



APPROVAL SPECIFICATION

AuraSound P/N: NDW18-103-8-S1
Model No: NDW18-103-8-S1
Description: 18MM 8ohm cellphone speaker
Document No:
Customer:
Customer P/N:

Rev: 0

Prepared by: W.huang Date: 05/06/2008
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CUSTOMER SIGNATURE

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1. Scope

This specification covers our product of dynamic speaker unit for mobile telephone use.

Operating temperature: -20℃--+70℃

Storage temperature: -40℃--+80℃

2. Mechanical layout&dimensions

Shown in Fig.7

Items	Technical Specifications
1.Frequency Range	300-3400HZ
2.DC Resistance	7.4±10% ohm
3.Impedance	8.0±10% ohm @2kHz,1V
4.Measuring Diagram	Shown in Fig.1
5.Frequency Response	Shown in Fig.2
6.Sensitivity	85±3dB @2kHz,0.1W/0.1M
7.Rated Input	0.8W RMS
8.Max Input	1.2W MAX

Notes:The short term power which exceed Max.continuous power and under Max.short term power must not exceed 1 second and 1 time within 1 minute.

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3. Reliability Test

Items

Technical Specifications

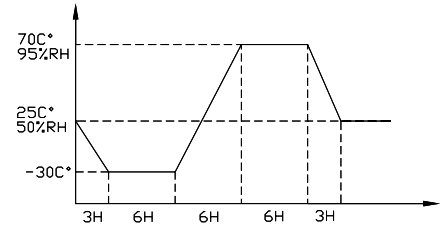
General After any following tests the response at 2KHZ shall not deviate more than $\pm 3\text{dB}$ from initial value

1. Operating High Temp. Input Rated power to driver the speaker: pink noise $+70\text{dB}$, 96H.

2. Operating low Temp. Input rated power to driver the speaker: Pink noise -20dB , 96H.

3. Storage High Temp. 70dB , 96H.

4. Storage Low Temp. -20dB , 96H.



1 cycle=24H (total: 6 cycles)
 Temperature Tolerance: $\pm 2\text{dB}$
 Temperature change rate: $\leq 1\text{dB}/1\text{min}$,
 Default $20\text{dB}/\text{hours}$

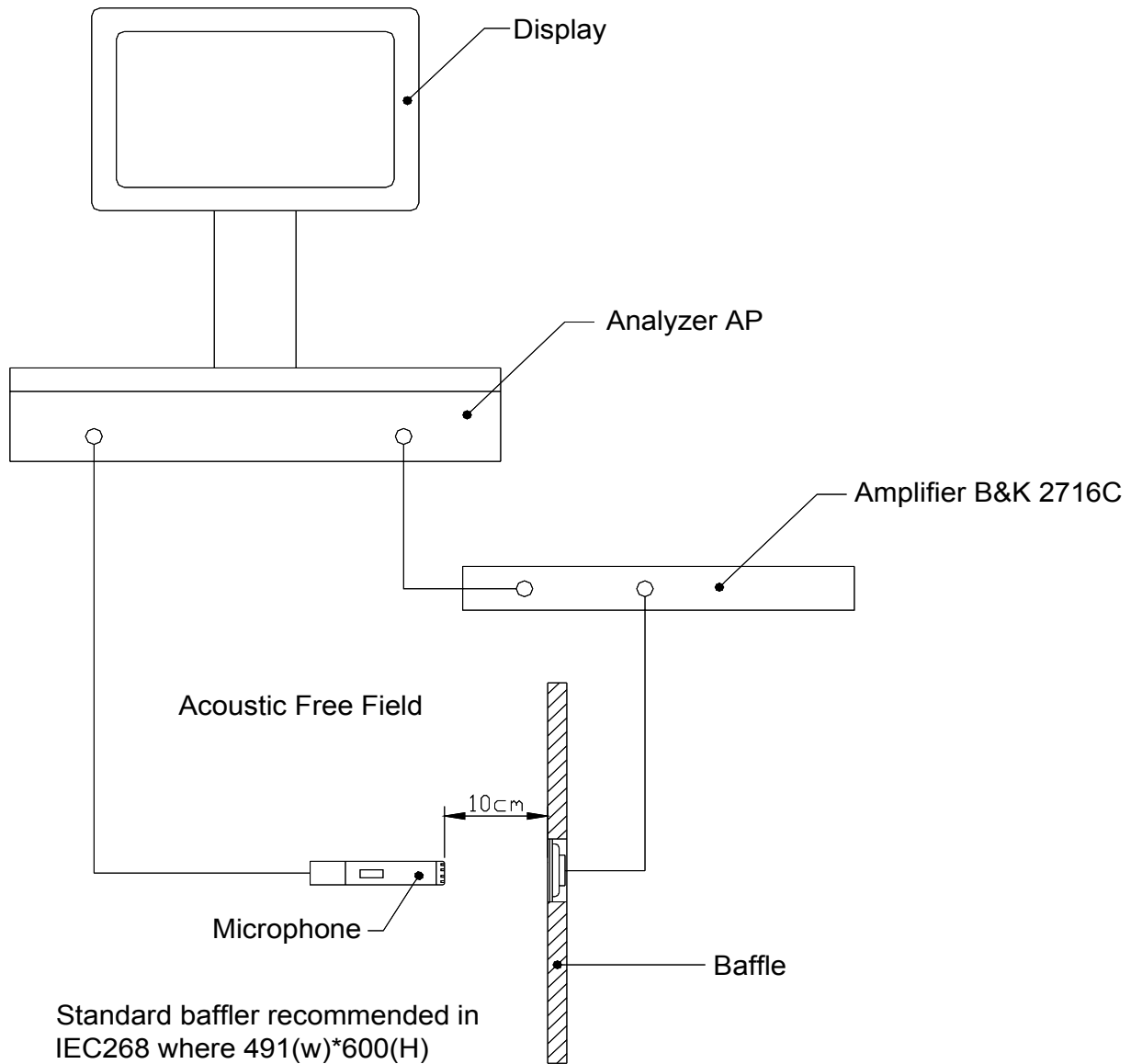
4. Non-Operating Temp./Humidity test 150CM (on the 1cm steel plan), Direction of drop 6 faces.
 5. Drop Test Weight: according to the products.

Amplitude 1.5mm
 Frequency 10-55HZ, 1oct/min. 55-150HZ: 1oct/min
 Amplitude 1.5mm.
 Minutes per Axis (X, Y and Z-axis)
 Acceleration: $60\text{M}/\text{S}^2$
 2 hours for each directions.

6. Vibration Test

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● **Frequency response measuring diagram(fig.1)**

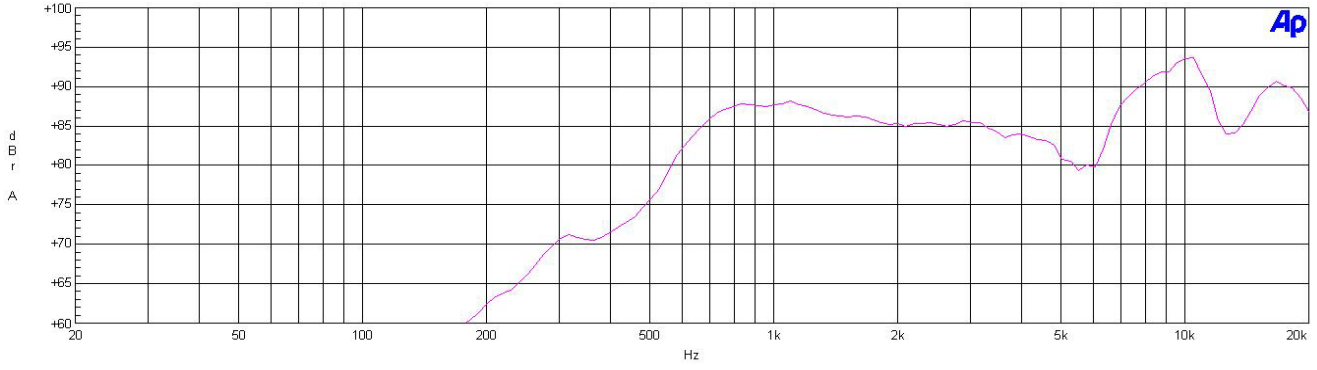


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● **Frequency response.(fig.2)**

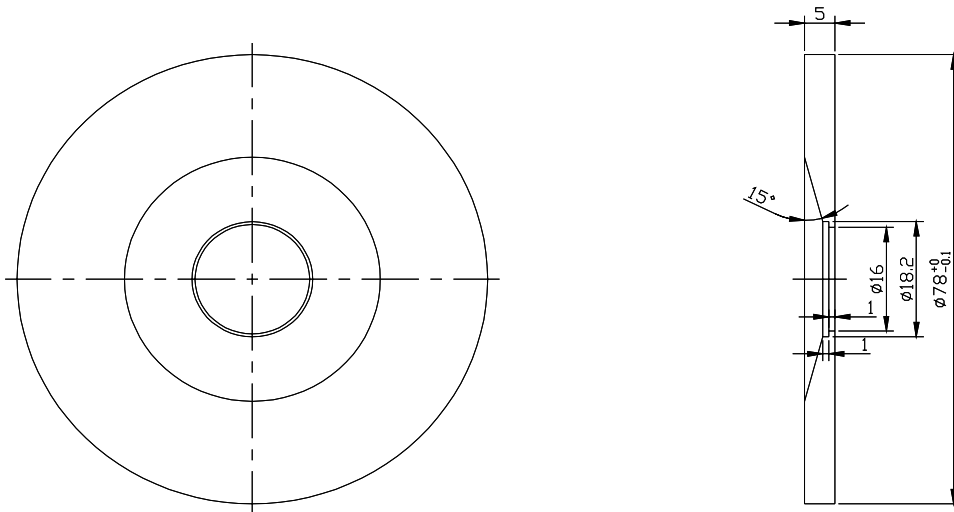
Audio Precision

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Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
2	1	Magenta	Solid	1	Anlr.Ampl	Left	

● **measure fixture.**

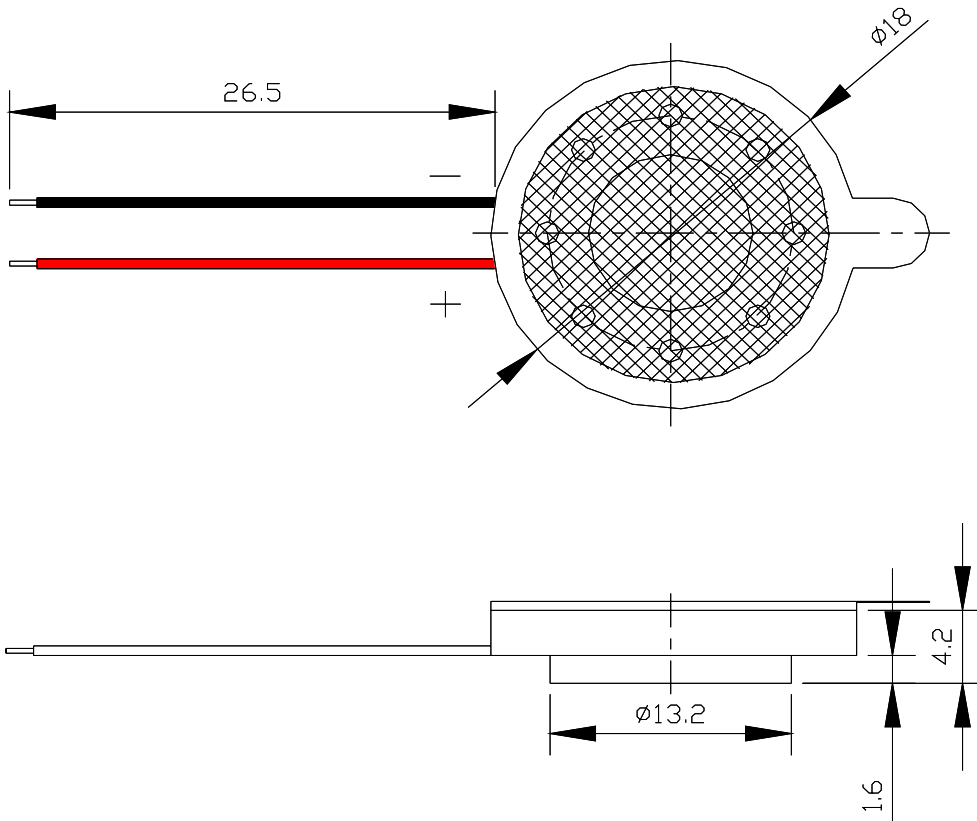


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5.Shape Drawing .

Note:General unless otherwise noted:±0.2



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