



SPECIFICATION

Version No. : V2.1

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-30CC16T13W08

客户料号

PART NO : _____

审核

秦皓

主办

Dec.26,2020

客户承认栏

承认

拒收

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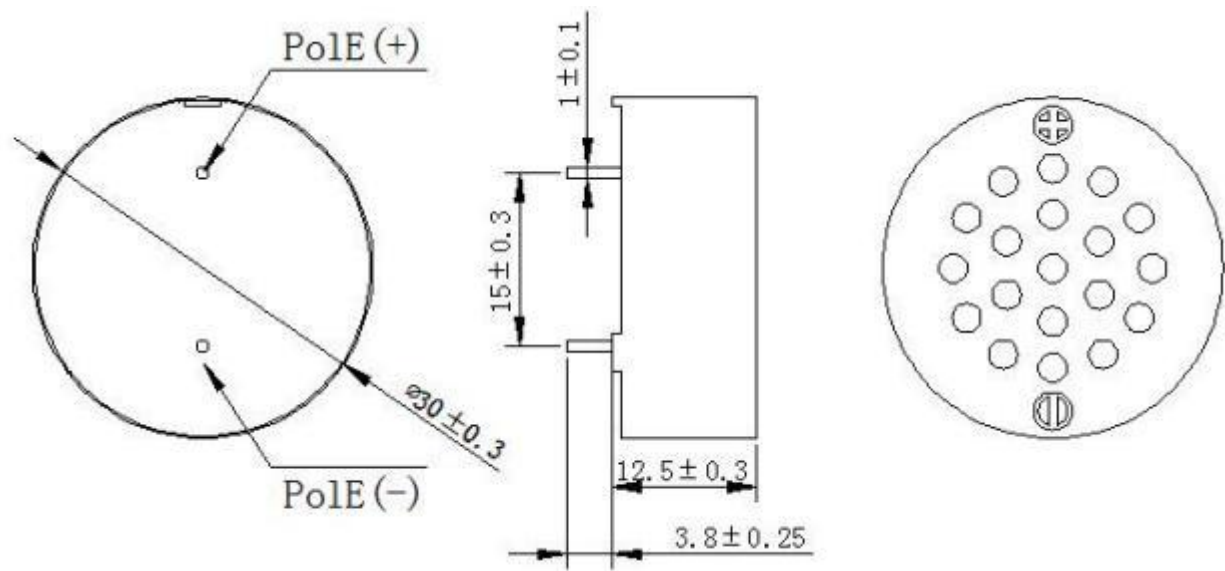
A. MODEL: TDA-30CC16T13W08

B. SPECIFICATION

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

No.	Item	Specification	Condition
1	Dimension	Φ30 x H12.8mm	
2	Impedance	16± 10%Ω	
3	Output Sound Pressure Level	90±3dB(0. 1M,0. 15W)	At 2KHz
4	Response Frequency	1200±20%Hz	
5	Frequency Range	1000~ 5000Hz	
6	Power Rating	Normal: 0.8 Watts Maximum: 1 Watts	
7	Distortion	10% Max	At 1.0KHz 0. 15W/0. 1M
8	Operating temperature	-40 ~ + 85℃ 10 ~ 90%RH	
9	Storage Temperature	-40 ~ + 85℃ 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.	

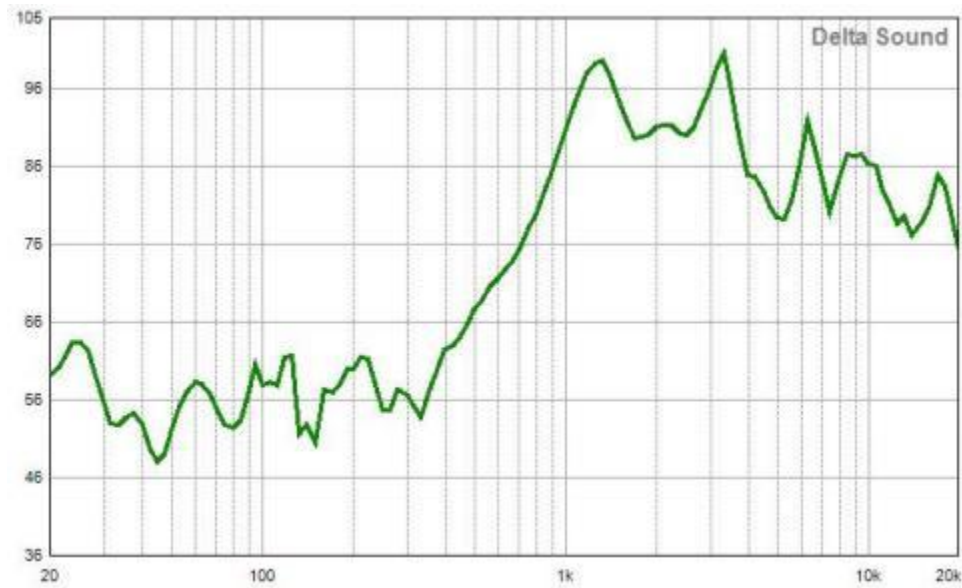
C. APPEARANCE DRAWING



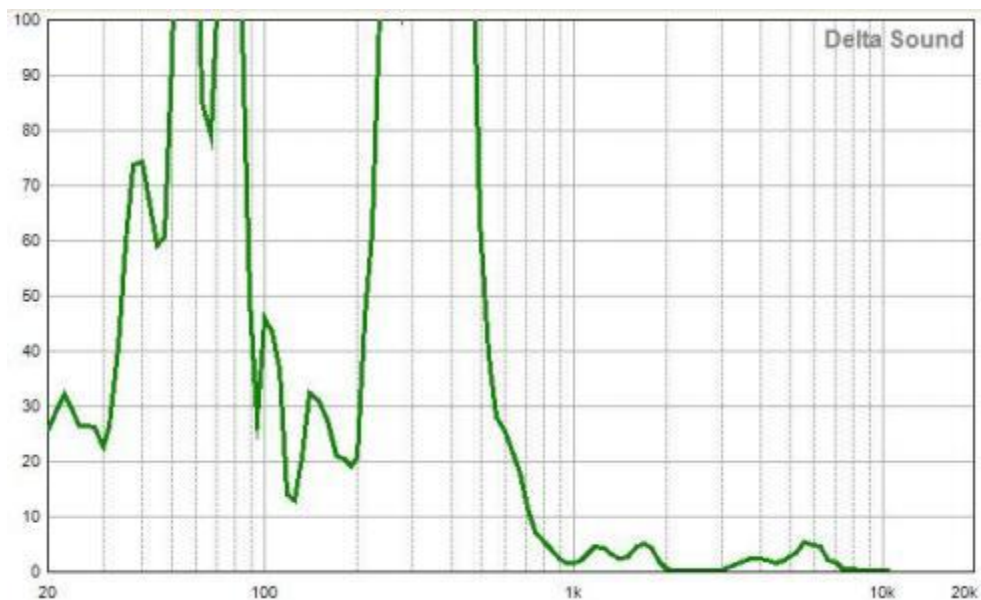
Unit: mm Tolerance : ± 0.5mm

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℃, 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

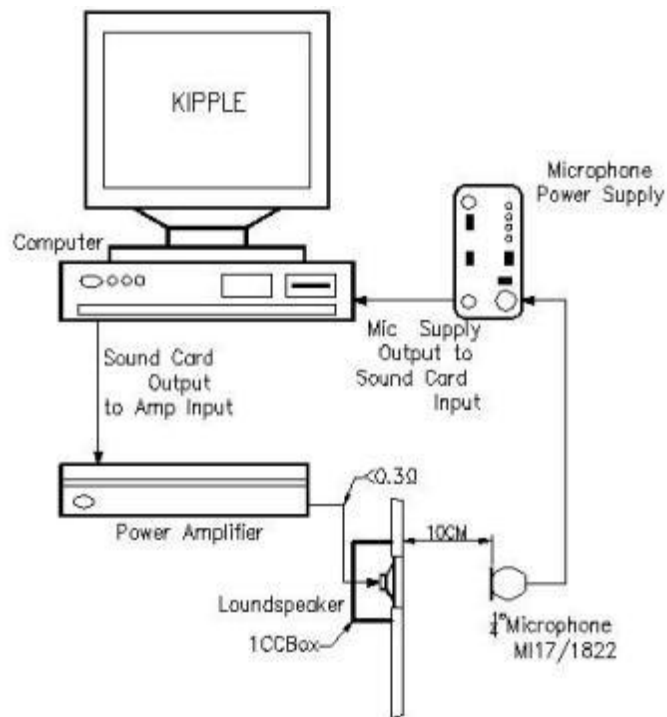
1.Input Power :0. 15W(1.55 V)

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℃ for 1 hour. Then expose to +85℃ ,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℃ for 1 hour. Then expose to -40℃ ,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℃ within 1 minute. This temperature of 85℃ with be kept for 0.5 hours. Then temperature shall be decreased to -40℃ within 1 minute. This temperature of -40℃ 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 ± 2 ℃ 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.

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 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.

H. REVISION

[illegible]