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 ：Box Speaker

产 品 型 号

MODEL NO ：TDA-B91CC6H230W30L80

客 户 料 号

PART NO ：_____

审 核	秦皓	主 办	牛成洋 Nov.1.2023

客 户 承 认 栏			
承 认		拒 收	

常 州 昊 翔 电 子 有 限 公 司

常 州 声 翔 电 子 有 限 公 司

常州公司：

江苏省常州市戚区潞城镇富民路 259,286 号

TEL:86-519-8363089 13585451311

FAX:86-519-88353844

E-mail: sales@tda-buzzer.com sales2@tda-buzzer.com

南通工厂：

江苏如皋市郭元镇工业园辰翔工业区

TEL:86-513-87910588 871919168

FAX:86-513-87915598

TABLE OF CONTENTE

A.MODEL: TDA-B91CC6H230W30L80

B. SPECIFICATION

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

No.	Item	Specification	Condition
1	Dimension	¢91xH23mm	
2	Impedance	6±15%Ω	At 1KHz
3	Output Sound Pressure Level	105±3dB（3W，0.1M）	At 1 KHz
4	Response Frequency	500±20%Hz	参考 LMS 的阻抗曲线
5	Frequency Range	F0 ~ 20KHz	
6	Distortion	≤10%	At 1KHz
7	Power Rating	Normal: 3W Maximum4W	
8	Storage temperature	- 25 ~ + 70℃	
9	Operating temperature	- 25 ~ + 70℃	
9	Abnormal Sound test	Must be normal at sine wave 4.89@100~5KHz	
10	Polarity	When a positive current is supplied form the speaker the terminal marked （+） and a negative to the other terminal the diaphragm must move toward the front.	
11	RoHS	The Speaker is RoHS compliant.	

C.RELIABILTY TEST

No.	Item	Test conditions	Evaluation standard
1	Ordinary temp life	Room temperature sine wave F0-20KHz (4.25Vrms) input 96 hours frequency scanning speed 1.5s, and pink noise was set.At the end of the experiment,	the product was placed at room temperature for 2 hours, and then the abnormal sound frequency sweep and acoustic parameters were tested. Sinusoidal wave 4.25Vrms (F0-20KHz) sweeps without abnormal sound, F0 should meet the original specification requirements, and the output sound pressure variation is within ±3dB.
2	High temp life	Under the condition of high temperature +85℃, the frequency band F0-20KHz was set, and the sinusoidal wave signal of 10W(4.25Vrms) was input into the product for frequency scanning test. The frequency scanning speed was 1.5 seconds for 16 hours continuously. At the end of the experiment,	the product was placed at room temperature for 2 hours, and then the abnormal sound frequency sweep and acoustic parameters were tested. Sinusoidal wave 4.25Vrms (F0-20KHz) sweeps without abnormal sound, F0 should meet the original specifications, and the output sound pressure variation is within ±6dB.
3	Low temp life	Under the condition of low temperature -40℃, the frequency band F0-20kHz was set, and the sinusoidal wave signal of 10W(4.25Vrms) was input into the product for frequency scanning test. The frequency scanning speed was 1.5 seconds for 16 hours	continuously. At the end of the experiment, the product was placed at room temperature for 2 hours, and then the abnormal sound frequency sweep and acoustic parameters were tested. Sinusoidal wave 4.25Vrms (F0-20KHz) sweeps without abnormal sound, F0 should meet the original specifications, and the output sound pressure variation is within ±6dB.
4	Constant temp and humidity load test	Under the condition of constant temperature +40±2℃ relative humidity of 90%-95%RH, the frequency band F0-20KHz was set, and the sinusoidal wave signal of 10W(4.25Vrms) was input into the product for frequency sweep at a frequency speed of 1.5 seconds for 96 hours continuously.	At the end of the experiment, the product was placed at room temperature for 2 hours, and then the abnormal sound frequency sweep and acoustic parameters were tested. Sinusoidal wave 4.25Vrms (F0-20KHz) sweeps without abnormal sound, F0 should meet the original specifications, and the output sound pressure variation is within ±6dB.

5	High temp preservation test	The product was placed in an environment of +85℃ for 96 hours.	After the end of the experiment, the product was placed in room temperature for 2 hours and then tested for abnormal sound frequency sweep and acoustic parameters. Sinusoidal wave 4.25Vrms (F0-20KHz) sweeps without abnormal sound, F0 should meet the original specification requirements, and the output sound pressure variation is within ±3dB.4.6
6	Low temp preservation test	The product was placed in an environment of -40℃ for 96 hours.	After the end of the experiment, the product was placed in room temperature for 2 hours and then tested for abnormal sound frequency sweep and acoustic parameters. Sinusoidal wave 4.25Vrms (F0-20KHz) sweeps without abnormal sound, F0 should meet the original specification requirements, and the output sound pressure variation is within ±3dB.
7	Thermal shock test	The product is subjected to 5 times of temperature cycling impact, and the cycling content is as shown in the figure.	After the end of the experiment, the product is placed at room temperature for 2 hours, and then abnormal sound frequency sweep and acoustic parameters are tested. Sinusoidal wave4.25Vrms (F0-20KHz) sweeps without abnormal sound,F0 should meet the original specifications, and the output sound pressure variation is within ±6dB.
8	Drop test	Free fall on concrete 1m high with angle 75° for 1 time.	After the test, there is no separation, deformation, clearance or cracking in part of the product. The sinusoid wave sweeps 4.25Vrms (F0-20KHz) without abnormal sound. F0 should meet the original specifications and the variation of output sound pressure is within ±3dB.

E. 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 :3W

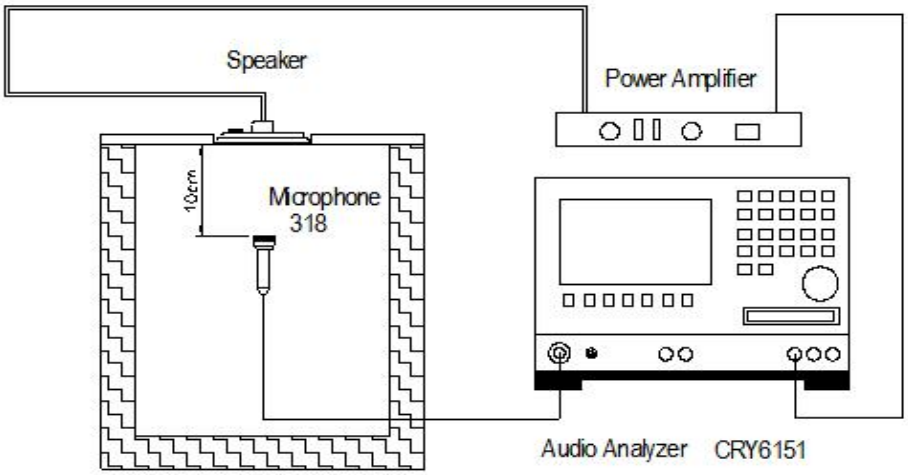
2.Zero Level : -dB

3.Mode : TSR

4.potentiometer Range : 50dB

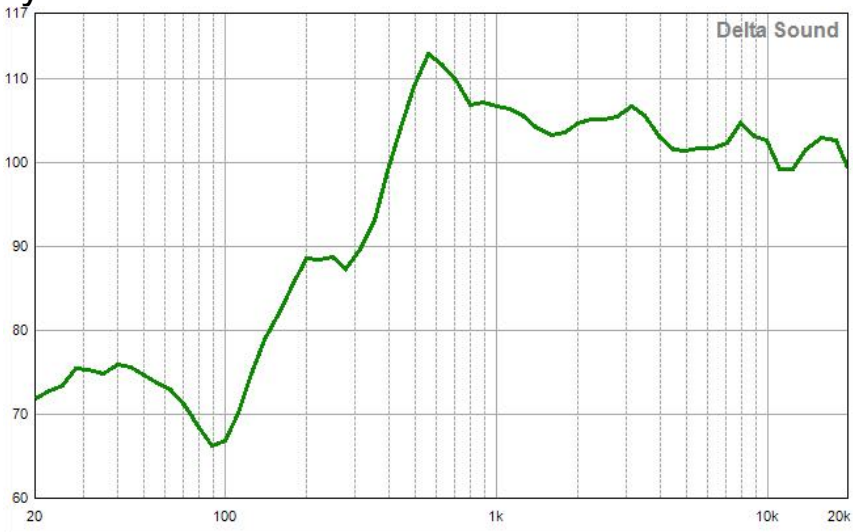
5.Sweep Time : 0.5sec

Standard test condition of speaker

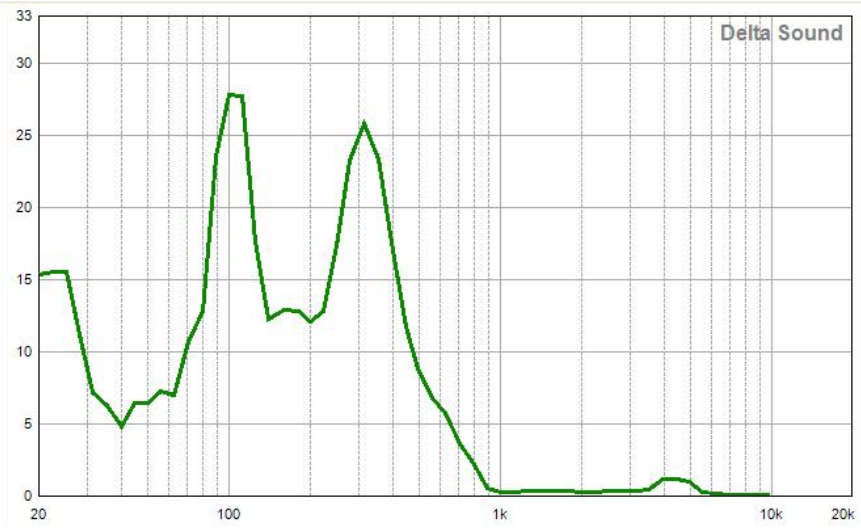


F.FREQUENCY CURVE

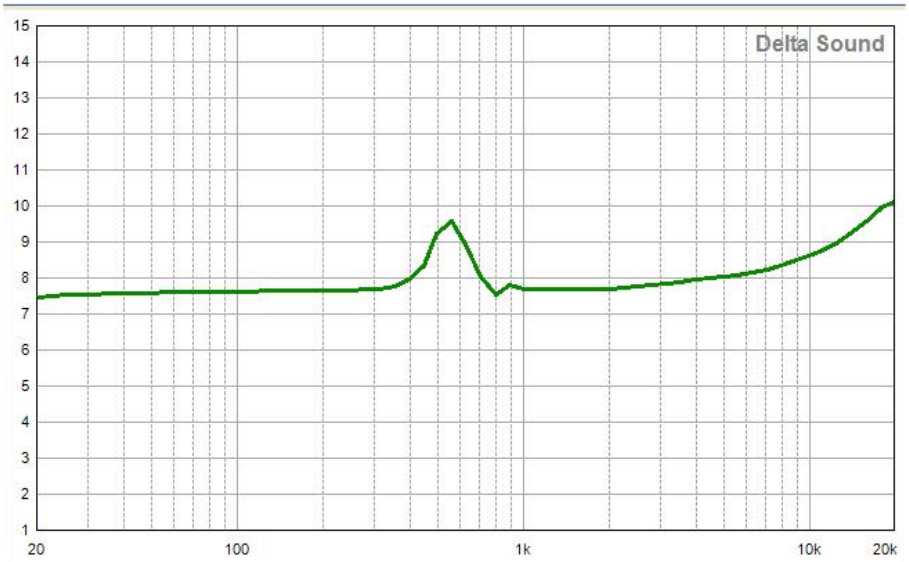
（1）frequency curve



（2）distortion curve

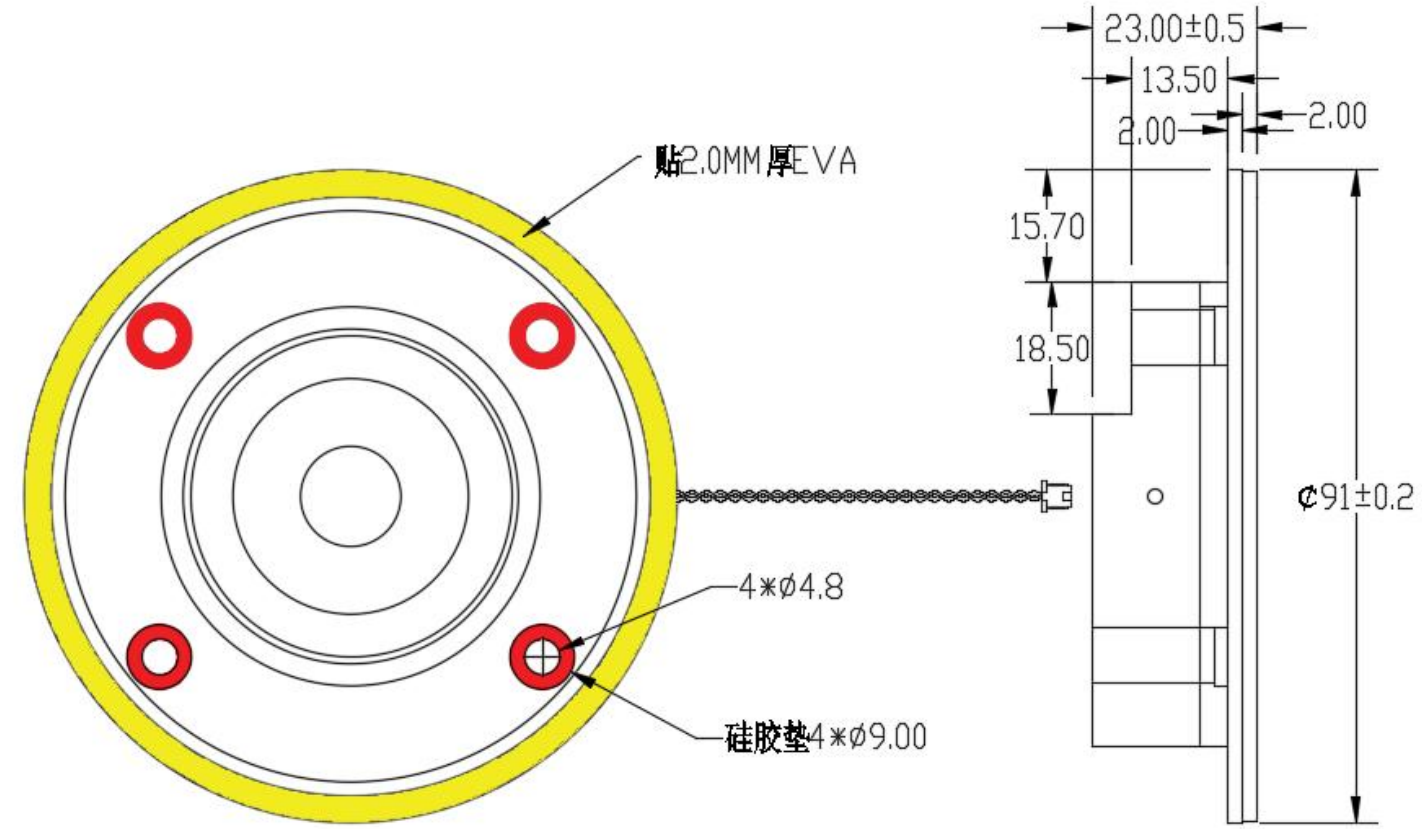


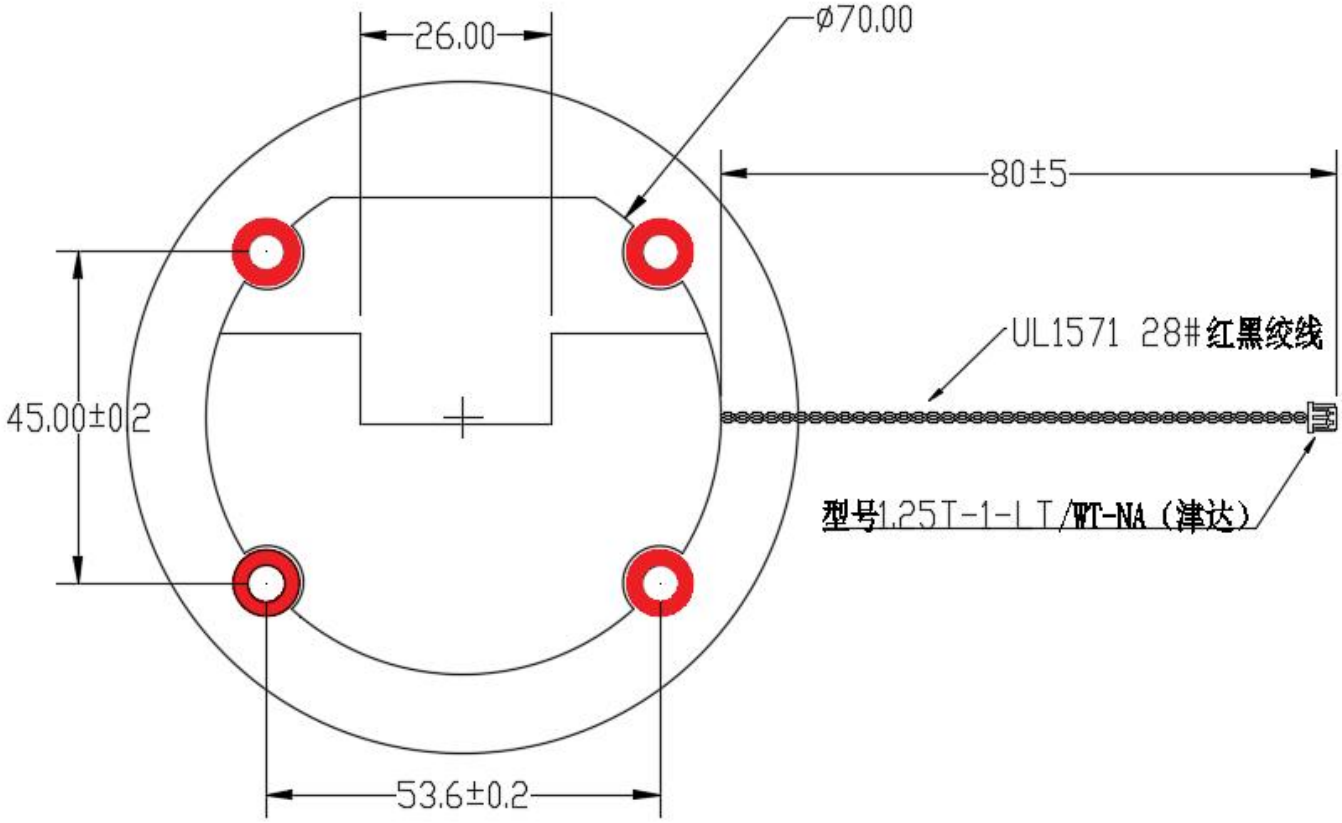
（3）Impedance curve

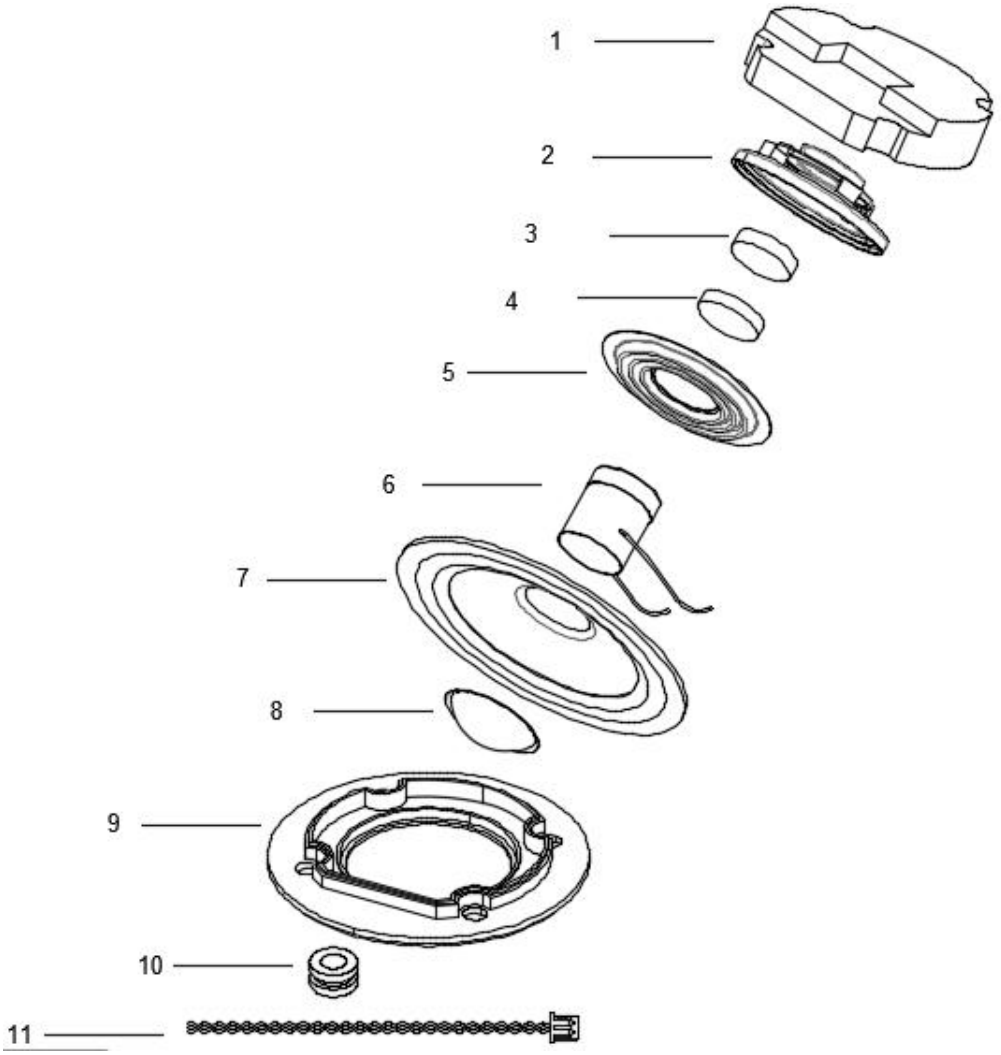


G.APPEARANCE DRAWING

Unit:mm Tolerance : ±0.5mm







No.	Name	specifications	quantity
1	Lower housing	ABS	1
2	Frame	ABS	1
3	Magnet	NdFeB	1
4	Plate	Spcc	1
5	Damper	CONEX	1
6	Voice coil	KAPTON0.075t+PESVW0.10t	1
7	Waterproof	Paper+Rubber	1
8	Dust cap	Paper	1
9	Upper housing	ABS	1
10	Silicone pad	Silica gel	4
11	Leadwire	UL1571 28#+NYLON	1

H. PACKING DRAWING

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	Nov.1.2023	Initial condition	TDA-B91CC6H1230W30L80	V2.0