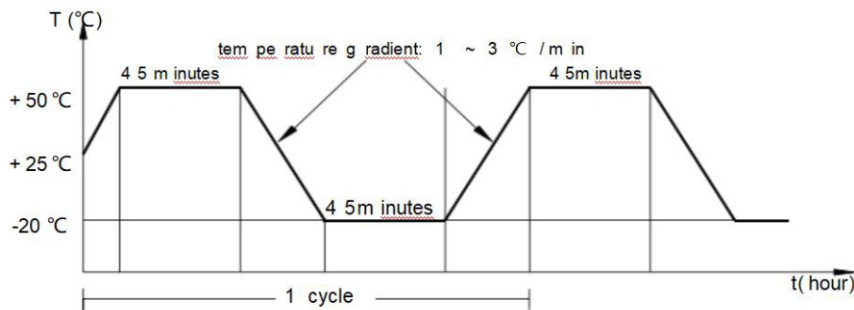


Model No.	YDSB-45100-8R5W-2P			Page No.	1 / 5
1. Scope This specification covers our product of miniature speaker unit for multimedia product. 2. Test condition The test conditions unless otherwise specified should be normal temperature 5 to 35°C, Normal humidity 45 to 85% and normal atmospheric pressure 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 5.0 Watt (At 2.83 Vrms white noise 96 Hours) 3.3 Max. Input Power 6.0 Watt 3.4 Resonant Frequency 400 Hz ± 20% 3.5 Output S.P.L 88 ± 3dB (0.1 Watt, 0.1 Meter. Average at 0.1K, 1.0K, 1.5K, 20K Hz) 3.6 Frequency Range Fo ~ 20KHz (By Output S.P.L. -10dB) 3.7 Distortion Less than 5% (At 1.6KHz, 0.89 Vrms) 3.8 Operating Temperature -25°C ~ +50°C 3.9 Storage temperature -25°C ~ +60°C					

4. Reliability Test

4.1 Temperature Cycling Test



A	Low Temperature ($-25^{\circ}\text{C} \pm 3^{\circ}\text{C}$)
B	High Temperature ($+50^{\circ}\text{C} \pm 3^{\circ}\text{C}$)
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 $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$
B	Durations	96 Hours
C	Durations of recovery	6 Hours

4.3 Load Test

White Noise Without Weighted Filter 2.83 Volts.(RMS) 100 Hrs.

4.4 Drop Test

75 cm Free Falling On Concrete Floor, 10 Times.

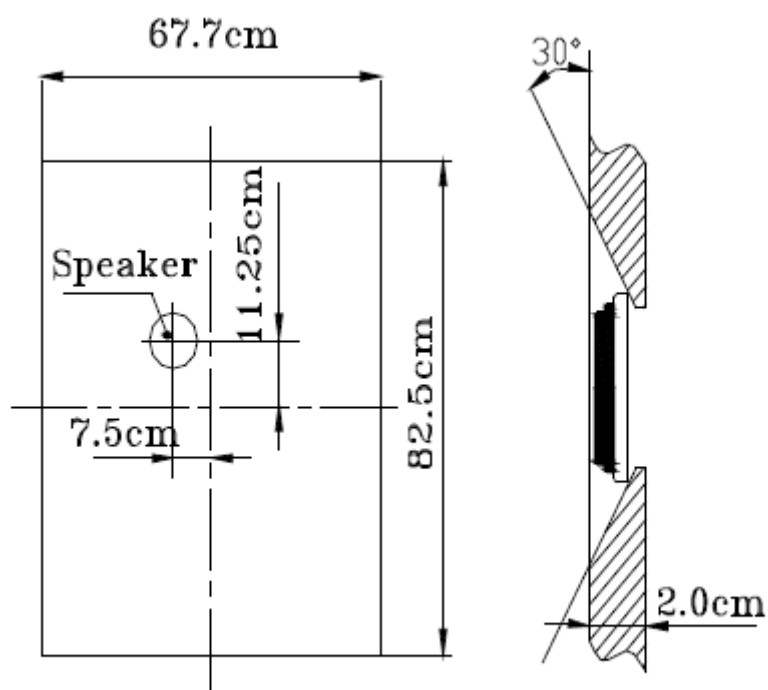
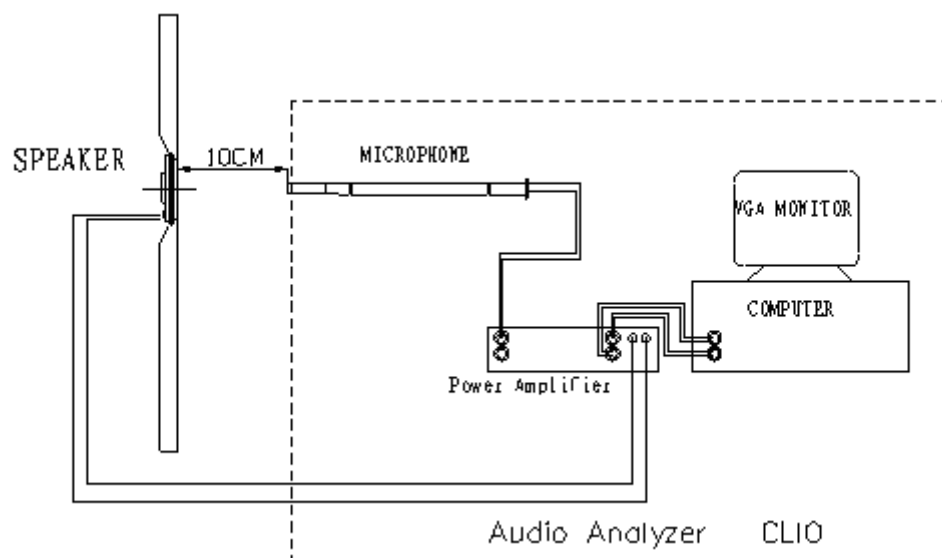
4.5 Buzzes & Rattles

Sine wave between at 2.2 Vrms / 200~5000Hz

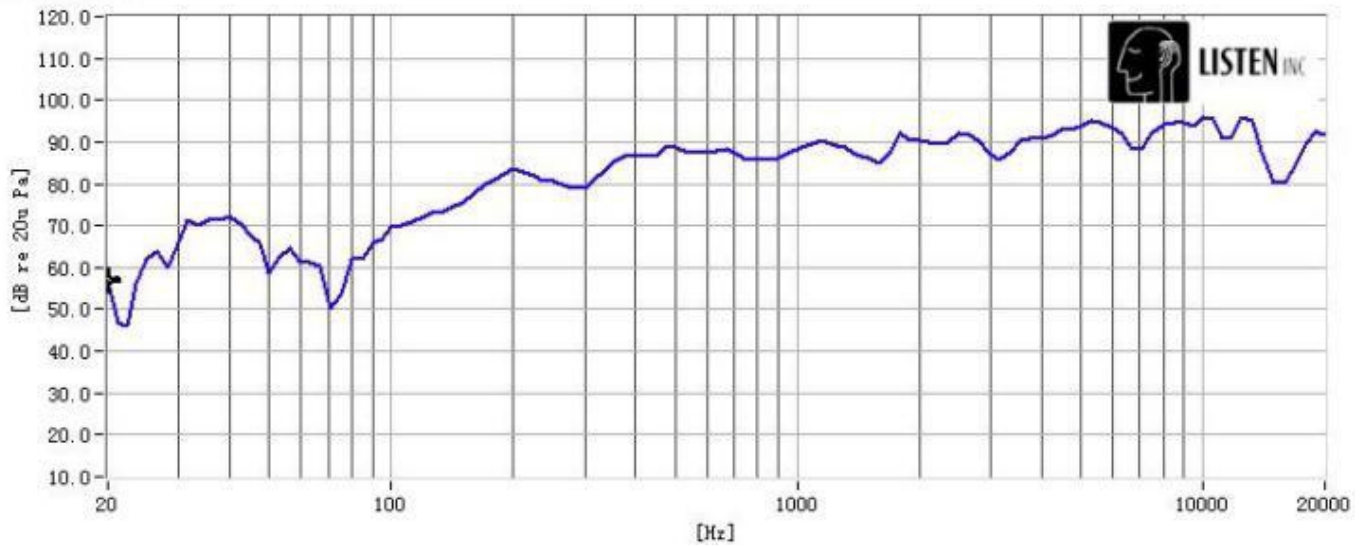
4.6 Polarity test

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

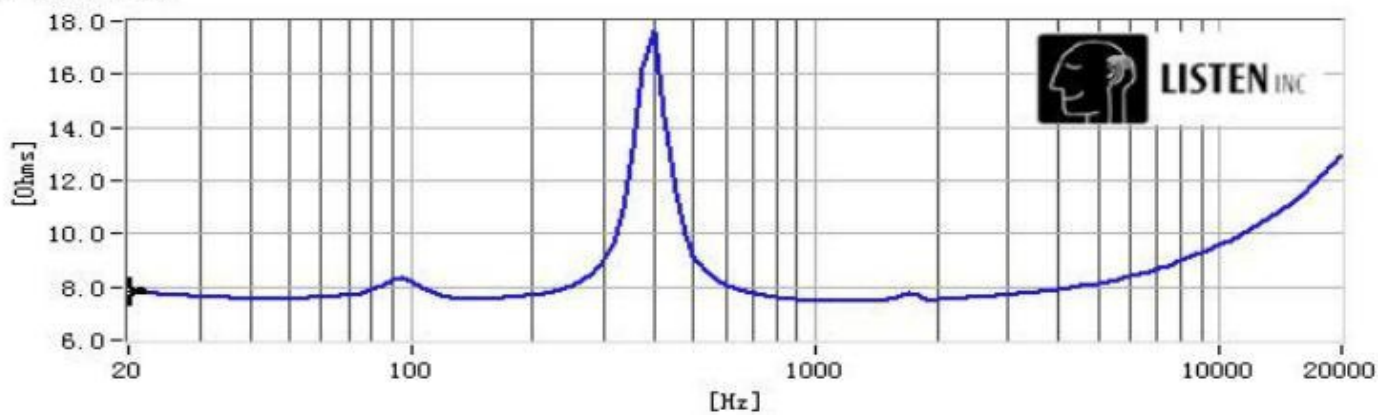
5 Measurement Method



6. Frequency Response Curve



7. Impedance Curve



8. Unit:mm tolerance: ±0.3

Product Outside View

