARTONS PER BOX.
4. 2000 PCS PER BOX.