



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 NAMED : \_\_\_\_\_

产品名称

COMMODITY : Speaker

产品型号

MODEL NO : TDA-1511KS8KI30

客户料号

PART NO : \_\_\_\_\_

审核	秦皓	主办	唐俐雅 Jul.30,2018
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客户承认栏			
承认		拒收	

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# A. MODEL: TDA-1511KS8KI30

## B. SPECIFICATION

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

No.	Item	Specification	Condition
1	Dimension	15x11xH3.0mm	
2	Impedance	$8 \pm 15\% \Omega$	At 2KHz, 1V without baffle
3	Output Sound Pressure Level	$82 \pm 3\text{dB} (0.1\text{Watt} / 0.1\text{Meter})$	At 0.7,0.8, 1.0, 1.5, 2.0KHz in average (0dB SPL=20μPa)
		$90 \pm 3\text{dB} (0.5\text{Watt} / 0.1\text{Meter})$	At 0.7,0.8, 1.0, 1.5, 2.0KHz in average (0dB SPL=20μPa)
4	Response Frequency	$600 \pm 20\% \text{Hz}$	At 1V in free air
		$880 \pm 20\% \text{Hz}$	At 1V in 1cc box
5	Frequency Range	300 ~ 5KHz	
6	Distortion	$\leq 10\%$	At 1KHz, 0.1M, 0.1W
7	Power Rating	Normal:0.5W Maximum:0.8W	In 1cc box
8	Operating temperature	- 20 ~ + 60°C	
9	Storage temperature	- 20 ~ + 60°C	
10	Abnormal Sound test	Must be Normal Tested By 2.0Vrms	In 1cc box
11	RoHS	The Speaker is RoHS compliant.	

## C. ENVIRONMENT TEST

No.	Item	Condition	Evaluation standard
1	High Temperature	After being placed in a chamber at $+60 \pm 2^\circ\text{C}$ for 96 hours	Being placed for 4 hours at room temperature, speaker shall be measured. SPL should not deviate by $\pm 3 \text{ dB}$ , and nor any significant damage.
2	Low Temperature	After being placed in a chamber at $-20 \pm 2^\circ\text{C}$ for 96 hours.	
3	Humidity	After being placed in a chamber at $+40 \pm 2^\circ\text{C}$ and 90~95%(RH) Relative Humidity for 96 hours.	
4	Heat shock test	The part shall be subjected to 100 cycles. One cycle shall be consist of:	
5	Temperature Cycle test	The part shall be subjected to 25 cycles. One cycle shall be consist of:	

## D. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard
1	Drop Test	Mounted with dummy set mass:100g Height :1.5m Cycle:6(each plain) onto concrete board	SPL shall not deviate by $\pm 3$ dB from pre-test measurement, and nor any significant damage.

## E.RELIABILTY TEST

No.	Item	Test conditions	Evaluation standard
1	Load test	0.5W white noise(EIA filter) is applied for 96hours.	After test, SPL shall not deviate by $\pm 3$ dB from pre-test measurement,and nor any significant damage .

## F. MEASURING METHOD(SPEAKER MODE)

### F-1.Test Condition

#### (a)STANDARD:

Temperature : 15 ~ 35℃, Relative humidity : 45% ~ 85%,  
Atmospheric pressure : 860mbar to 1060mbar

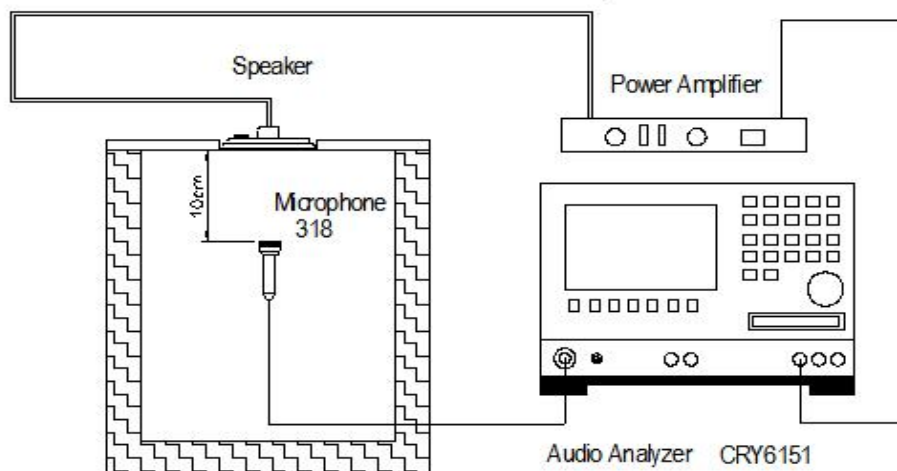
#### (b)JUDGEMENT:

Temperature :  $20 \pm 3$ ℃, Relative humidity : 60% ~ 70%,  
Atmospheric pressure : 860mbar to 1060mbar

### F-2.Standard Test Fixture

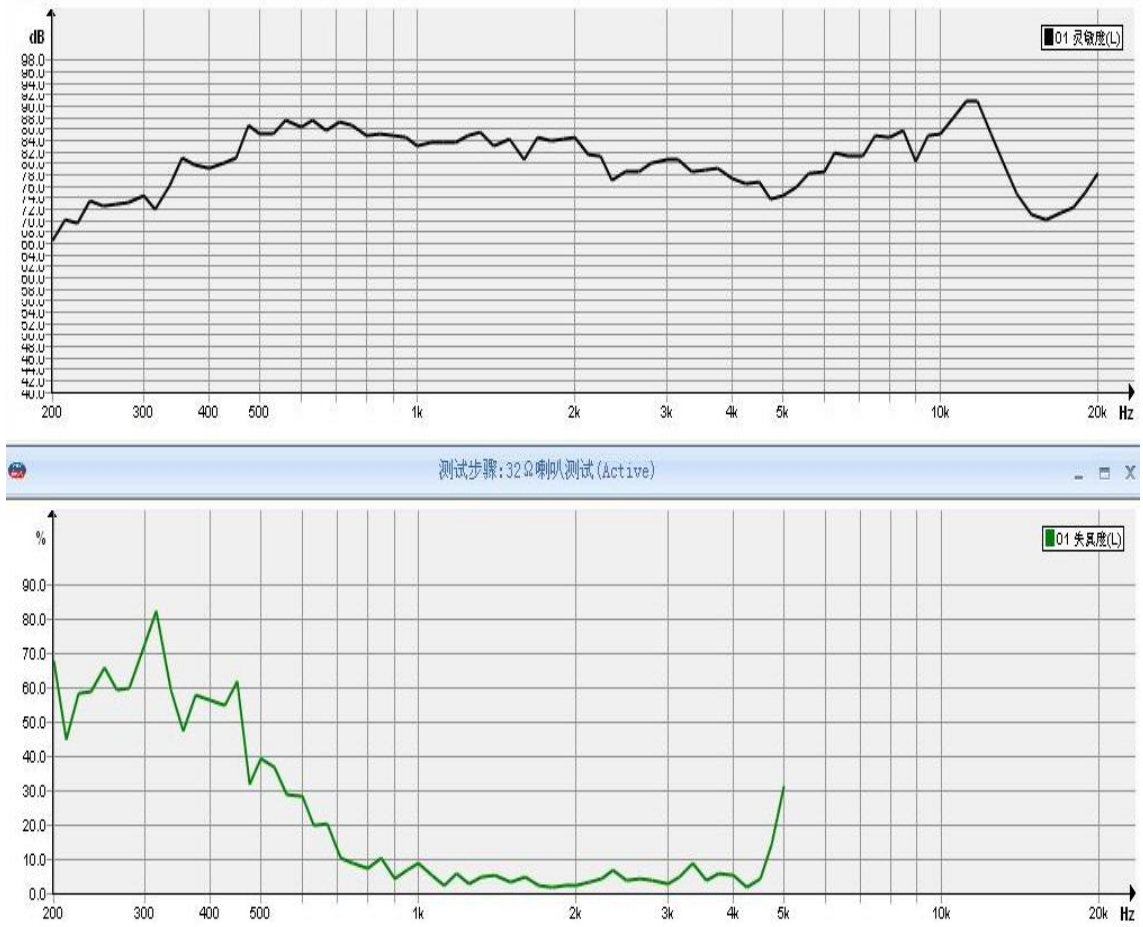
- 1.Input Power :0.1W(0.89V)
- 2.Zero Level : -dB
- 3.Mode : TSR
- 4.potentiometer Range : 50dB
- 5.Sweep Time : 0.5sec

Standard test condition of speaker

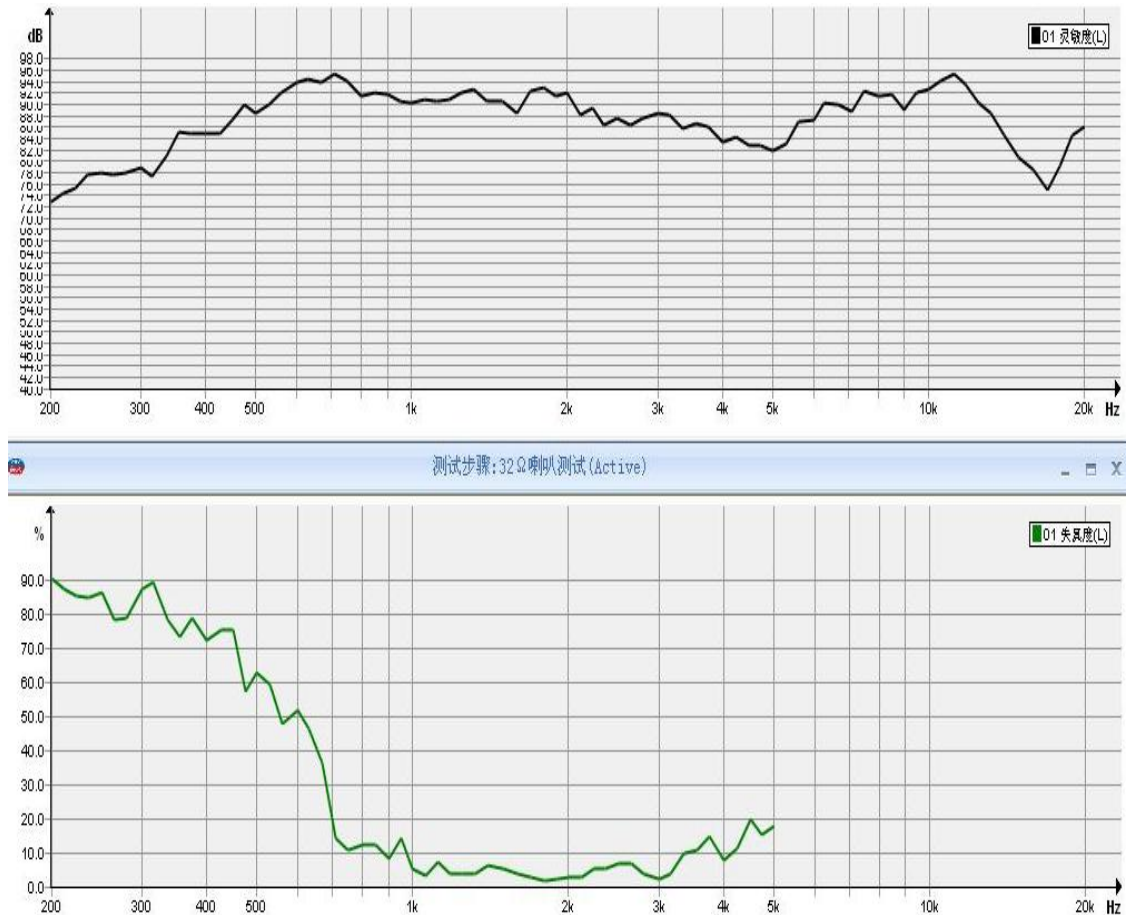


# G. FREQUENCY CURVE

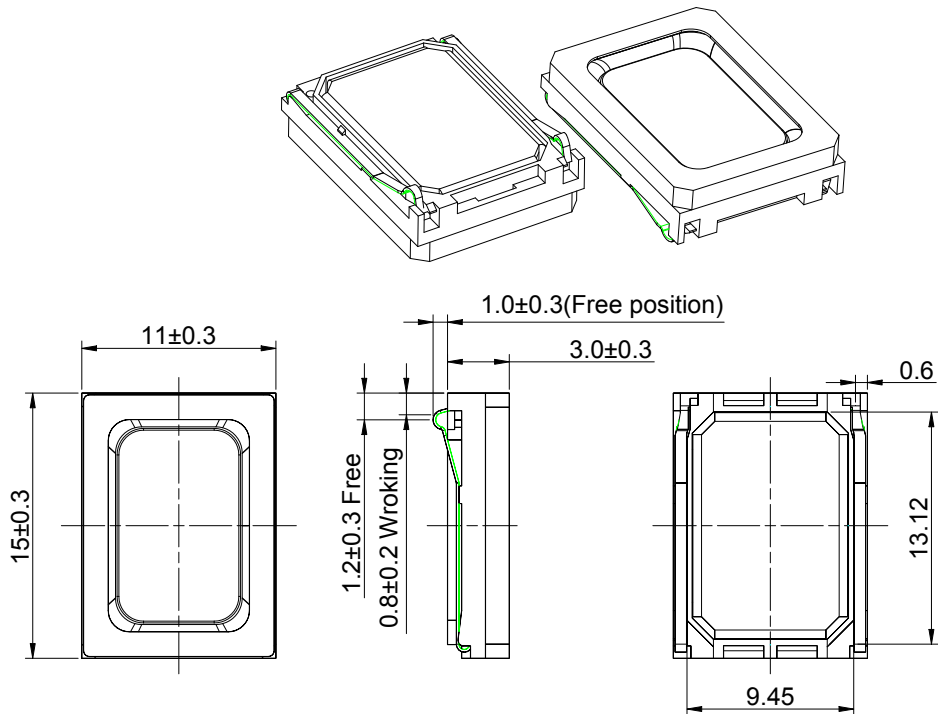
(1) 0.1W/10cm, in free air



(2) 0.5W/10cm, in free air



## H. APPEARANCE DRAWING



Unit:mm Tolerance :  $\pm 0.5$ mm

## I. PACKING STANDARD

