

请承认书

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

常州	昊 翔 电	子 有 限	公 司
Changzho	u <i>HaoXiang</i>	Electronic	Co., LTD
客户名	名 称		
CUSTOME	R NAMER :		
产品名	名 称		
COMMODI	:	Speaker	
产品型	型 号		
MODEL NO	:	TDA-1511KC8N33	3
客户料	号		
PART NO	:		
审核	秦皓	上 办	唐俐雅 Jul.28,2018

	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-1511KC8KN33

B. SPECIFICATION

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

No.	Item	Specification	Condition
1	Dimension	15x11xH3.3mm	
2	Impedance	8±15%Ω	At 2KHz,1V without baffler
3	Output Sound Pressure Level	83 ± 3dB(0.1Watt / 0.1Meter)	At 1.0,1.2, 1.5, 2.0KHz in average (0dB SPL=20µPa)
4	Response Frequency	1200±20%Hz	At 1V(Without Baffler)
5	Frequency Range	300 ~ 8KHz	
6	Distortion	≤10%	At 1KHz,0.1M,0.1W
7	Power Rating	Normal: 0.5W Maximum: 0.8W	must be normal at a white noise (1W,F0-20KHz) for one minute
8	Operating temperature	- 20 ~ + 60℃	
9	Storage temperature	- 20 ~ + 60℃	
10	Abnormal Sound test	Must be Normal Tested By 2.0Vrms	
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 $^{\circ}$ 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 \pm 2 $^{\circ}\mathrm{C}$ and 90~95%(RH) Relative Humidity for 96 hours.	
4	Heat shock test	-20°C -20°C 30s 1h 30s 30s	Being placed for 4 hours at room temperature, speaker shall be measured. SPL should not deviate by ± 3 dB,and nor any
5	Temperature Cycle test	The part shall be subjected to 25 cycles. One cycle shall be consist of: $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	significant damage.

D. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard
	Mounted with dummy set mass:100g Height :1.5m Cycle:6(each plain) onto concrete board	Mounted with dummy set mass:100g	SPL shall not deviate by
1			±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 : $15 \sim 35^{\circ}$ °C, Relative humidity : $45\% \sim 85\%$,

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(0.89V)

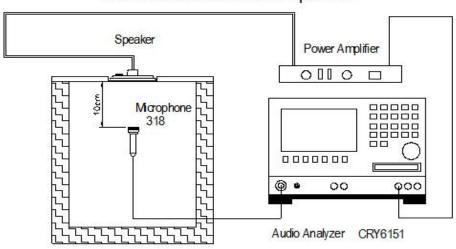
2.Zero Level: -dB

3.Mode: TSR

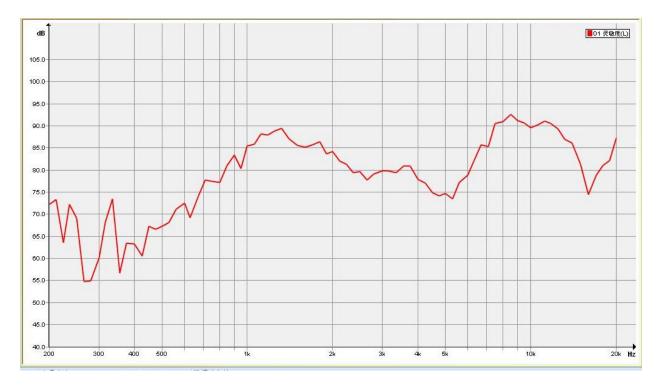
4.potentiometer Range: 50dB

5.Sweep Time: 0.5sec

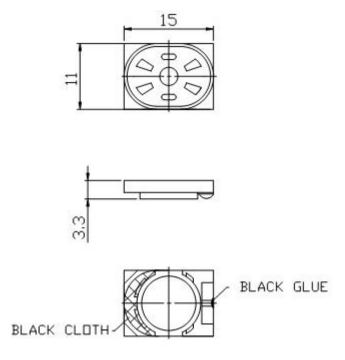
Standard test condition of speaker



G.FREQUENCY CURVE



H.APPEARANCE DRAWING



Unit:mm Tolerance : ± 0.5 mm

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	Jul.28,2018	Initial condition	TDA-1511KC8N33	V2.0