

DYNAMIC SPEAKER

BTD33-12-04H12-01

Product No. 139533

Issue No. BS/TES01.2142



Features:

- Large power
- Loud sound output
- RoHS

Drawn by	Checked by	Approved by	Customer approved
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1.Characteristics

1.1Technical terms

1. Size See Product drawing

2. Impedance at 1KHz $4\Omega \pm 15\%$

3. Lowest Resonance frequency 350±20%Hz

4. Rated input power 5W

5. Maximum input power 6W

6. Frequency Response 200~20KHz

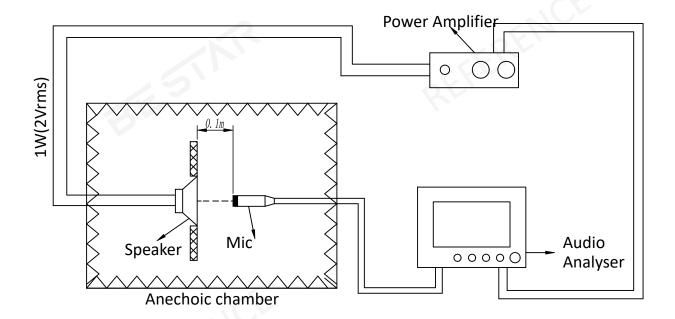
7. Buzz & Rattle(at sine wave 4.47V) must be normal

8. Polarity Positive voltage to (+), Diaphragm moves forward

10. Storage temperature -40...+85 °C

11.Weight ≈27g

1.2 Test method:



1.3 F0 Curve (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μPa/V 1/12Oct



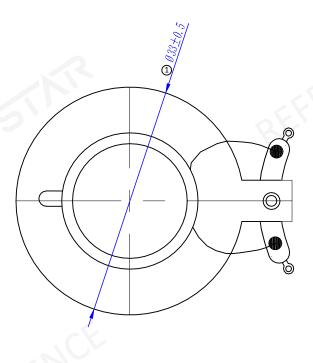
1.3.1 Resonance Frequency

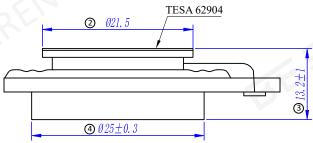
Resonance frequency is measured according test set up in chapter 1.2 and parameters according chapter 1.3

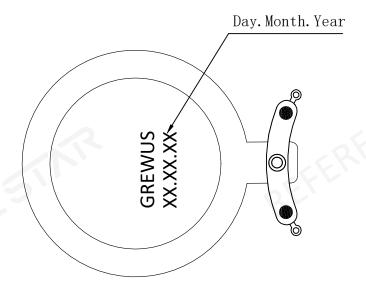


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2. Dimension







Tolerance:±0.3mm

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3. Reliability test

3.1 Load Test

Power (Nom) 4.47V(white noise)

Duration 96hrs

3.2 High Temperature Test

Temperature +85±2°C

Duration 96hrs

3.3 Low Temperature Test

Temperature -40±2°C

Duration 96hrs

3.4 Damp Heat

Temperature 40±2°C

Relative Humidity 90%-95%RH

Duration 96hrs

3.5 Drop Test

Height 75cm

Drop face free falling on concrete floor

Times 10 times

3.6 Vibration Test

Amplitude: 10~50Hz X,Y,Z 3 driections 24 hours each

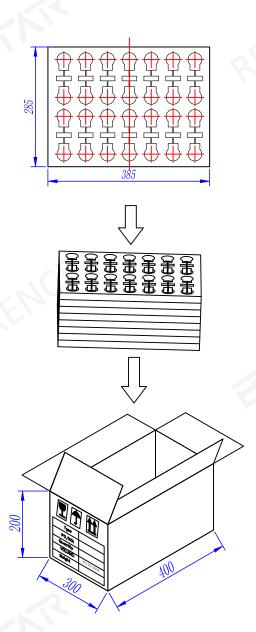
Notice:

After test leave at room temperature for 1 hours, SPL shall not deviate by ±3dB from pre-test measurement, and meet above spec. item 5,6,7,8,9.



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4. Packing



4.2 Packing quantity

- 1)28 pcs per tray
- 2)8 trays for unit
- 3)Total 224 pcs per carton
- 4)Size: 400×300×200(mm)



5. History change record

Version	Change Items	Date	Drawn	Checked	Approved
A0	First Edition	2022.06.16	Litra.Yang	Peter.Huang	Jason.zhang
	19	06			



6.Important Notice

6.1 The products mustn't be washed

6.2 Storage Condition (Packaging)

The products should be stored in the room ,where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products at the following conditions:

Temperature: -10 to + 40 $^{\circ}$ C Humidity: 15 to 85% R.H.

6.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after deliveried under the conditions of a sealed and an unopened package. Please use the products within six months after deliveried.

If you store the products for a long time (more than six months), use carefully because the products may be degraded in the solderability and/or rusty. Please confirm solderability and characteristics for the products regularly.

6.4 Notice on Product Storage

- (1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced at quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.
- (2) Please use the products immediately after the package is opened, because the characteristics may be reduced at quality, and/or be degraded in the solderability due to storage under the poor condition.

6.5 Rated and Max input power

Rated input power

Rated input power is the maximum (limit) value which can be input to the component intentionally. If the actual input power to component keeps exceeding Rated Input power, it will damage the component acoustic performances and reliability. In the worst case, the component will get broken and no sound.

Max input power

Max input power is the maximum (limit) value for unexpected input power which is caused in the customer's circuit like surge voltage. If the actual input power to component keeps exceeding Maximum input power, it will break the component and cause no sound in a short time. Please note that component will have a risk to get broken if the unexpected input power continues.

The value of input power is set based on the sinusoidal power in the normal speaker use. If the special signal is input to component, the values of Rated and Max input power will be different. Please make a well-investigation at your laboratory in the case of the special signal input.

