

SPECIFICATION

FOR

APPROVAL

Customer : _____

Description : Dynamic Speaker _____

Universal Model No. : JCSP111508-04BW-01 _____

Customer's Model No. : _____

ISSUE	CHECK	APPROVAL	CUSTOMER
Hou ZhiJie 08/28/18	Tan Qianfeng 08/28/18	Tang Helin 08/28/18	

ChangZhou JiaChuan Electronics Co., Ltd.

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ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Specifications
1-1	Dimension	11 × 15 × 3.0t
1-2	Rated Input Power	1.5W
1-3	Max Input Power	2.0W
1-4	Rated Impedance	8 ± 15% Ω /2.0KHz/2.83Vrms
1-5	Coil resistance	7.4 ± 10% Ω
1-6	Resonance Frequency(f0)	700 ± 20% Hz in free air at 1.0Vrms/10cm. 950 ± 20% Hz while testing in 1cc box at 2.83Vrms/10cm
1-7	Sound Pressure Level	94 ± 3 dB SPL /2.83Vrms/10cm at 2KHz in 1cc box
1-8	Frequency Range	f0HZ ~20KHz
1-9	Total Harmonic Distortion	15%MAX. at 2KHz, 2.83Vrms/10cm
1-10	Flux Density	0.4T
1-11	Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphram shall move forward
1-12	OperationTest	Must be normal at sine wave and program source 1W.
1-13	Buzz,Rattle,etc.	Must be free audible noise (buzzes and rattles)(200Hz ~ 2KHz frequency range ,input level up to 2.83Vrms, while testing in 1cc box.)
1-14	Weight	1.5g
1-15	Appearance	Should not exist any obstacle to be harmful to normal operation;damages,cracks,rusts and distortions,etc.
1-16	Storage temperature	-40℃~+85℃
1-17	Operation temperature	-20℃~+70℃

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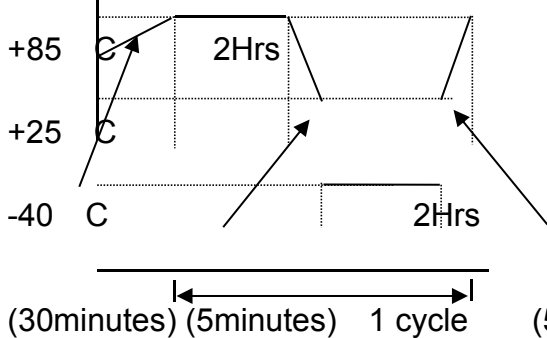
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2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	High temp. Test	temperature: $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Duration: 96 hours
2-2	Low temp. Test	Temperature: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 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: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ $\longleftrightarrow$ $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Cycle: 12 cycles Duration: 2 hour 2 hour (recovery 2 hours)  (30minutes) (5minutes) 1 cycle (5minutes)
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: 1W, Pink noise 96 hours in 1cc box.
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 ± 3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-2 . Standard Test Fixture

1.Input Power : 2.83Vrms

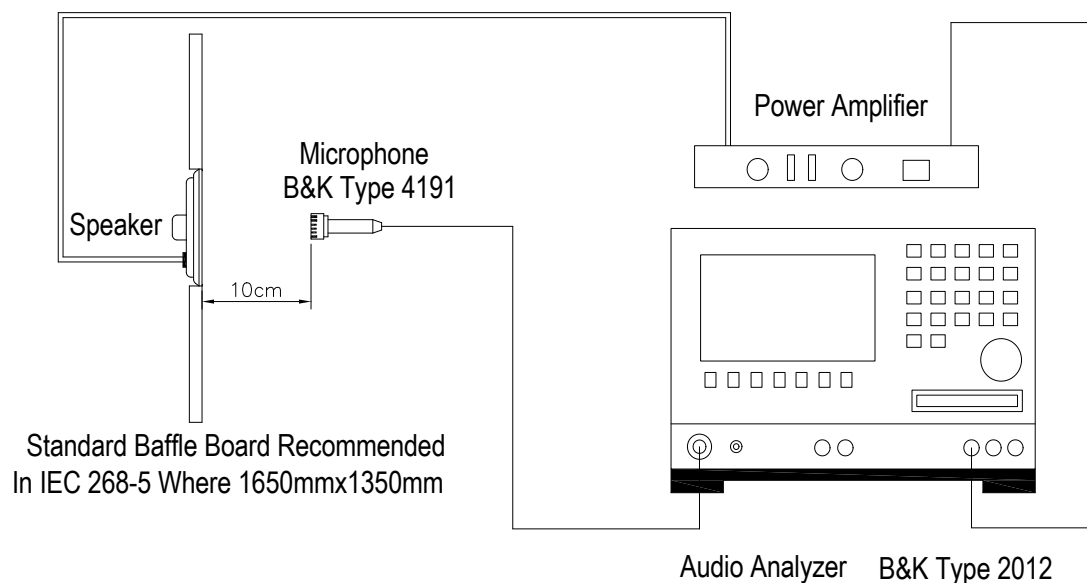
2.Zero Level : -dB

3.Mode : TSR

4.potentiometer Range : 50dB

5.Sweep Time : 0.5sec

Standard test condition of speaker



(fig.1)

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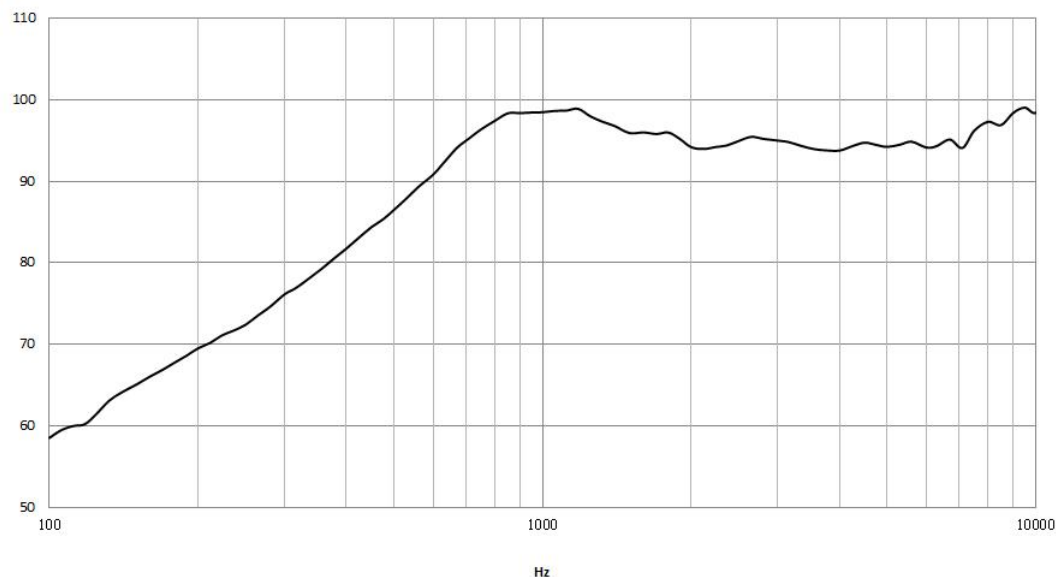
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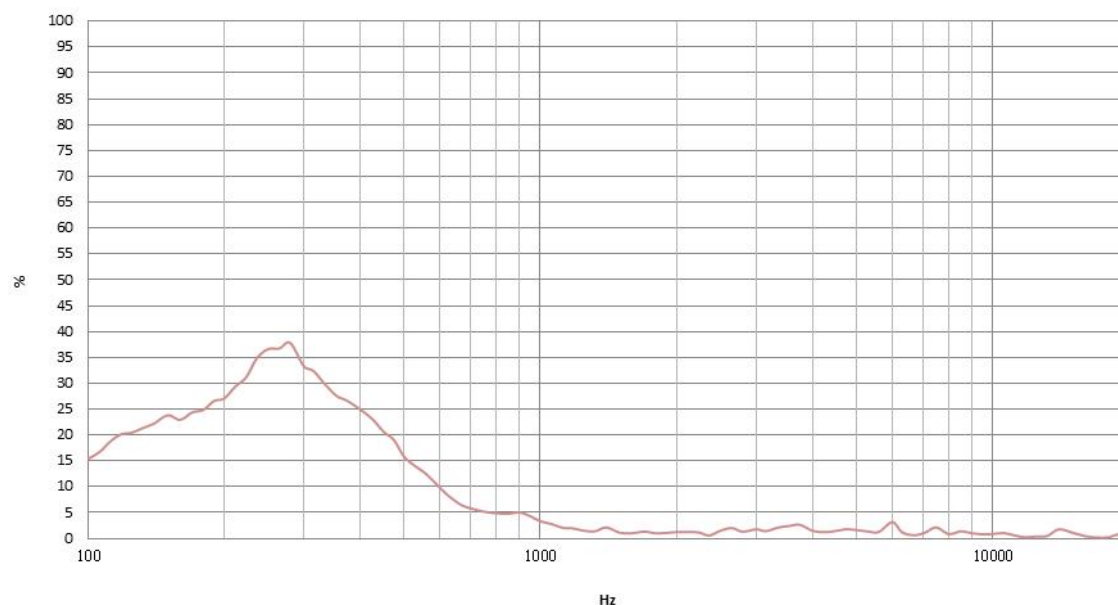
4.FREQUENCY RESPONSE CURVE(fig.2)

测试条件:2.83Vrms/10cm in 1cc BOX



5.SPEAKER DISTORTION CURVE(fig.3)

测试条件:2.83Vrms/10cm in 1cc BOX



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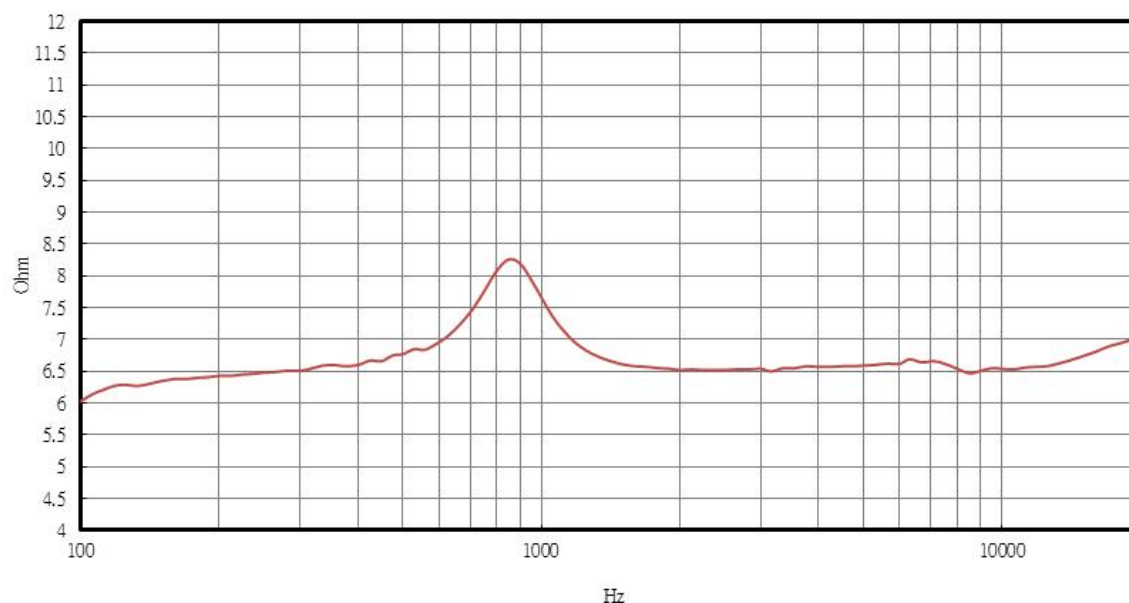
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6.IMPEDANCE RESPONSE CURVE(fig.4)

测试条件:2.83Vrms/10cm in 1cc BOX



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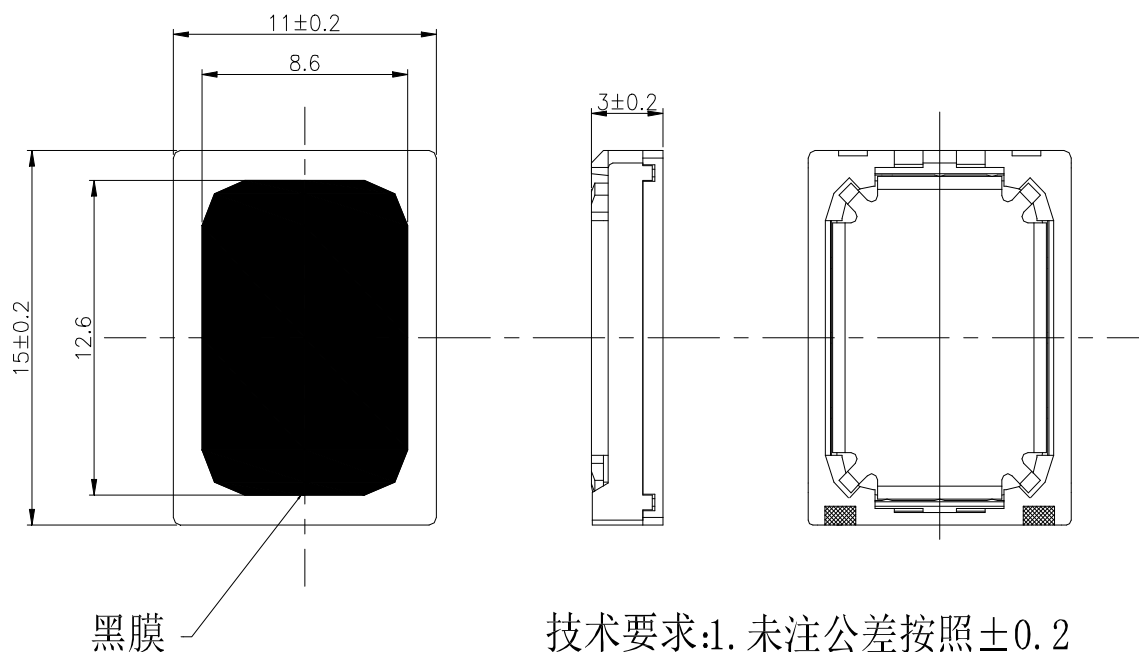
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7.DIMENSIONS(fig.5)



7	Front Cover	1	PPA	GU-001
6	Magnet	1	NdFeB	GU-001
5	Plate	1	SPCC	GU-001
4	Voice coil	1	COPPER WIRE	GU-001
3	Diaphragm	1	PEEK	GU-001
2.	Yoke	1	SPCC	GU-001
1	Frame + terminal	1	PPA+SUS	GU-001
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

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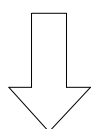
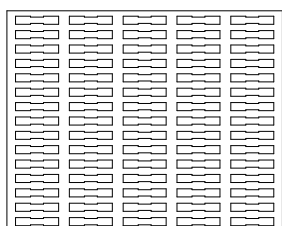
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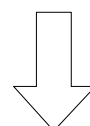
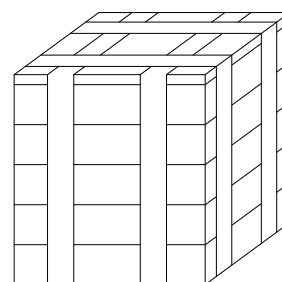
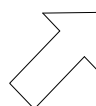
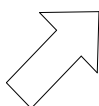
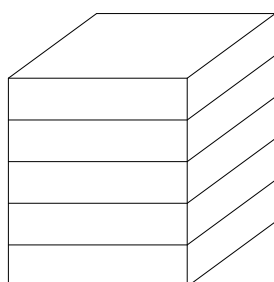
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8.PACKING(fig.6)

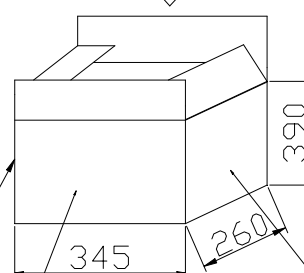
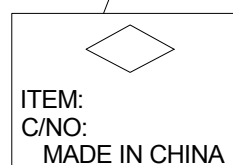
150PCS×1=150PCS



150PCS×30=4500PCS



BIG BOX



6	11
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MODEL:	
QTY:	PCS
N.W:	Kg
G.W:	kg
SIZE:	34.5X26X39cm
LOT NO	

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