

# SPECIFICATION

## FOR APPROVAL

Description : Dynamic Speaker

ICC/Intervox Model No. : S110R-1W-PC

Customer's Model No. : \_\_\_\_\_

ISSUE	CHECK	APPROVAL	CUSTOMER
Luo Yong 11/12/13	WuTing 11/12/13	Tang Helin 11/12/13	



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## 1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Specifications
1-1	Type	Dynamic speaker with pins
1-2	Rated Input Power	1W
1-3	Max Input Power	1.3W
1-4	Rated Impedance	$8 \pm 15\% \Omega$ /1KHz/1Vrms
1-5	Coil resistance	$8 \pm 15\% \Omega$
1-6	Sound Pressure Level	$99 \pm 3\text{dB}$ at 2.0KHz 0.25W/0.1m baffleboard (IEC)
1-7	Resonance Frequency	$1200\text{Hz} \pm 20\%$
1-8	Non linear distortion factor THD+N(f=2KHz,0.1W,sinus wave)	<5%
1-9	Frequency Range	500 ~ 4KHz
1-10	Weight	9 g
1-11	Operation temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

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## 2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	High temp. Test	Keep 96 hours at +85°C ±3°C and leave 3 hours in normal temperature and then check
2-2	Low temp. Test	Keep 96 hours at -40°C ±3°C and leave 3 hours in normal temperature and then check
2-3	Humidity test	Keep 96 hours at + 40°C ±3°C relative humidity 92-95% and leave 3 hours in normal temperature and then checked.
2-4	Thermal cycle test.	Low temperature: -40 °C ± 3 °C , temperature:+85 °C ± 3 °C , cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
2-5	Vibration	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
2-6	Drop test	Free drop a unit from 75cm height to a board of 20mm thick, total 10 times.
2-7	Load test	Rated Power white noise is applied for 96 hours
2-8	Max Power test	Max power 1 min on – 2 min off 10 cycles.

### 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°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

JUDGEMENT

Temperature : 20 ± 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

### 3-2. Standard Test Fixture

1. Input Power : 0.25W/10cm square wave

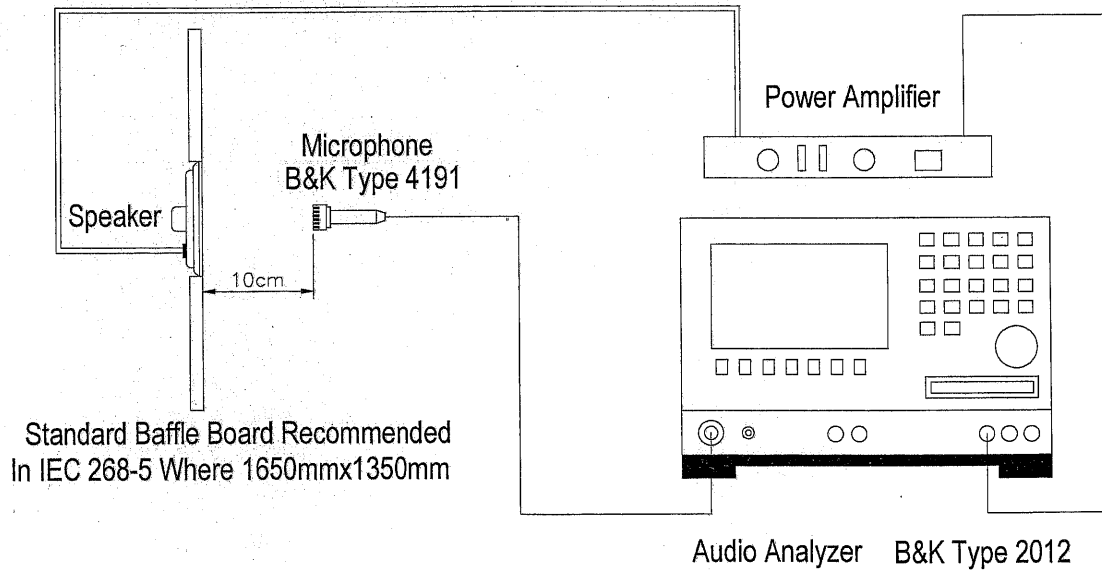
2. Zero Level : -dB

3. Mode : TSR

4. potentiometer Range : 50dB

5. Sweep Time : 0.5sec

### Standard test condition of speaker



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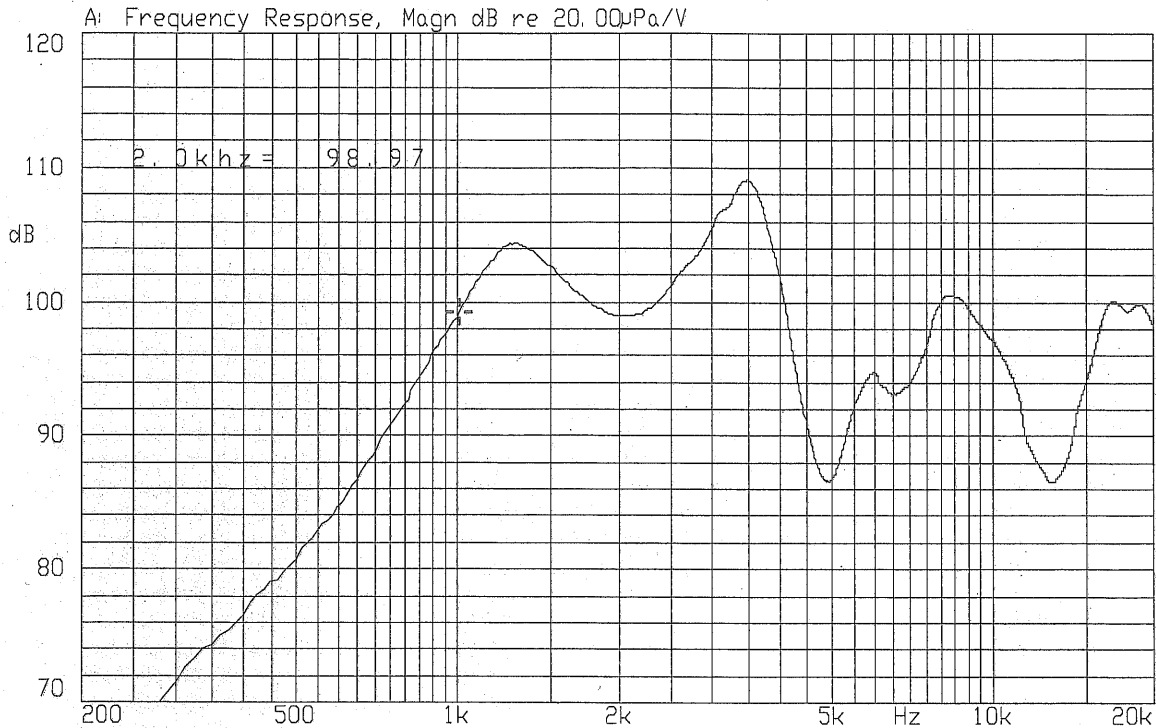
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## 4.FREQUENCY RESPONSE CURVE

0.25W 0.1m



07-APR-2010 09:47:00

Mode: TSR



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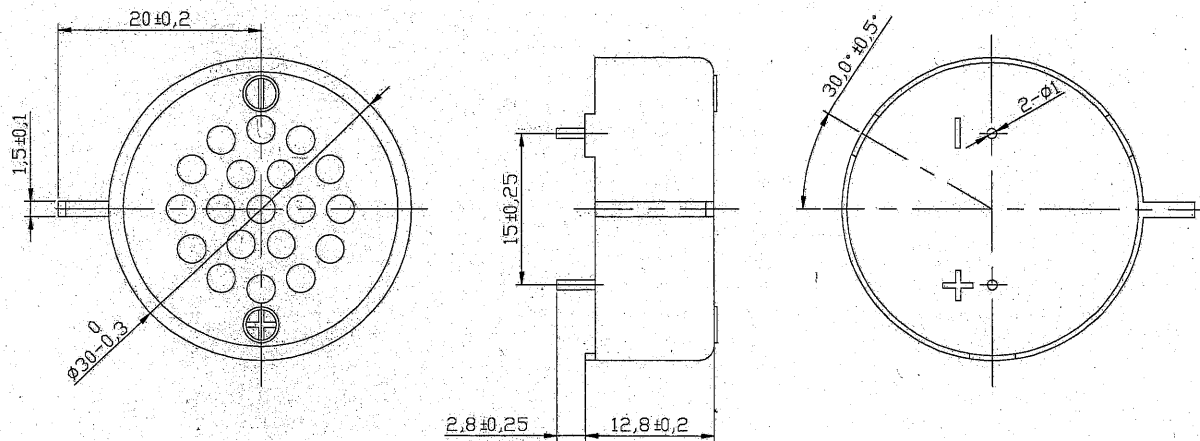
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## 5.DIMENSIONS

Unless otherwise specified, tolerance:  $\pm 0.3$ (unit: mm)



4	Pin	2	Red Copper	Tin plate
3	PCB	1	FR4	
2.	Speaker	1		
1	Housing	1	MPPO	BLACK
PART NO.	PART NAME	QTY	MATERIAL	REMARK

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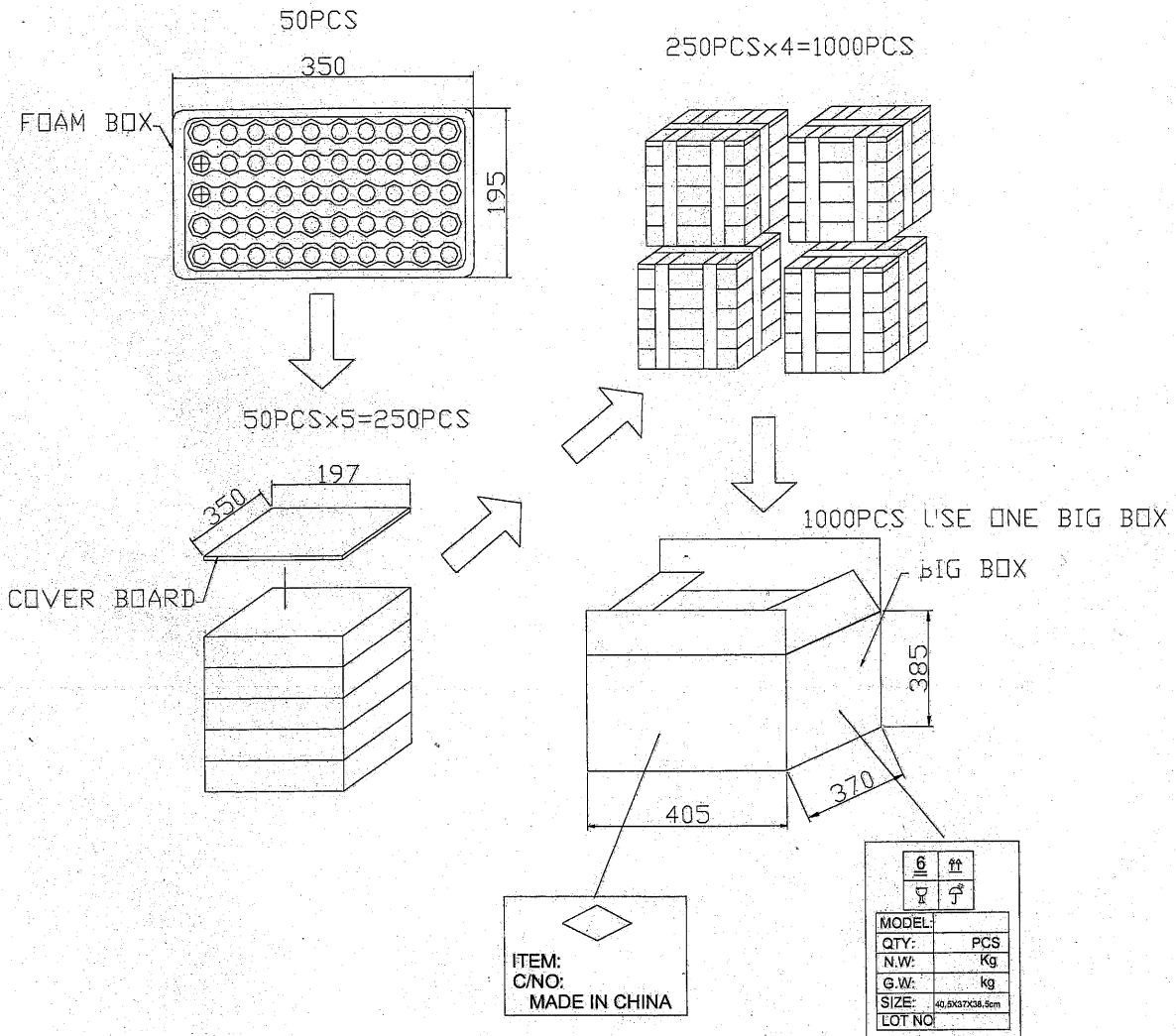
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## 6. PACKING



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