

# 请承认书

Version No.: <u>V2.0</u>

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		
COMMODIT	·	Speaker box	
产品型	号		
MODEL NO	:	TDA-B5035CC4U	23
客户料	号		
PART NO	:		
			1
审核	秦皓	主 办	唐俐雅 Aug.28,2019

	客	户	承	认	栏	
承	认				拒	收

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# A. MODEL: TDA-B5035CC4U23

# **B. SPECIFICATION**

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

No.	Item	Specification	Condition		
1	Dimension	50x35xH23mm			
2	Impedance	4±15%Ω			
3	Unitout Sound Pressure Level 90 30B(U IVVAII U IVVEIEL)		At 0.8, 1.0, 1.2, 2.0KHz in average		
4	Response Frequency	300±20% Hz			
5	Frequency Range	F0~20KHZ	Average SPL -10dB		
6	Distortion	≤5%	At 0.1W ,0.1M		
7	Power Rating	Normal: 2.5W Maximum: 3W	Sine wave		
8	Operating temperature	Operating temperature - 20 ~ + 60 °C			
9	Storage temperature	- 20 ~ + 60 ℃			
10	Abnormal Sound test	Must be Normal Tested By 3.16V. Sine W	. Sine Wave at F0~3KHz /3 second.		
11	Weight	23g			
12	Polarity	Diaphragm shall move Forward while Apply a Positive DC Signal to the "or "Marked" Terminal.			
13	RoHS	The Speaker is RoHS compliant.			

### **C.ENVIRONMENT TEST**

No.	Item	Condition	<b>Evaluation standard</b>		
1	High Temperature	After being placed in a chamber at +60 ±2℃ for 96 hours			
2	Low Temperature	After being placed in a chamber at -20 $\pm$ 2 $^{\circ}$ for 96 hours.			
3	Humidity	After being placed in a chamber at +40 2 °C and 90~95%(RH) Relative Humidity for 96 hours.			
4	Heat shock test	-20°C   -20°C   30s	Being placed for 4 hours at room temperature, speaker shall be measured. SPL should not deviate by ± 5 dB.and nor any		
5	Temperature Cycle test	The part shall be subjected to 5 cycles. One cycle shall be consist of: $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	± 5 dB,and nor any significant damage.		

### D. MECHANICAL CHARACTERISTICS

No.	ltem	Test condition	Evaluation standard
1	Drop Test	Mounted with dummy set mass:100g Height:70cm Cycle:6(each plain) onto concrete board	SPL shall not deviate by ±5 dB from pre-test measurement, and nor any significant damage.

### **E.RELIABILTY TEST**

No.	ltem	Test conditions	Evaluation standard
1	Load test	Pink noise with HPF 3.16V 96 Hours.	After test, SPL shall not deviate by ±5dB from pre-test measurement, and nor any significant damage .

# F. MEASURING METHOD(SPEAKER MODE)

F-1.Test Condition

(a)STANDARD:

Temperature : 15 ~ 35 °C, Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar

(b)JUDGEMENT:

Temperature :  $20\pm3^{\circ}$ °C, Relative humidity :  $60\% \sim 70\%$ ,

Atmospheric pressure: 860mbar to 1060mbar

F-2.Standard Test Fixture

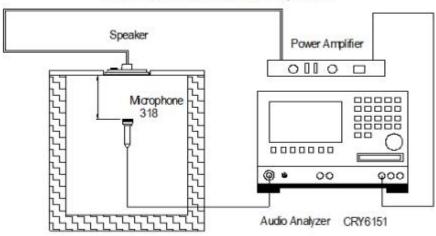
1.Input Power :0.1W 2.Zero Level : -dB

3.Mode: TSR

4.potentiometer Range: 50dB

5.Sweep Time: 0.5sec

### Standard test condition of speaker

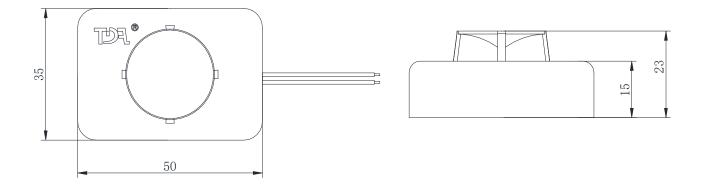


## **G.FREQUENCY CURVE** Delta Sound 20k Delta Sound 10k 20k Delta Sound

10k

20k

#### 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	Aug.28,2019	Initial condition	TDA-B5035CC4U23	V2.0