



APPROVAL SPECIFICATION

AuraSound P/N:	NDW20-103-8-S1	
Model No:	NDW20-103-8-S1	
Description:	20MM 8ohm cellphone speaker	
Document No:		Rev: 0
Customer:		
Customer P/N:		

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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

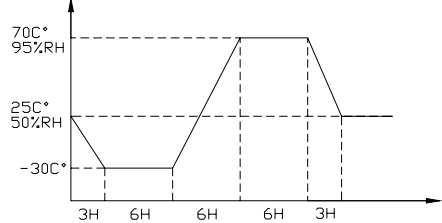
Shown in Fig.7

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.

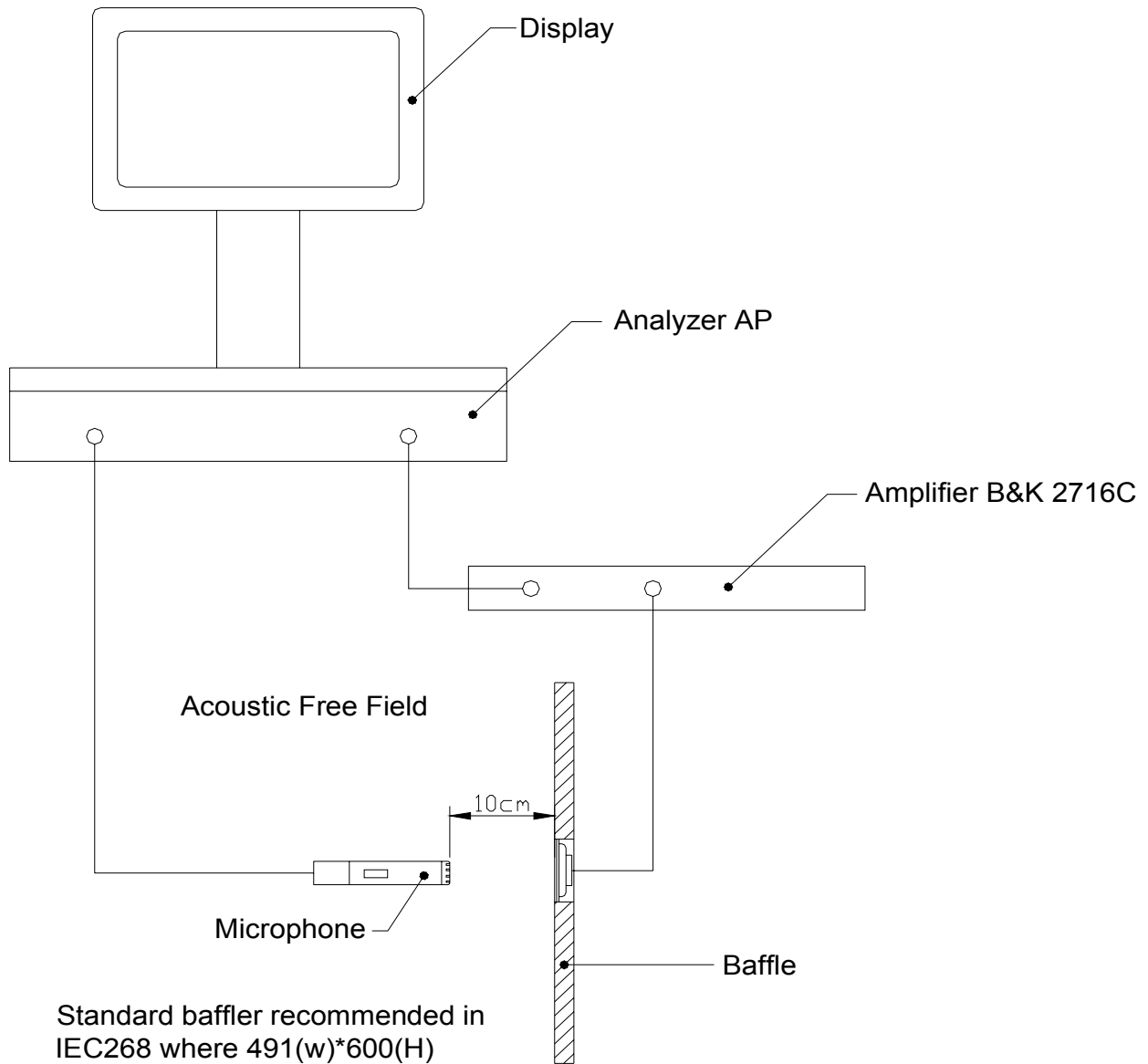
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3. Reliability Test

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 $+70^\circ, 96\text{H}$.
2. Operating low Temp.	Input rated power to driver the speaker: Pink noise $-20^\circ, 96\text{H}$.
3. Storage High Temp.	$70^\circ, 96\text{H}$.
4. Storage Low Temp.	$-20^\circ, 96\text{H}$.
4. Non-Operating Temp./Humidity test	<p>1cycle=24H(total:6cycles) Temperature Tolerance: $\pm 2^\circ$ Temperature change rate: $\leq 1^\circ/1\text{min}$, Default $20^\circ/\text{hours}$</p> 
5. Drop Test	150CM(on the 1cm steel plan), Direction of drop 6 faces. Weight: according to the products.
6. Vibration Test	Amplitude 1.5mm Frequency 10-55HZ , 1oct/min. 55-150HZ: 1oct/min Amplitude 1.5mm . Minutes per Axis(X.Y and Z-axis) Acceleration: 60M/S^2 2 hours for each directions.

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

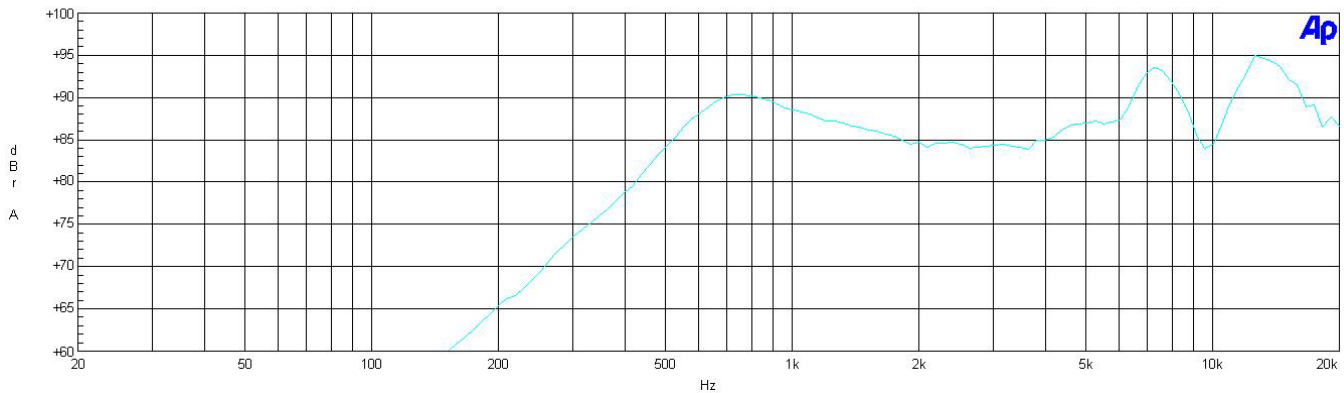


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● **Frequency response.(fig.2)**

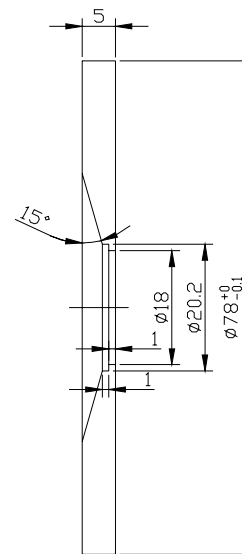
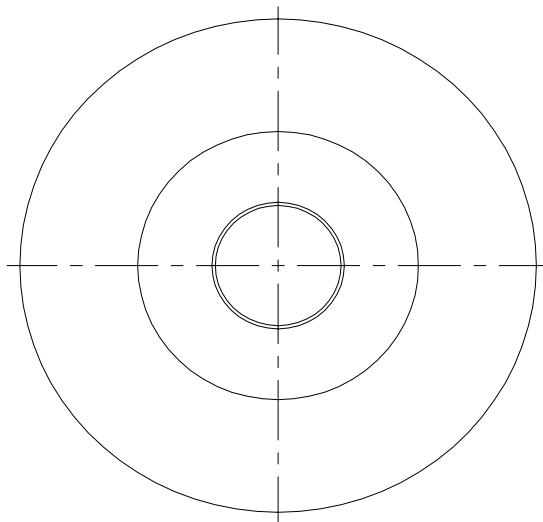
Audio Precision

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

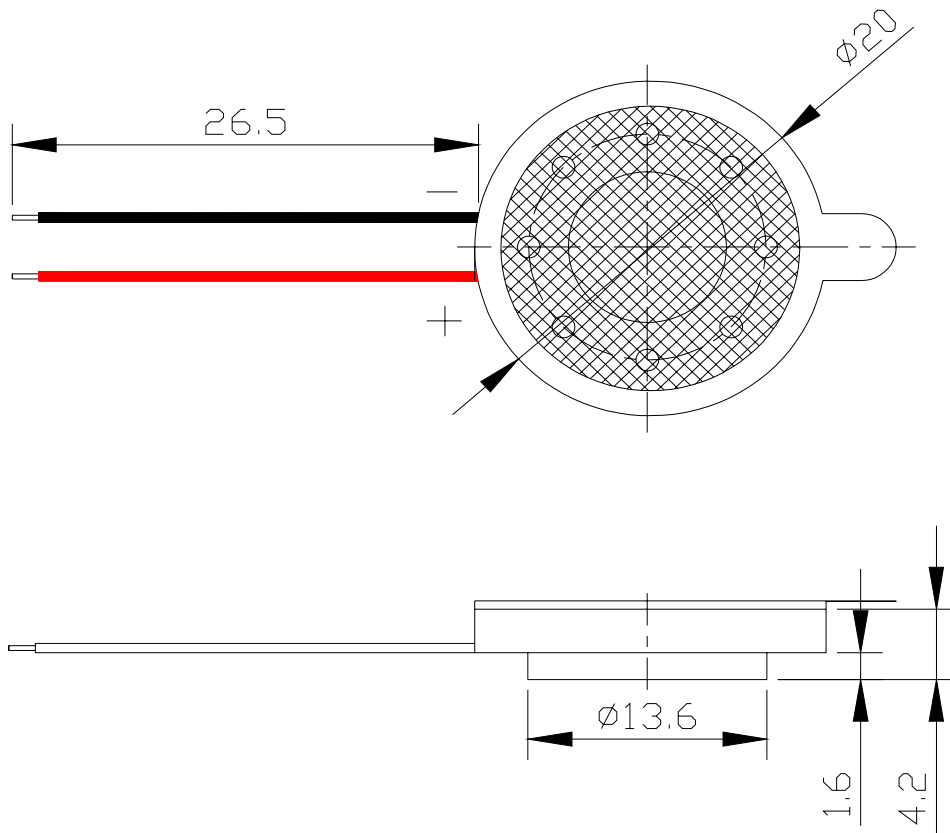
● **measure fixture.**



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5.Shape Drawing .

Note:General unless otherwise noted:±0.2



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