



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 : <u>Speaker</u>
产品型号
MODEL NO : <u>TDA-1609KE8KI30</u>
客户料号
PART NO : _____

审核	秦皓	主办	唐俐雅 Nov.23,2018
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客户承认栏			
承认		拒收	

常州昊翔电子有限公司

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A. MODEL: TDA-1609KE8KI30

B. SPECIFICATION

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

No.	Item	Specification	Condition
1	Dimension	16x9xH3.0mm	
2	Impedance	$8 \pm 15\% \Omega$	At 2KHz, 1V without baffle
3	Output Sound Pressure Level	$82 \pm 3\text{dB}$ (0.5Watt / 0.1Meter)	At 0.6, 0.8, 1.0, 1.5, 2.0KHz(1cc closed box) in average (0dB SPL=20 μ Pa)
4	Response Frequency	$670 \pm 20\% \text{Hz}$	At 1V in free air
		$900 \pm 20\% \text{Hz}$	At 1V in 1cc closed box
5	Frequency Range	300 ~ 5KHz	
6	Distortion	$\leq 10\%$	At 1KHz, 0.1M, 0.1W
7	Power Rating	0.5W	Rated Noise Power(in 1cc closed box)
		0.8W	Short Term Maximum Power(in 1cc closed box)
8	Operating temperature	- 20 ~ + 60°C	
9	Abnormal Sound test	Must be Normal Tested By 2.0Vrms	In 1cc box
10	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 ± 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 ± 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

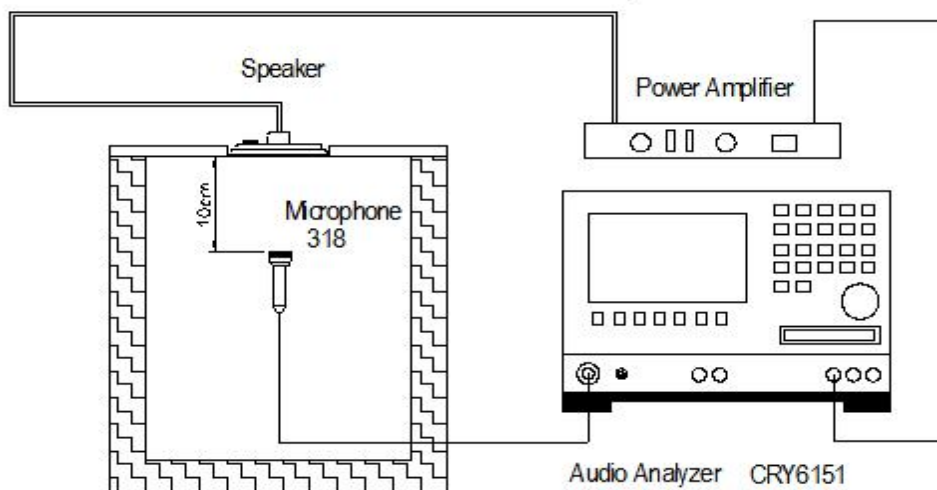
(b)JUDGEMENT:

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

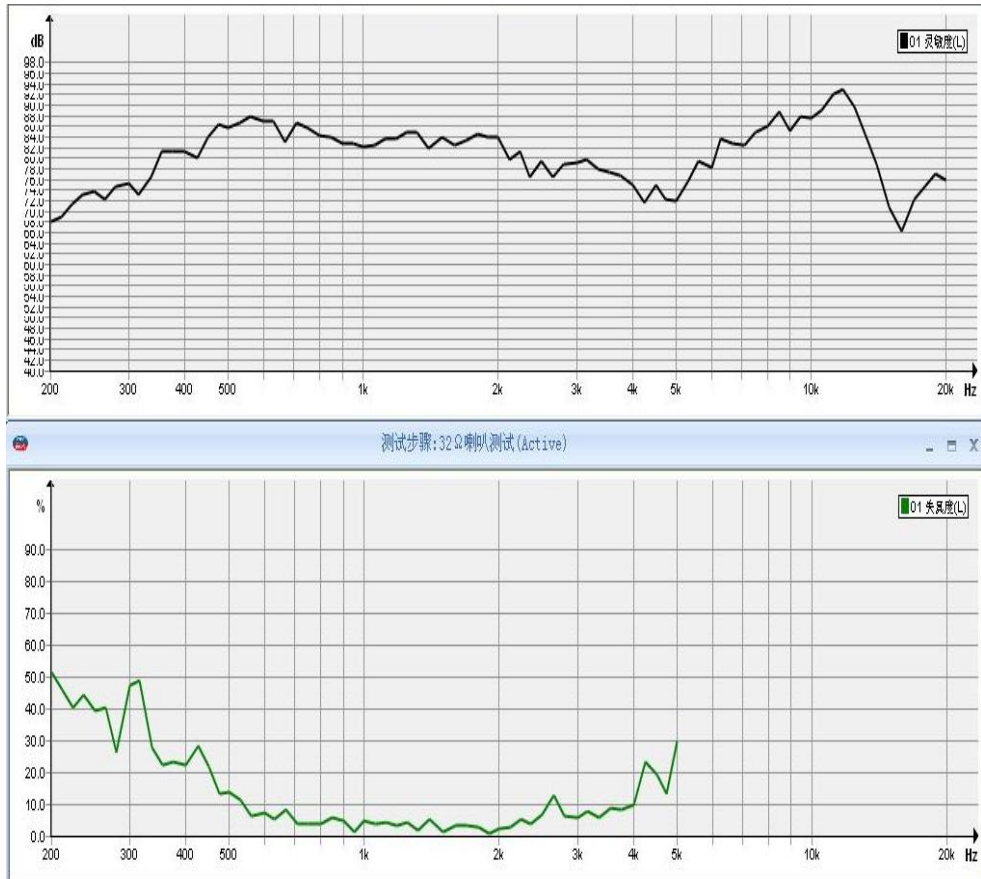
F-2.Standard Test Fixture

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

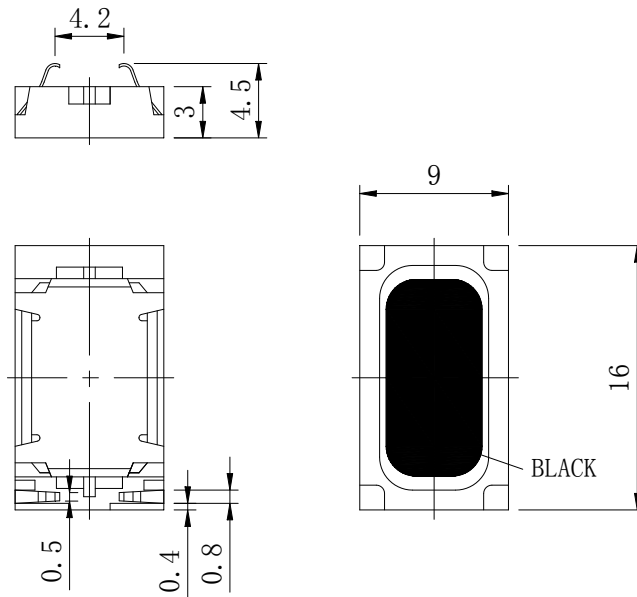
Standard test condition of speaker



G.FREQUENCY CURVE

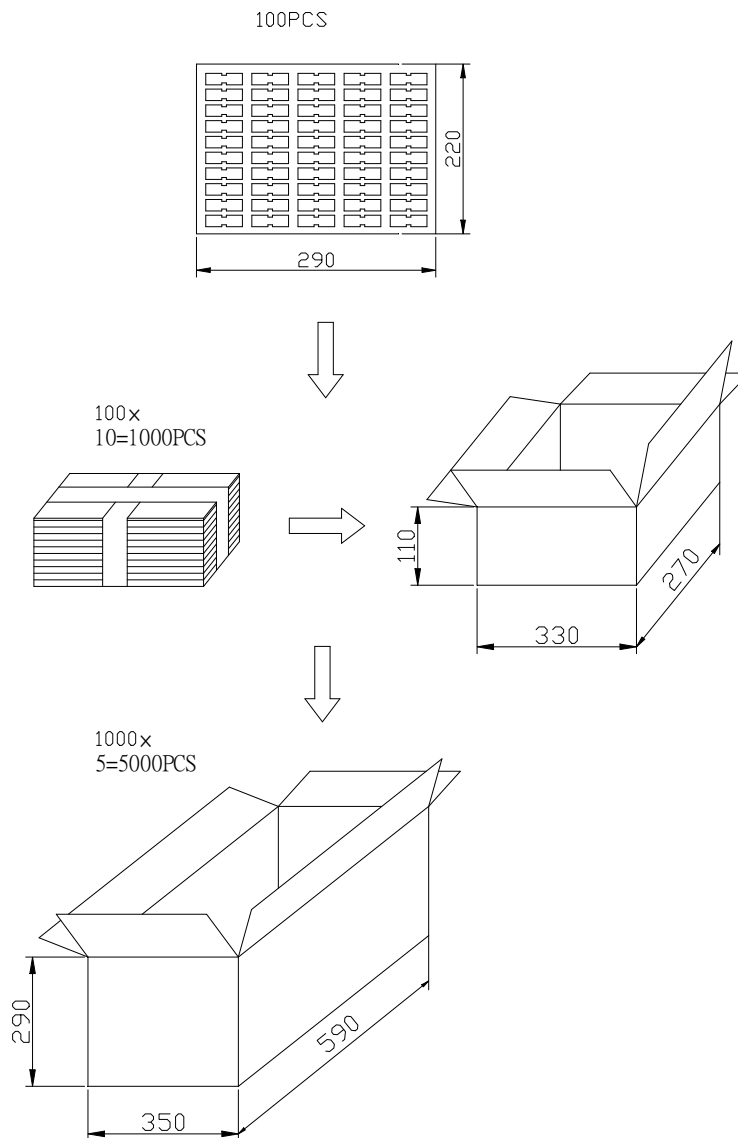


H.APPEARANCE DRAWING



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

I. PACKING STANDARD



J. 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 6 months), 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.

