



SPECIFICATION

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 : BOX Speaker

产品型号

MODEL NO : TDA-B30CC16I125W8

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

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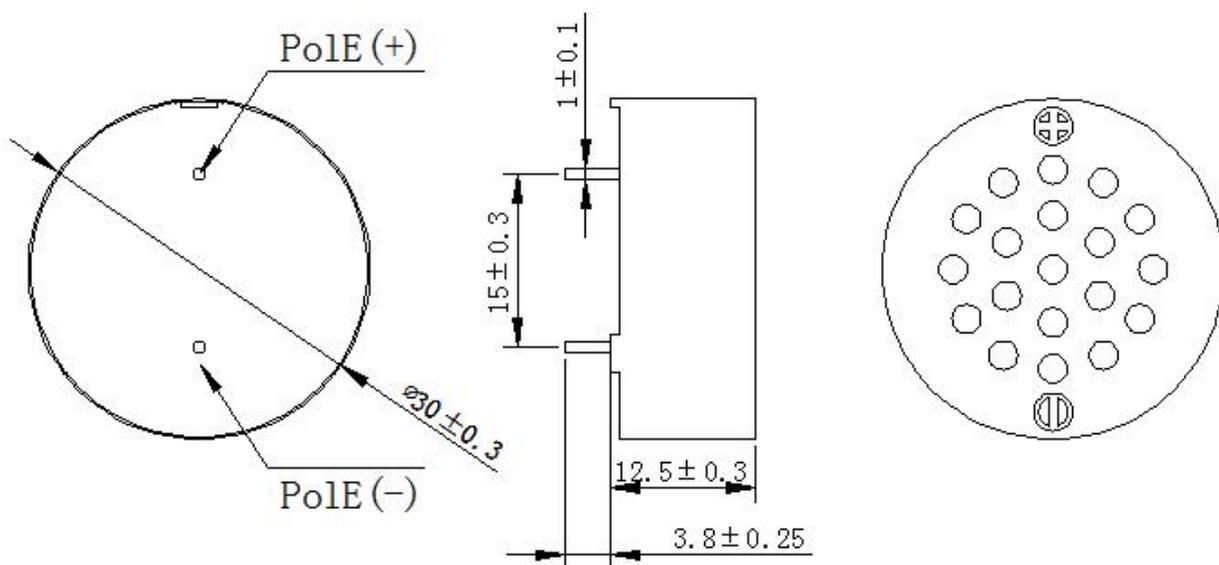
A. MODEL: TDA-B30CC16I125W8

B. SPECIFICATION

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

No.	Item	Specification	Condition
1	Dimension	Φ30 x H12.5mm	
2	Impedance	16±20%Ω	At 2KHz
3	Output Sound Pressure Level	84±3dB 720Hz 86±3dB 750Hz 93±3dB 900Hz 98±3dB 1000Hz 97±3dB 1600Hz 96±3dB 1900Hz 96±3dB 2000Hz	(0.1M,0.15W)
4	Response Frequency	1200±20%Hz	
5	Frequency Range	1000~ 5000Hz	
6	Power Rating	Normal: 0.8Watts Maximum: 1 Watts	
7	Distortion	10% Max	At 1.0KHz 0.15W/0.1M
8	Operating temperature	-40 ~ + 85°C 10 ~ 90%RH	
9	Storage Temperature	-40 ~ + 85°C 8 ~ 90%RH	
10	Abnormal Sound test	Must be Normal Tested By 3.58Volts. Sine Wave at 60~3KHz /3 second.	
11	Polarity	When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphragm shall move forward	
12	RoHS	The Speaker is RoHS compliant.	

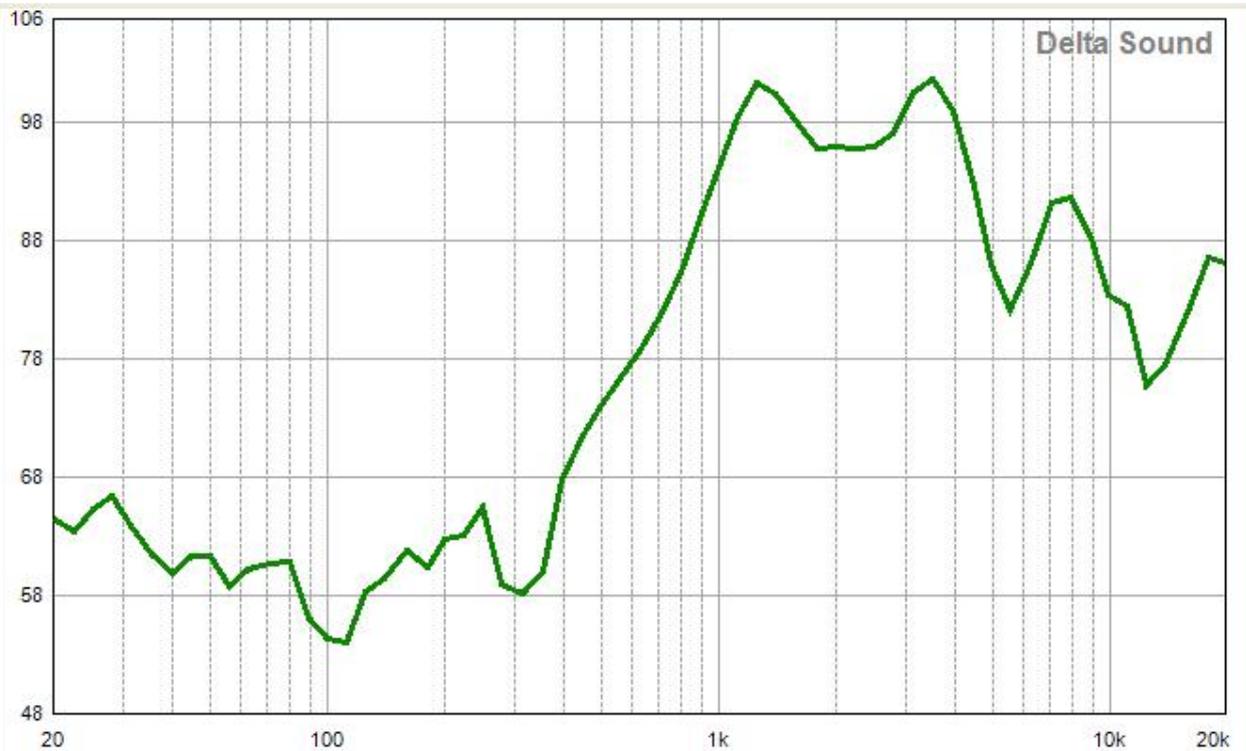
C. APPEARANCE DRAWING



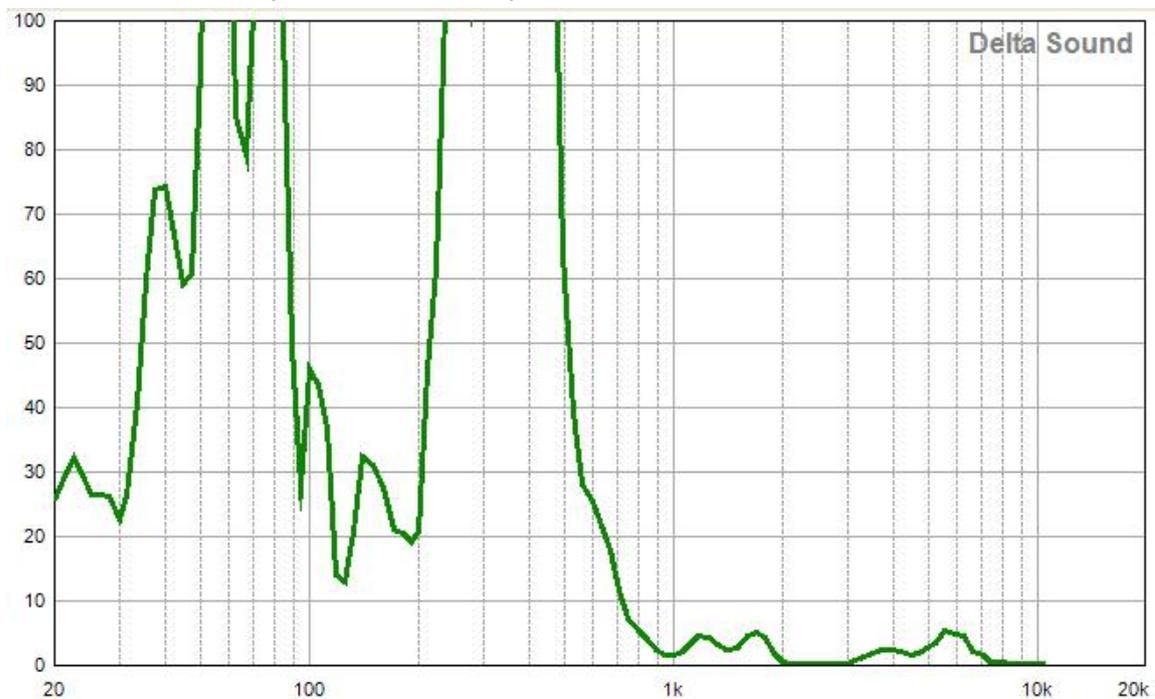
Unit: mm Tolerance : ± 0.5mm

D. FREQUENCY RESPONSE

(1) frequency curve



(2) distortion curve(0.1m/0.15W)



E. MEASURING METHOD(SPEAKER MODE)

E-1. Test Condition

(a) STANDARD:

Temperature : 17 ~ 25°C, Relative humidity : 45% ~ 80%,

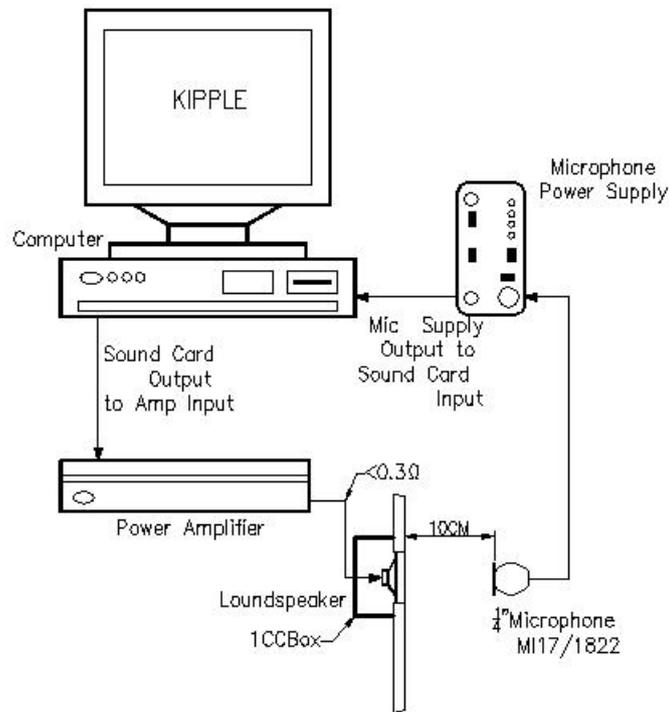
Atmospheric pressure : 860mbar to 1060mbar

(b) JUDGEMENT:

Temperature : $20 \pm 3^{\circ}\text{C}$, Relative humidity : 60% ~ 70%,
 Atmospheric pressure : 860mbar to 1060mbar

E-2. Standard Test Fixture

1. Input Power : 0.15W(1.55 V)
2. Zero Level : -dB
3. Mode : SPEAKER
4. potentiometer Range : 50dB
5. Sweep Time : 0.5sec



F. RELIABILITY TEST

No.	Item	Condition	Evaluation standard
1	High temp. storage life	Precondition at $+25^{\circ}\text{C}$ for 1 hour. Then expose to $+85^{\circ}\text{C}$,duration 24 hours	Being placed for 4 hours at room temperature, speaker shall be measured. SPL should not deviate by 3 dB, and nor any significant damage.
2	Low temp storage life	Precondition at $+25^{\circ}\text{C}$ for 1 hour. Then expose to -40°C ,duration 24 hours	
3	Temp. Cycle	Each temperature cycle shall consist of 1 hours. The cycle starts with room temperature, which will be increased to 85°C within 1 minute. This temperature of 85°C with be kept for 0.5 hours. Then temperature shall be decreased to -40°C within 1minute. This temperature of -40°C shall also be kept for another 0.5 hours. This test duration is for 10 cycles.	
4	Humidity Test	After being placed in a chamber at $40 \pm 2^{\circ}\text{C}$ and 90~95%(RH) Relative Humidity for 48 hours.	
5	Vibration Test	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.	
6	Drop Test	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.	

7	Load test	White noise with HPF 3.57 Volts. 96 Hours.	After the test part shall meet specifications without any degradation in appearance and performance.
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G. 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.

H. REVISION

No.	DATE	DESCRIPTION	REMARK	VERSION
1	Nov.1,2023	Initial condition	TDA-B30CC16I125W8	V2.0
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