

深圳前海泰屹达科技有限公司

DATE:2018-12-17 SPEC. No.: TYD-**DT300805** total: 7 sheet

SPECIFICATION

SHEET FOR APPROVAL

(REVISION: 2017A Update:00)

CUSTOMER:

PRODUCTS: DYNAMIC SPEAKER

MODEL NUMBER:TYD-DT300805

CUSTOMER NUMBER:

INTERNAL DESCRIPTION:

$\Phi 30$ H4.5 8OHM

ENGINEER	CHECKED	APPROVED

CUSTOMER APPROVED

SIGNATURE	IMPRINTMENT

REVISION HISTORY

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No.	Revision	Update	Comment		Page No.	Date
			before	after		
1.	2018A	00	standardization		All involved sheets	2018-12-17

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MODEL : TYD-DT300805

1. SCOPE

This specification cover our product of speaker for use in your products.

2. MECHANICAL LAYOUT & DIMENSIONS

Shown in Fig.5

3. GENERAL REQUIREMENTS

3.1 WEIGHT: Approx gram

3.2 OPERATING TEMPERATURE RANGE: -25℃ to +65℃

3.3 STORAGE TEMPERATURE RANGE: -25℃ to +65℃

3.4 STANDARD CONDITIONS:

Temperature: 17~25℃

Relative Humidity: 45%~80% (RH)

Air Pressure: 860~1060hPa

3.5 JUDGEMENT CONDITIONS:

Temperature: 20±2℃

Relative Humidity: 60%~70% (RH)

Air Pressure: 860~1060hPa

4. SPEAKER MODE

4.1 SOUND PRESSURE LEVEL

91±3dB SPL At800,1000,1200,1500Hz in average (0dB SPL=20 μPa)

Input voltage: 0.1W(Sine wave)0.1M Measured baffler recommended.

4.2 IMPEDANCE: 8±15% ohm(at 1000Hz 1.0V)

4.3 RESONANCE FREQUENCY:550±20%Hz at 1V. (No Baffler)

4.4 TOTAL HARMONIC DISTORTION:Less than 5% at 1KHz ,1.0m,1W

4.5 MEASURING CIRCUIT: Shown in Fig.1.

4.6 FREQUENCY RESPONSE CURVE: Shown in Fig.2.

4.7 RATED POWER:0.5 W. **MAX POWER:** 1 W.

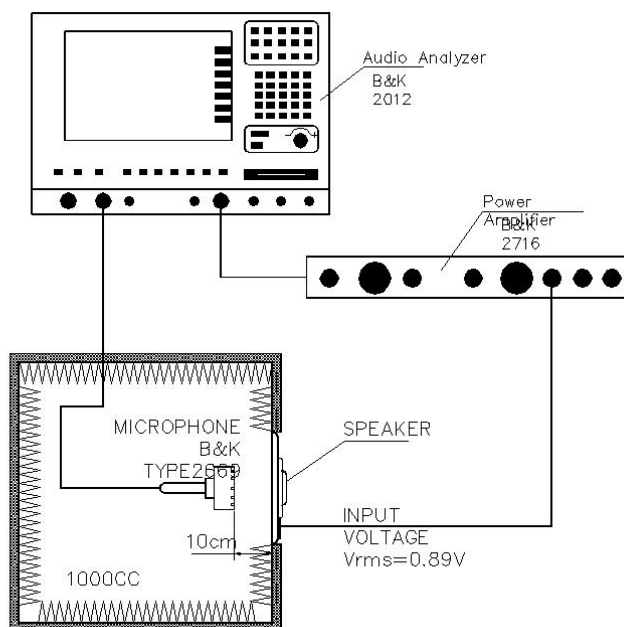
4.8 PURE SOUND DETECTION: Buzz,Rattle,etc Should not be audible at 2.8V sine wave from 200 Hz to 5K Hz.

4.9 POLARITY:When a positive DC current is applied to the terminal marked (+), diaphragm shall move forward.

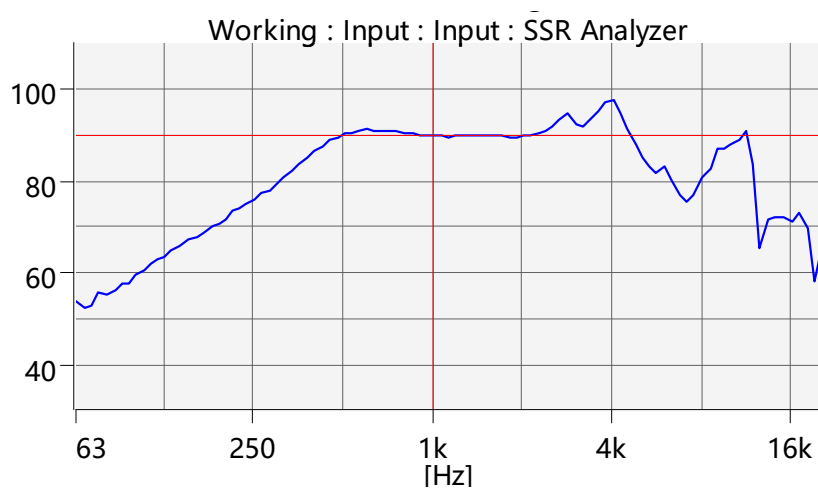
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■ FREQUENCY MEASURING CIRCUIT (Fig. 1)



■ FREQUENCY RESPONSE CURVE (Fig. 2)



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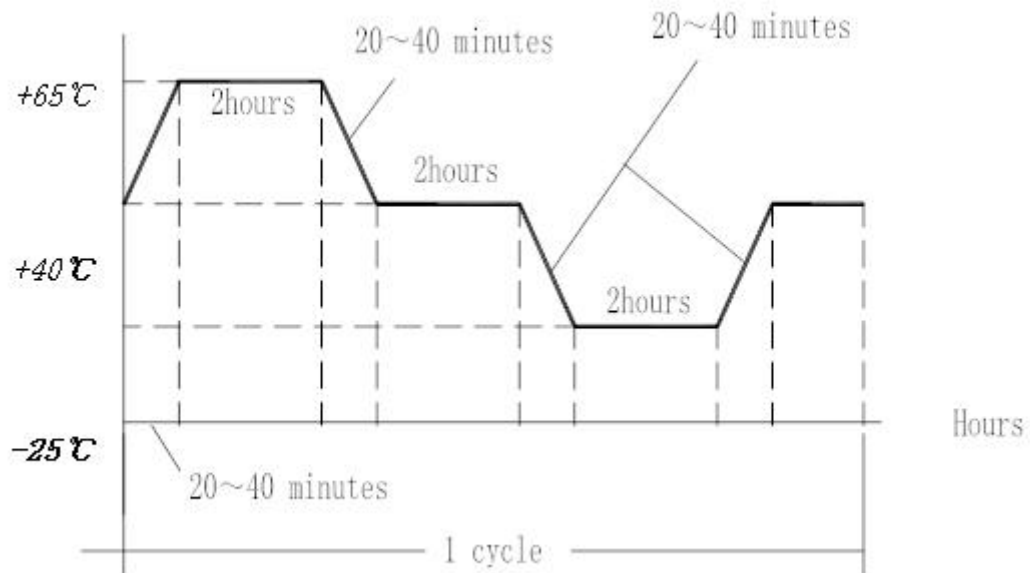
5. RELIABILITY TESTS

	① AFTER TEST Sensitivity difference shall be within $\pm 3\text{dB}$ after test (at 800 ~ 1500KHz average value), pure sound detection is normal when the sample is recovered 4 hours at house temperature
	② HIGH TEMPERATURE TEST High temperature: $+65^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Duration : 96 hours
	③ LOW TEMPERATURE TEST Low temperature : $-25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Duration : 96 hours
	④ HUMIDITY TEST Temperature : $+30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Relative humidity: 90~95% Duration : 96 hours
	⑤ TEMPERATURE CYCLE TEST (See in Fig.3) Temperature : -25°C $+65^{\circ}\text{C}$ Duration : 2 hours 2 hours Cycle : 6 cycle
	⑥ VIBRATION TEST Vibration : 10-55Hz/min Amplitude : 1.5mm Duration : 2 hours each axes
	⑦ DROP TEST(With handset or Approved equipment) See in Fig.4 Height : 1.5 m Cycle : 6 cycles onto the 5mm board
	⑧ LOAD TEST Subject samples to White Noise for 24 hours at 1.0 W input power.

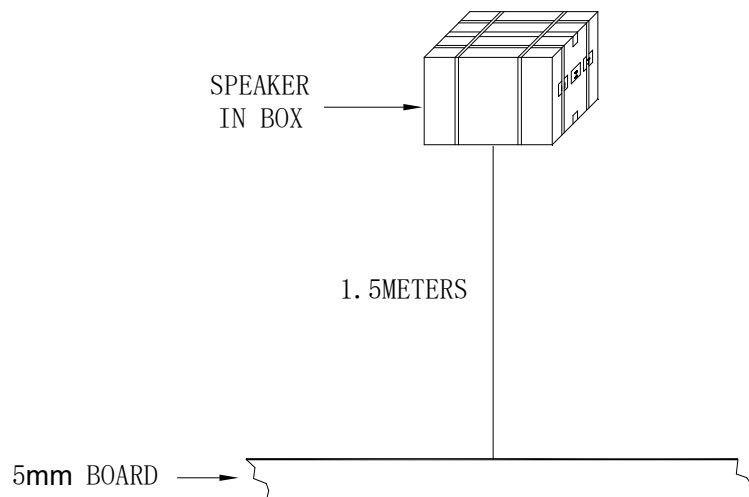
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■ TEMP. CYCLE TEST (Fig. 3)



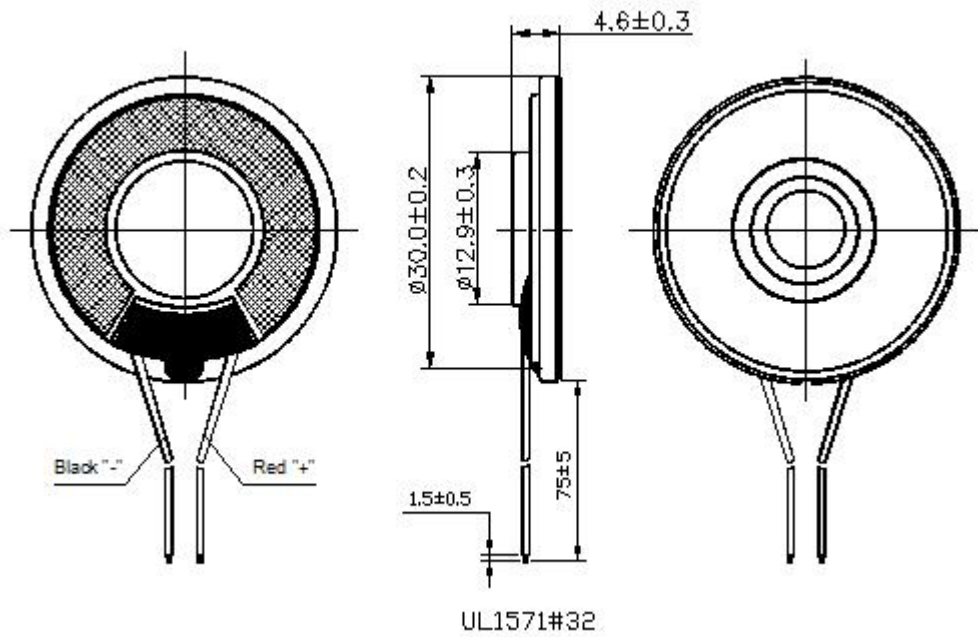
■ DROP TEST (Fig. 4)



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■ TEMP. CYCLE TEST (Fig.5)



View direction:

