请承认书

Version No.：V2.0

常 州 昊 翔 电 子 有 限 公 司

Changzhou *HaoXiang* Electronic Co., LTD

客 户 名 称

CUSTOMER NAMER ：_____

产 品 名 称

COMMODITY ： **Speaker**

产 品 型 号

MODEL NO ：**TDA-B9944CC4T20W30L450**

客 户 料 号

PART NO ：_____

审 核	秦皓	主 办	潘莲 Apr.12,2021

客 户 承 认 栏			
承 认		拒 收	

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A. MODEL: TDA-B9944CC4T20W30L450

B. SPECIFICATION

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

No.	Item	Specification	Condition
1	Dimension	99x44.5xH20mm	
2	Impedance	4±15%Ω	At 1.0KHz 1V
3	Output Sound Pressure Level	97 3dB(1W/ 0.1M)	At 0.5K，1.0K，2.0K，3.0K Hz，in average
4	Response Frequency	100±20%Hz	at 1V(NO Baffle)
5	Frequency Range	F0 --- 20KHz	Deviation 10dB from average S.P.L.
6	Power Rating	Normal: 3W Maximum: 3.2W	Sine Wave
7	THD	<5%	At 1KHz, 3W
8	Operating temperature	- 10 ~ + 55℃	
9	Storage temperature	- 10 ~ + 55℃	
10	Abnormal Sound test	Buzz,Rattle,etc Should not be audible at3.46VRMS sine wave from 165 ~ 2KHz.	
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 ± 2 ℃ and 60~70%(RH) Relative Humidity for 16 hours.	The sound pressure as specified shall neither deviate more than ±3dB from the initial value, nor any significant damage after any of following testing.
2	High Temperature	After being placed in a chamber at +55 ± 2 ℃ for 96 hours.	
3	Low Temperature	After being placed in a chamber at -10 ± 2 ℃ for 96 hours.	
4	Temperature Cycle Test	Temperature: -10℃ +55℃ Duration: 45minutes 45minutes Temperature gradient: 1~3℃/min. Cycle: 10	
5	Heat Shock Test	High temperature: +55±2℃ Low temperature: -10±2℃ 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 ± 3dB 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 ±3dB 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 ~ 35℃, Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar

(b)JUDGEMENT：

Temperature : 20±3℃, Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

F-2.Standard Test Fixture

1.Input Power :1W

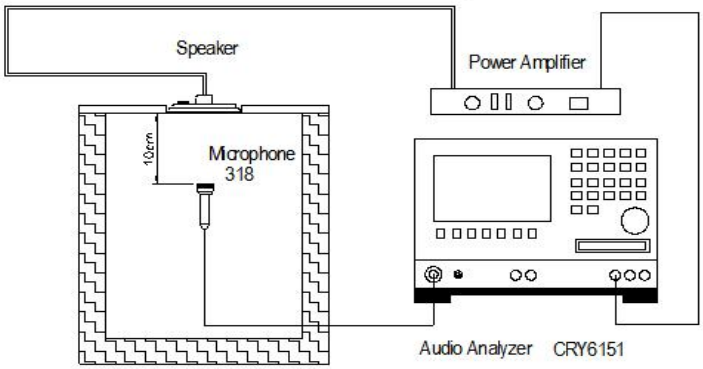
2.Zero Level : -dB

3.Mode : TSR

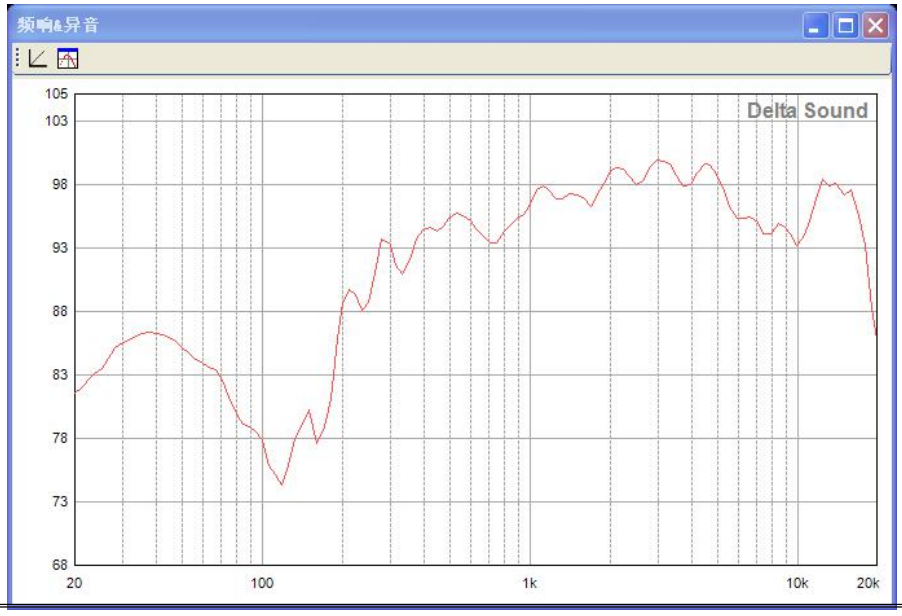
4.potentiometer Range : 50dB

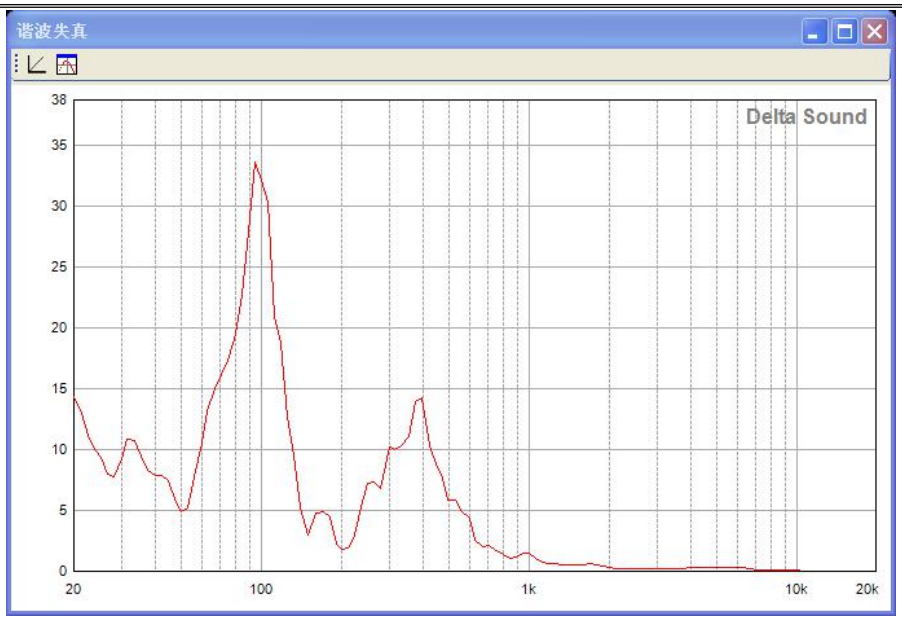
5.Sweep Time : 0.5sec

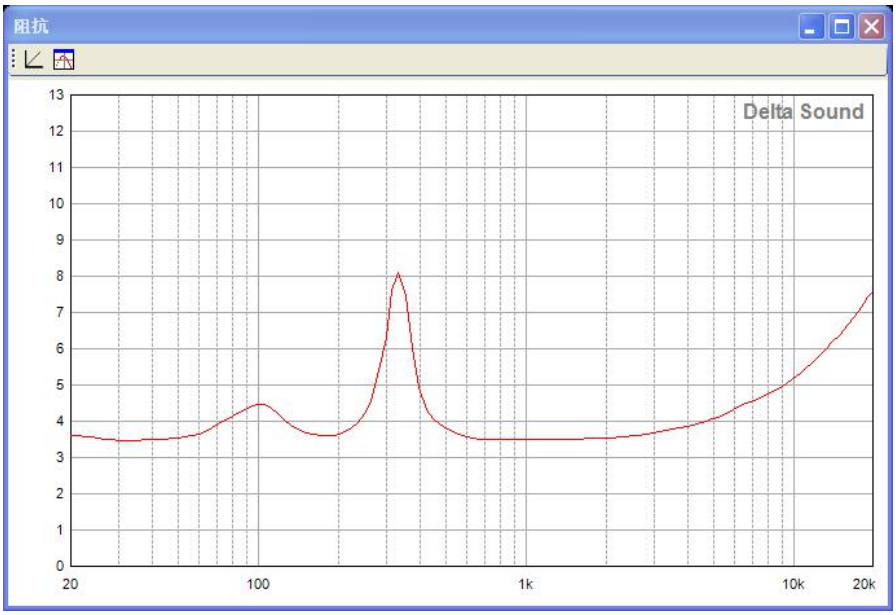
Standard test condition of speaker



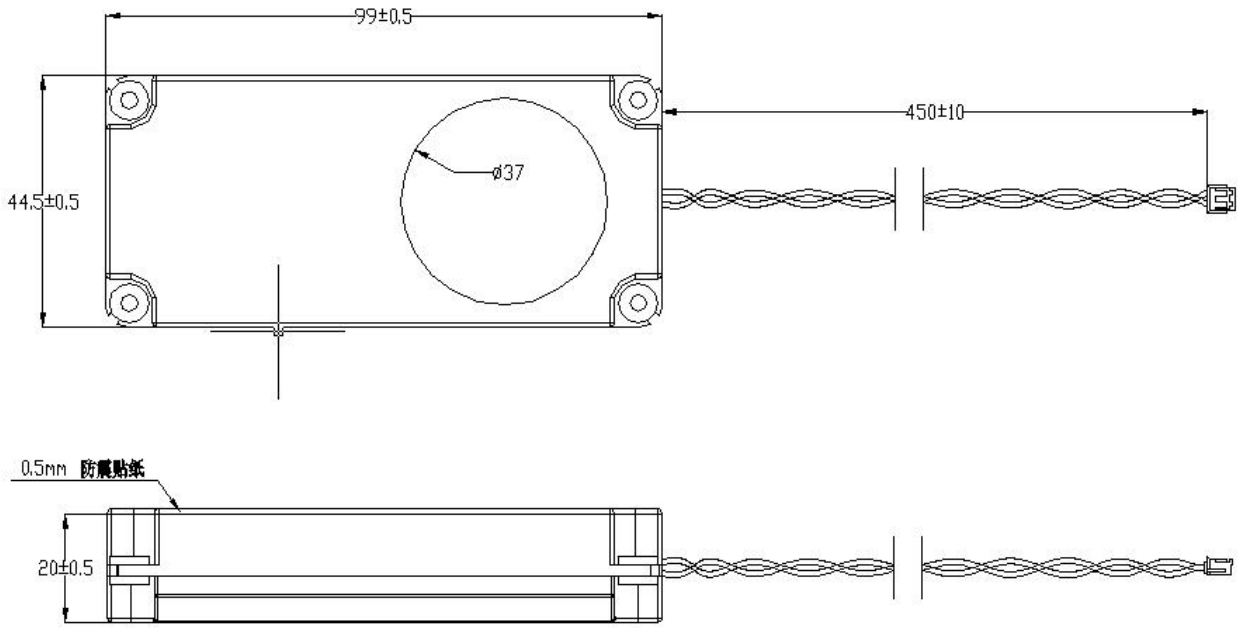
G. FREQUENCY CURVE







H.APPEARANCE DRAWING



Unit:mm Tolerance : ±0.5mm

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.

J. REVISION

No.	DATE	DESCRIPTION	REMARK	VERSION
1	Apr.12,2021	Initial condition	TDA-B9944CC4T20W30L450	V2.0