



请承认书

Version No.: V2.1

常州昊翔电子有限公司 <b>Changzhou HaoXiang Electronic Co., LTD</b> 客户名称 <b>CUSTOMER NAMED :</b> _____ 产品名称 <b>COMMODITY :</b> <u>          Speaker          </u> 产品型号 <b>MODEL NO :</b> <u>          TDA-B9945KC2T200W40          </u> 客户料号 <b>PART NO :</b> _____
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审核	秦皓	主办	潘莲 May.29,2021
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客户承认栏			
承认	拒收		

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# A. MODEL: TDA-B9945KC2T200W40

## B. SPECIFICATION

Test condition: Temperature: 15~35℃ Related Humidity:25~75% (GB/T9396-1996)

No.	Item	Specification	Condition
1	Dimension	99.5x45xH20mm	
2	Impedance	$2 \pm 15\% \Omega$	At 1KHz
3	Output Sound Pressure Level	$91 \pm 3\text{dB}$ ( 1W/ 0.1M)	At 0.6K、0.8K、1.0K、1.2KHZ in average
4	Response Frequency	$100 \pm 20\%$ Hz	at 1V(NO Baffle )
5	Frequency Range	F0 --- 10KHz	Deviation 10dB from average S.P.L.
6	Power Rating	Normal: 4W	Sine Wave
7	THD	<5%	At 1KHz, 1W
8	Operating temperature	- 20 ~ + 55℃	
9	Storage temperature	- 20 ~ + 55℃	
10	Abnormal Sound test	Buzz,Rattle,etc Should not be audible at 2.83 VRMS sine wave from Fo ~ 3KHz.	
11	Polarity	When a positive DC current is applied to the terminal marked(+),Diaphragm shall move forward.	
12	RoHS	The Speaker is RoHS compliant.	

## C.ENVIRONMENT TEST

No.	Item	Condition	Evaluation standard
1	Humidity	After being placed in a chamber at $+40 \pm 2^\circ\text{C}$ and 60~70%(RH) Relative Humidity for 16 hours.	The sound pressure as specified shall neither deviate more than $\pm 3\text{dB}$ from the initial value, nor any significant damage after any of following testing.
2	High Temperature	After being placed in a chamber at $+55 \pm 2^\circ\text{C}$ for 96 hours.	
3	Low Temperature	After being placed in a chamber at $-20 \pm 2^\circ\text{C}$ for 96 hours.	
4	Temperature Cycle Test	Temperature: $-20^\circ\text{C}$ $+55^\circ\text{C}$ Duration: 45minutes 45minutes Temperature gradient: $1\sim 3^\circ\text{C}/\text{min}$ . Cycle: 10	
5	Heat Shock Test	High temperature: $+55 \pm 2^\circ\text{C}$ Low temperature: $-20 \pm 2^\circ\text{C}$ Changeover time: < 30 seconds Duration: 45 minutes Cycle: 10	

## D. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard
1	Drop Test	Height: 0.6m Cycle: 6 (1 each plain) Onto the concrete board	The sound pressure as specified shall neither deviate more than $\pm 3\text{dB}$ from the initial value, nor any significant damage after any of following testing.

## E.RELIABILTY TEST

No.	Item	Test conditions	Evaluation standard
1	Load test	3W white noise is applied for 96 hours	The sound pressure as specified shall neither deviate more than $\pm 3\text{dB}$ from the initial value, nor any significant damage after any of following testing.

## F. MEASURING METHOD(SPEAKER MODE)

### F-1.Test Condition

#### (a)STANDARD:

Temperature :  $15 \sim 35^{\circ}\text{C}$ , Relative humidity :  $45\% \sim 85\%$ ,

Atmospheric pressure :  $860\text{mbar to }1060\text{mbar}$

#### (b)JUDGEMENT:

Temperature :  $20 \pm 3^{\circ}\text{C}$ , Relative humidity :  $60\% \sim 70\%$ ,

Atmospheric pressure :  $860\text{mbar to }1060\text{mbar}$

### F-2.Standard Test Fixture

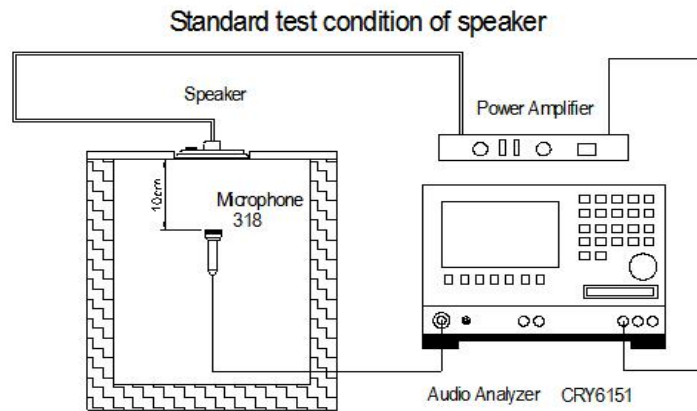
1.Input Power :  $1\text{W}$

2.Zero Level :  $- \text{dB}$

3.Mode : **TSR**

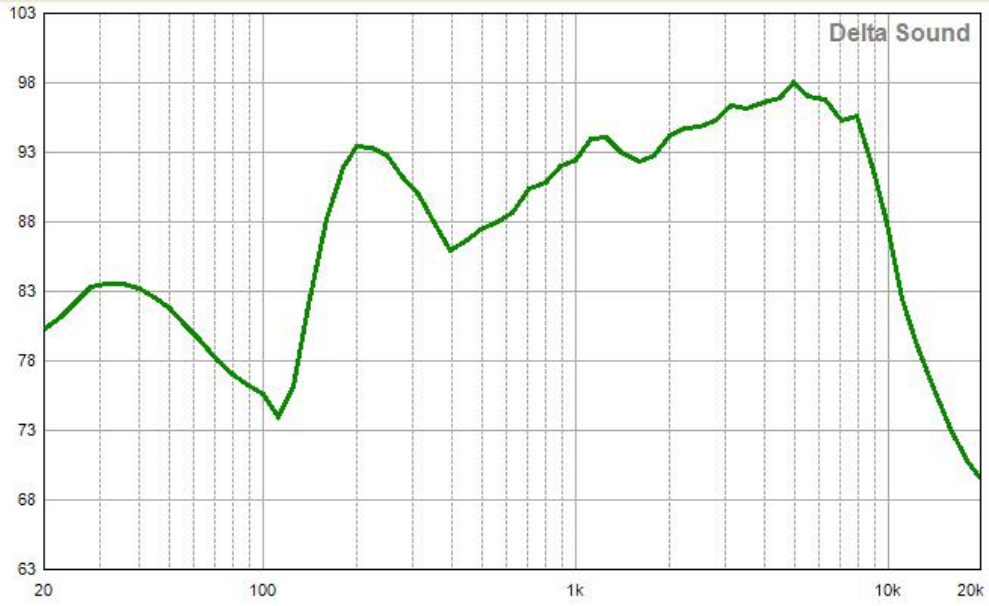
4.potentiometer Range :  $50\text{dB}$

5.Sweep Time :  $0.5\text{sec}$

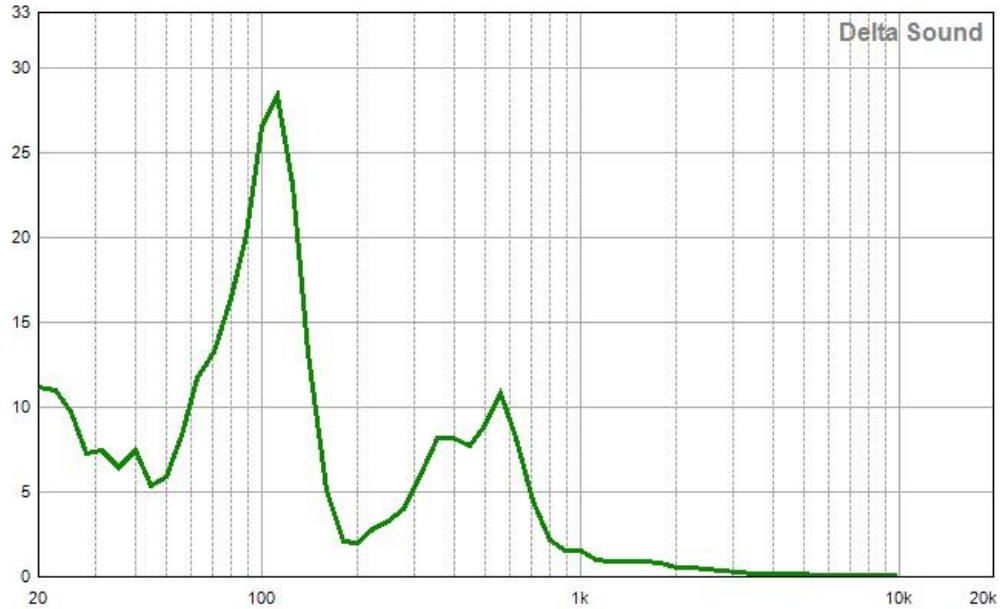


## G. FREQUENCY CURVE

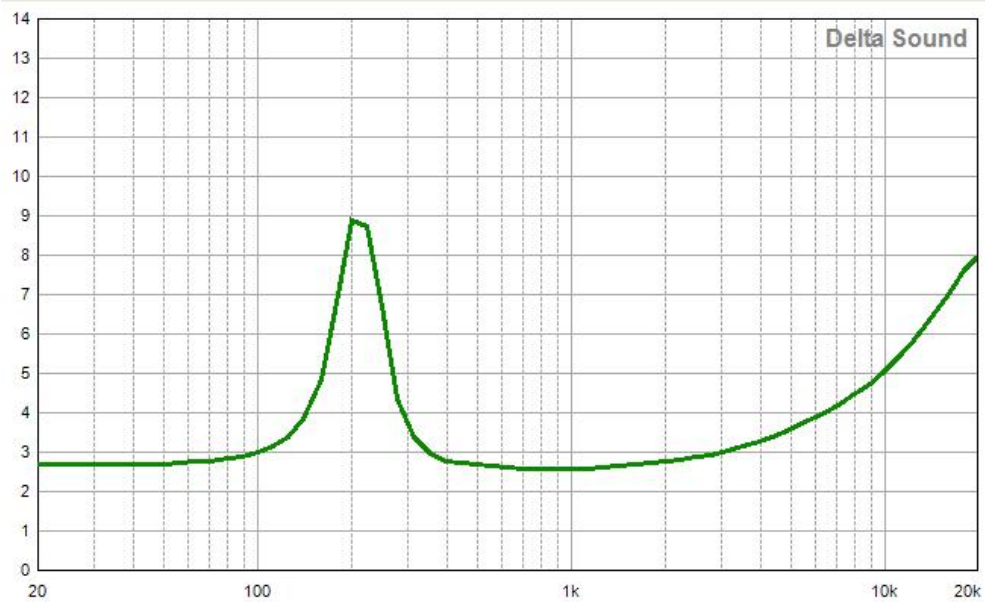
### (1) frequency curve



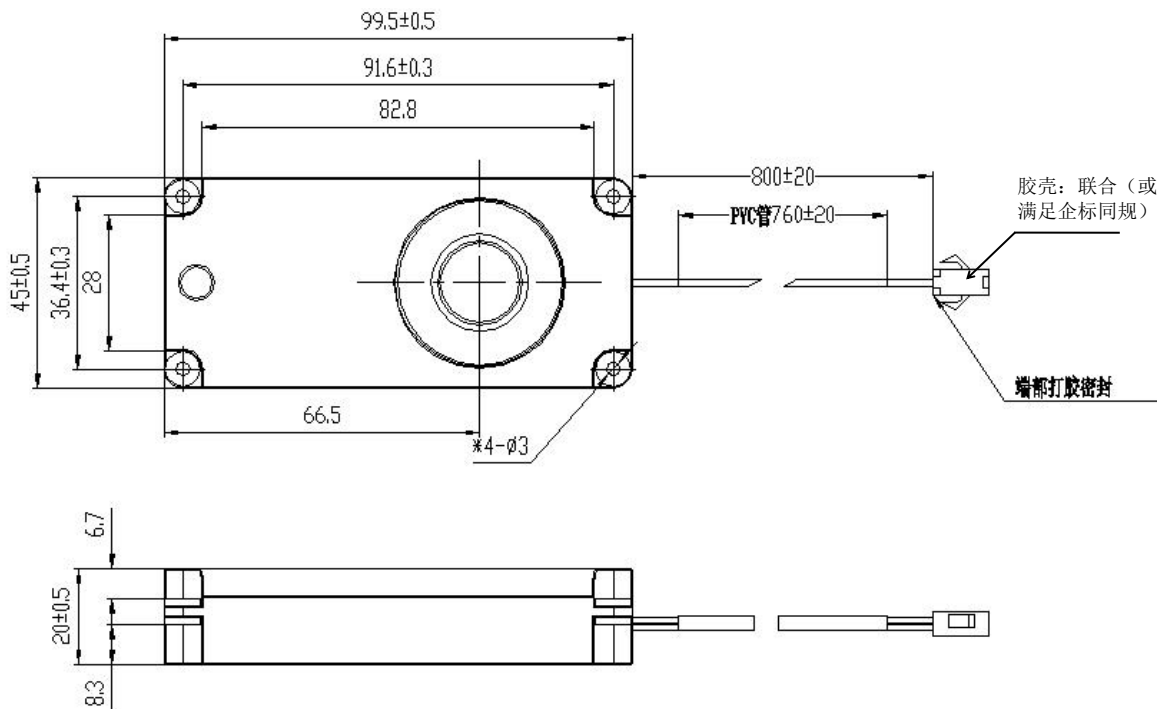
### (2) distortion curve



### (3) Impedance curve



## H.APPEARANCE DRAWING



Unit:mm Tolerance :  $\pm 0.5\text{mm}$

## I.NOTICE ON PRODUCT STORAGE

a. Please store the products in room where the temperature / humidity is stable. And avoid such places where there are large temperature changes. Please store the products under the following conditions :

Temperature : -10 to +40 (degree C)

Humidity : 15 to 85% R.H.

b. Expire date (Shelf life) of the products is 6 months after delivery under the conditions of a sealed and an unopened package. Please use the products within 6 months after delivery.If you store the products for a long time (more than 6months), use carefully because the products may be degraded in the solder-ability and/or rusty. Please confirm solder-ability and characteristics for the products regularly.

c. Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solder-ability due to storage under the poor condition.

