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### 1. Scope

This specification covers our product of miniature speaker unit for multimedia product.

### 2. Test condition

The test conditions unless otherwise specified should be normal temperature 5 to 35 °C, Normal humidity 45 to 85% and normal atmospheric pressure 860 to 1060 hPa, However, if there arises a doubt in judgment, the test conditions shall be as follows:

Temperature 20±2°C

Humidity 60%~70%

Atmosphere 860~1060 hPa

### 3. ELECTRO-ACOUSTIC CHARACTERISTICS

#### 3.1 Rated Impedance:

8.0Ω ± 20% (AT 1.6K Hz , 1.0 Vrms)

#### 3.2 Rated Input Power

0.8 Watt (At 2.45 Vrms white noise 96 Hours)

#### 3.3 Max. Input Power

1.0Watt

#### 3.4 Resonant Frequency

100 Hz ± 20%

#### 3.5 Output S.P.L

77.23 ± 3dB (1.0 Watt , 0.1 Meter. Average at 1.5K, 2.0K, 2.5K, 3.0K Hz)

#### 3.6 Frequency Range

Fo ~ 20KHz (By Output S.P.L. -10dB)

#### 3.7 Distortion

Less than 5% (At 1.6KHz , 2.83 Vrms)

#### 3.8 Operating Temperature

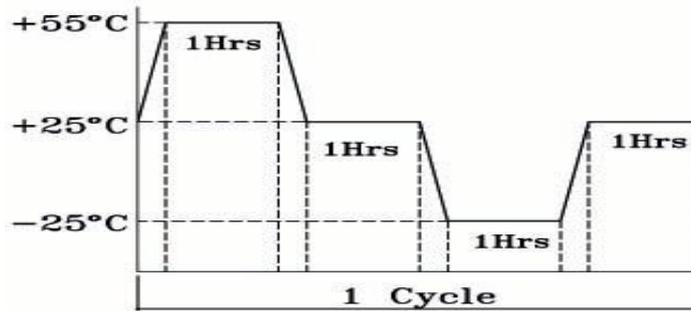
-25°C ~ +50°C

#### 3.9 Storage temperature

-25°C ~ +55°C

#### 4. Reliability Test

##### 4.1 Temperature Cycling Test



A	Low Temperature (-25°C ± 3°C)
B	High Temperature (+55°C ± 3°C)
C	Number of Cycle (3 Cycles)
D	Duration of Exposure 1 Hours, at Each Temperature Extremes
E	Duration of Recovery 1 Hours

##### 4.2 Humidity Test

A	Relative Humidity	90-95% at + 40°C ± 3°C
B	Durations	96 Hours
C	Durations of recovery	6 Hours

##### 4.3 Load Test

White Noise Without Weighted Filter 2.45 Volts.(RMS) 100 Hrs.

##### 4.4 Drop Test

75 cm Free Falling On Concrete Floor, 10 Times.

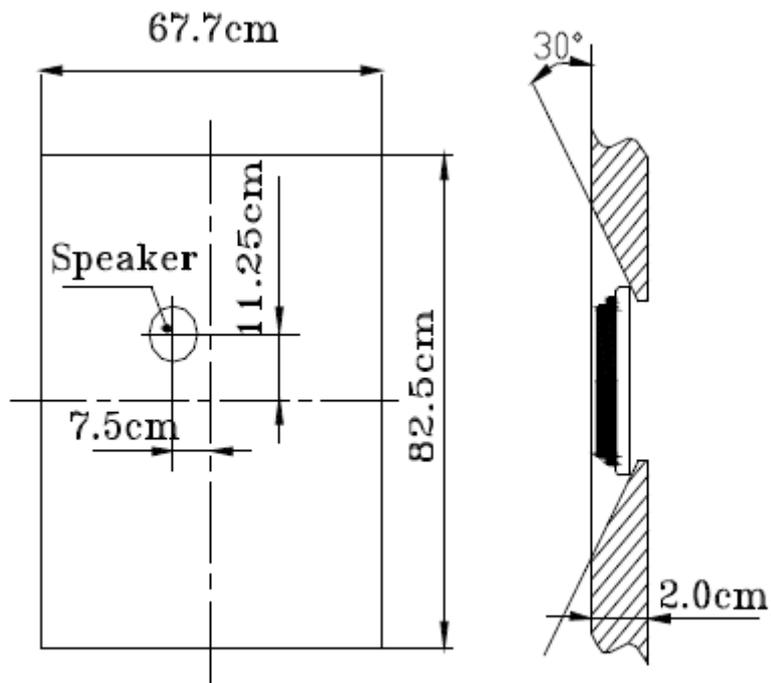
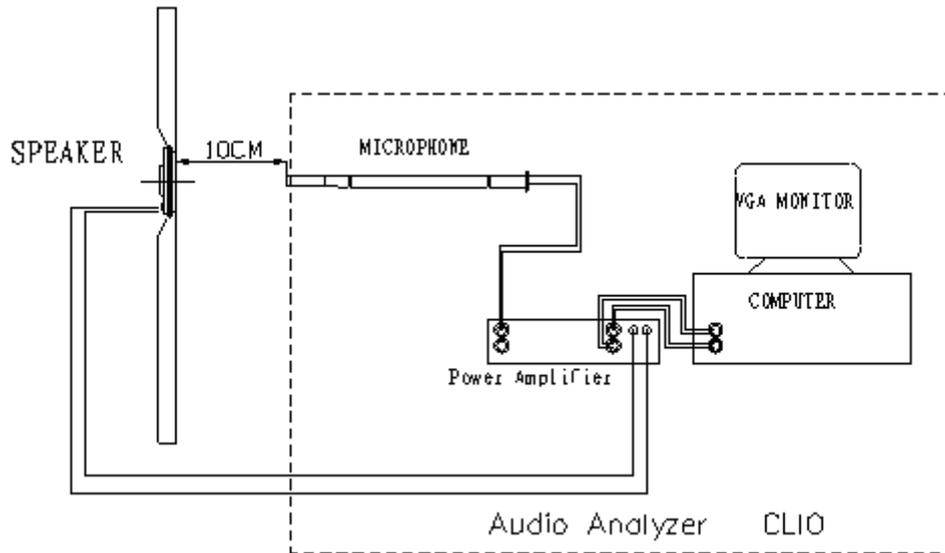
##### 4.5 Buzzes & Rattles

Sine wave between at 2.45 Vrms / 50~5000Hz

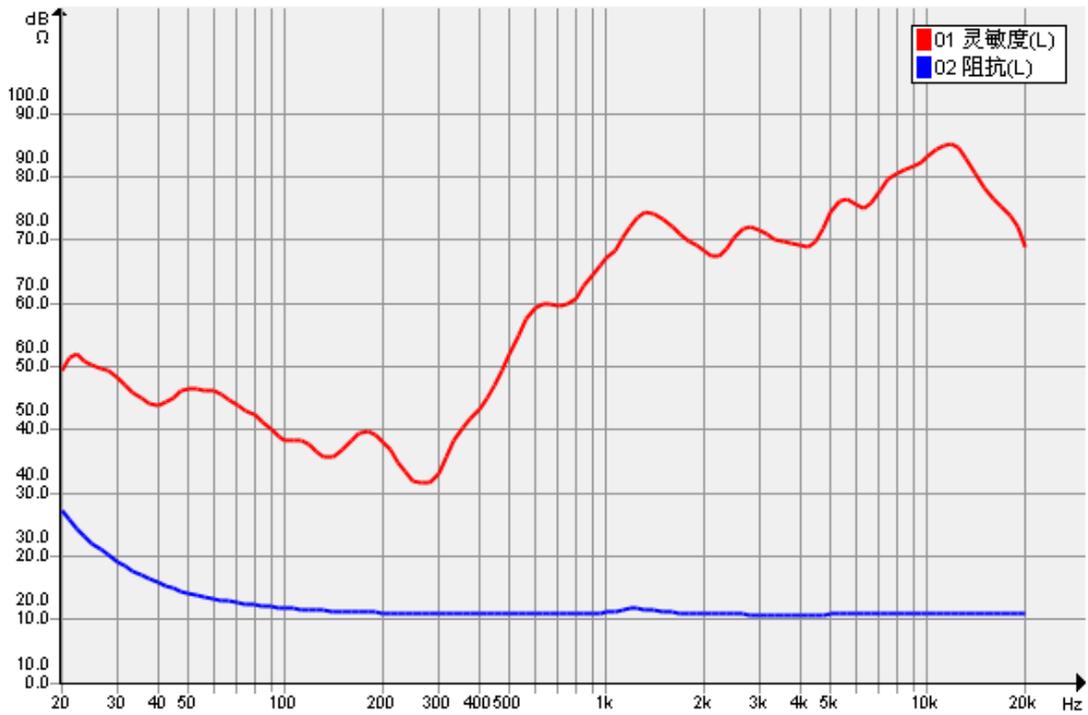
##### 4.6 Polarity test

Diaphragm Shall Move Forward When Apply a Positive DC. Current to the "+" or "Marked" Terminal.

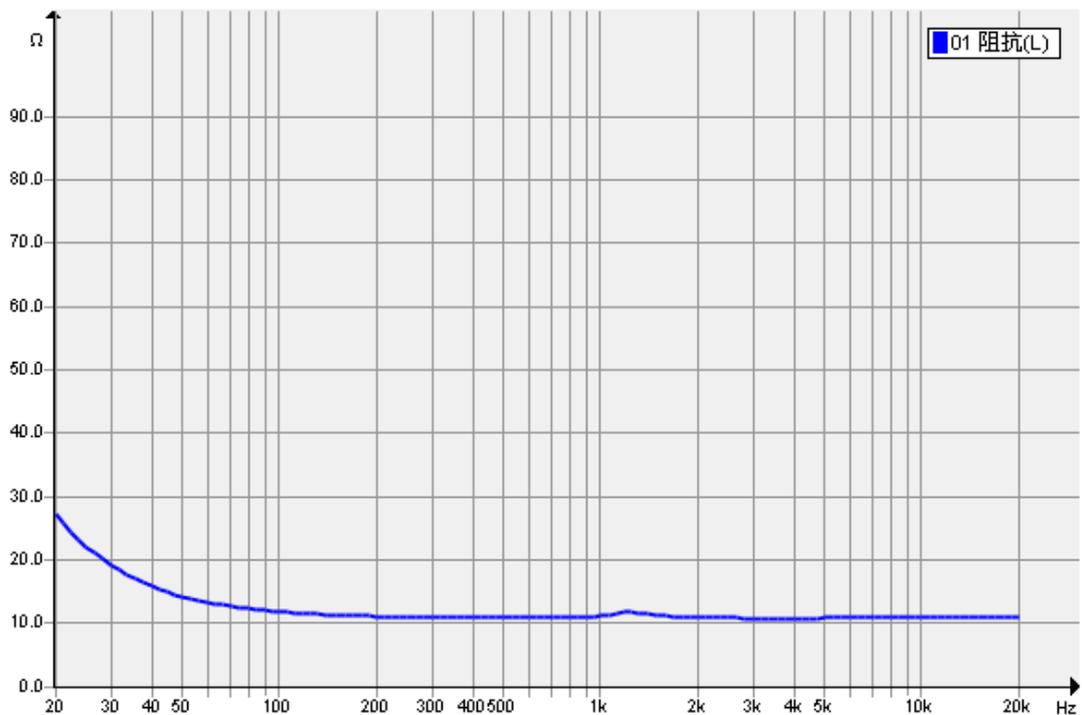
5. Measurement Method



### 6. Frequency Response Curve



### 7. Impedance Curve



8. Unit:mm tolerance:±0.2

