



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-52 方形-4R5W

產品名稱 (Description):

喇叭 (Speaker)

產品規格 (Specification):

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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产品规格内容

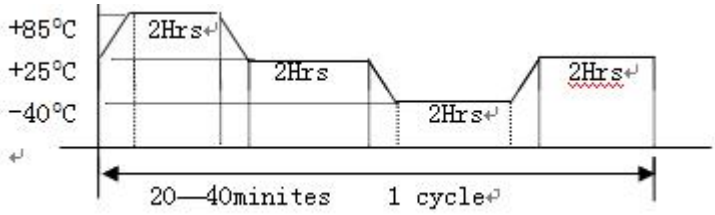
1.ELECTRICAL AND ACOUSTICAL SPECIFICATION

		Item	Specifications
	1-1	Dimension	Φ52mm×28.5mm
	1-2	Rated Input Power	5W
	1-3	Max Input Power	6W
	1-4	Rated Impedance	$3.0 \pm 15\% \Omega$ /2KHz/1Vrms input
	1-5	Resonance Frequency(f0)	$170 \pm 20\%$ Hz/1V
	1-6	Sound Pressure Level	$89 \pm 3\text{dB}$ (at 1M 1W 500,600,800,1000Hz average)
	1-7	Frequency Range	f0HZ ~20KHz
	1-8	Total Harmonic Distortion	5% MAX. at 1000~5KHz, 5w
	1-9	Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphragm shall move forward
	1-10	OperationTest	Must be normal at sine wave and program source 7W.
	1-11	Buzz,Rattle,etc.	Must be free audible noise (buzzes and rattles)(145Hz ~ 20KHz frequency range ,input level up to 1.0Vrms, while testing)
	1-12	Weight	78 g
	1-13	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.
	1-14	Storage temperature	-20℃~+65℃
	1-15	Operation temperature	-10℃~+55℃
	1-16	Operation temperature	-10℃~+55℃

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2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	High temp. Test	emperature: $+65^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Duration: 96 hours
2-2	Low temp. Test	Temperature: $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Duration: 96 hours
2-3	Humidity test	Temperature: $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Relative Humidity: 90%~95%RH Duration: 96 hours (recovery 6 hours)
2-4	Thermal cycle test.	Temperature: $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$ $\longleftrightarrow$ $+65^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Cycle: 12 cycles 
2-5	Vibration	Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm Duration: 2H 2 hours in each 3axes
2-6	Drop test	Height: 1.5m Cycle: 6 cycles (be mounted in a 100g fixture, drop samples 1.5m 2 drops on side(2*6), , 2 drops on each corner(2*4). Total 20 drops total 18 times
2-7	Load test	Input power: 2W, Pink noise 100 hours.
2-8	TERMINAL STRENGTH TEST	Load : 1.0Kg Duration: 15sec. (Shall be normal)
PASS CRITERION : After these test , the change of S.P.L shall be within ± 3 dB .		

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3.MEASURING METHOD(SPEAKER MODE)

3-1 .Test Condition

STANDARD

Temperature : 15 ~ 35℃

Relative humidity : 25% ~ 75%,

Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

Temperature : $20 \pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-2 . Standard Test Fixture

1.Input Power : 2.0V

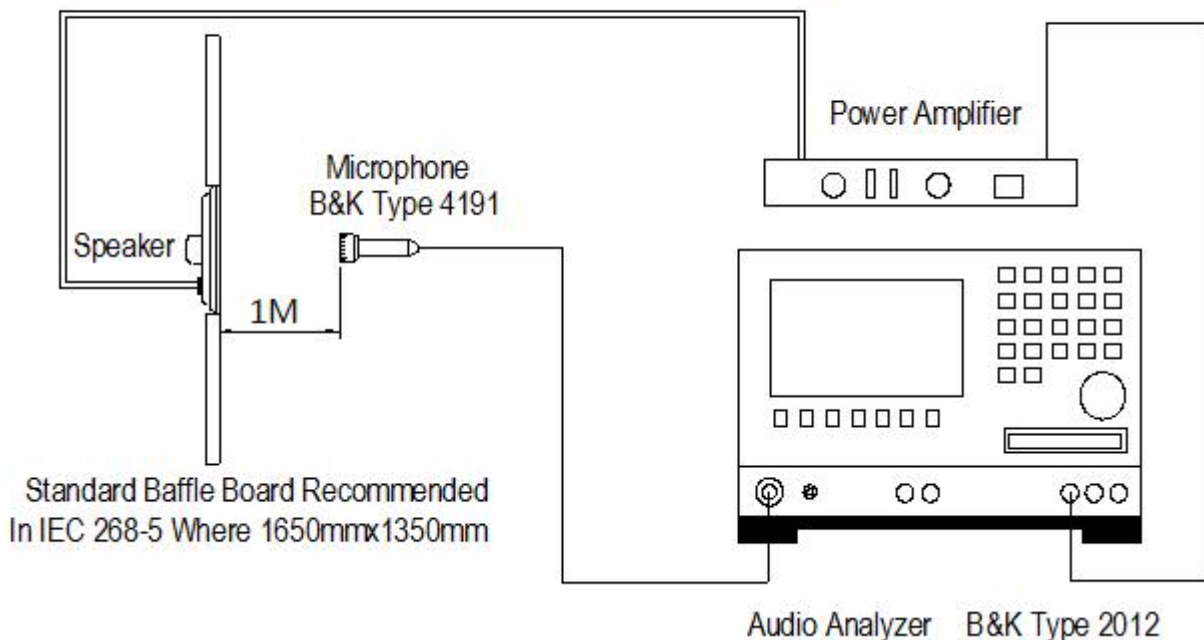
2.Zero Level : -dB

3.Mode : TSR

4.potentiometer Range : 50dB

5.Sweep Time : 0.5sec

Standard test condition of speaker



(fig.1)

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4.FREQUENCY RESPONSE CURVE(fig.2)

测试条件:1.0 W/1.0 M



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5.DIMENSIONS(fig.3)

