



APPROVAL SPECIFICATION

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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.3

Items	Technical Specifications
1.Frequency Range	300-10kHz
2.Resonance Frequency	450HZ±20%
3.DC Resistance	7.4±10% ohm
4.Impedance	8.0±10% ohm @2kHz,1V
5.Measuring Diagram	Shown in Fig.1
6.Frequency Response	Shown in Fig.2
7.Sensitivity	80±3dB @2kHz,0.1W/0.1M
8.THd	<10% at 2kHz,0.1m/0.1w input
9.Rated Input	0.35W (WITH 1CC BOX)
10.Max Input	0.9W MAX (WITH 1CC BOX)

Version	Date	Change by	ECN No:	Notes
0	05/15/2008	W.huang		Released



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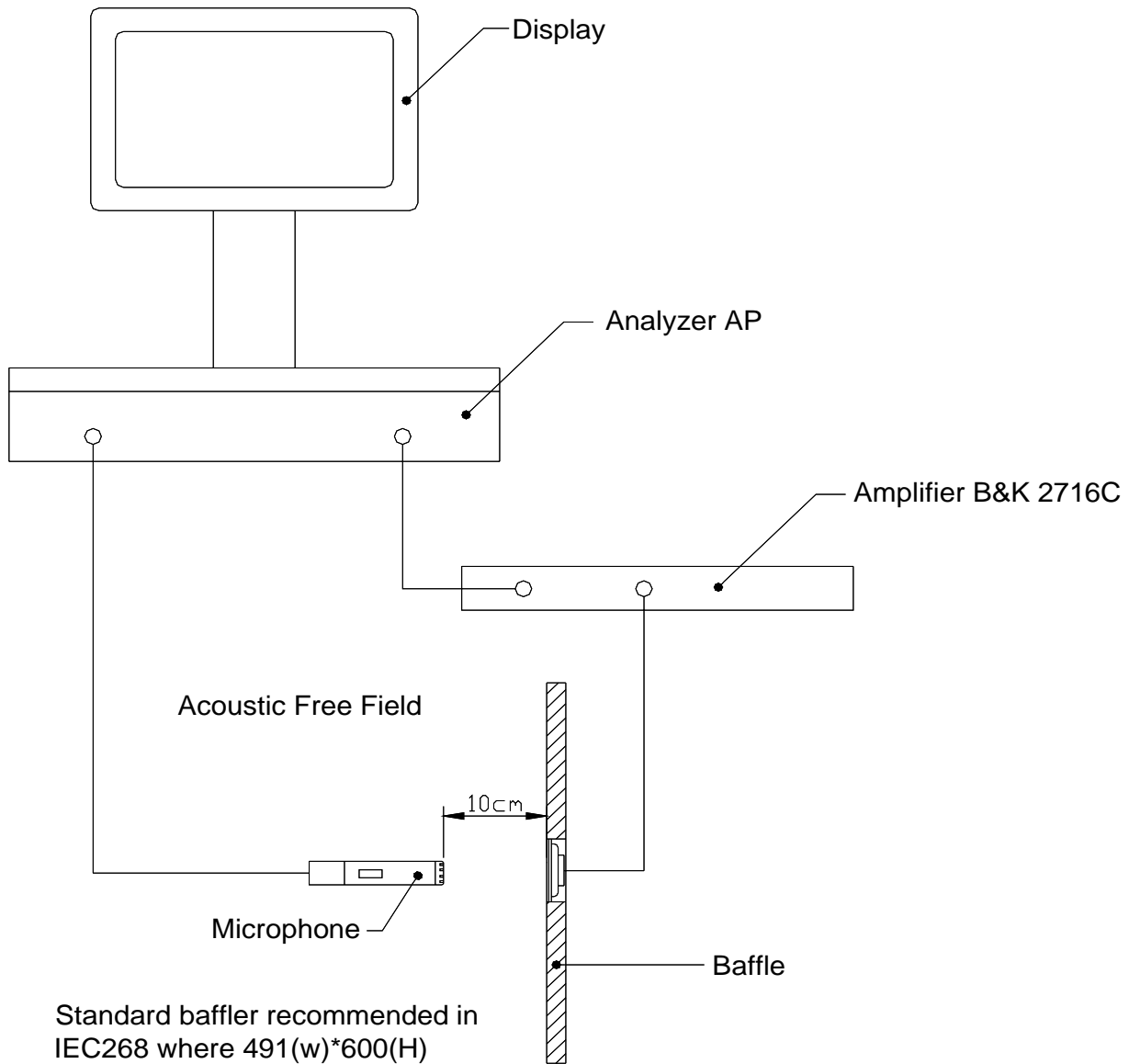
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3. Reliability Test

Items	Technical Specifications
General	After any following tests the response at 2KHZ shall not deviate more than $\pm 3\text{dB}$ from initial value
	-40 /+85 10cycles.30 minutes at each temperature.20-30 seconds transition time.refer to IEC 68-2-14
1.Temperature shock	
2.Static Humidity Test	soak samples to +85 with 85% relative humidity for continuous period of 168 hours.refer to IEC 68-2-67
3.Drop Test	DUTS shall be mounted in a 100g fixture,drop samples 1.5mm three times in each direction,total 18 times. DUTS shall be tested under each specified climatic condition (per section 6).for a continuous period of 100 hours at a rated noise power.input shall be simulated program signal(IEC 268-1) with a peak to rms ratio of 1.8 to 2.2 in rated frequency range. refer to IEC268-5
4.Operating life	DUTS shall be tested under each specified climatic condition(per section6),input simulated program signal(per IEC 268-1) with crest factor of 1.8 to2.2 in rated frequency response for a period of 1 second.and the test shall be repeated 60 times with intervals of 1 min. refer to IEC 268-5
5.Short Term maximum power.	Signal IEC268-1 with high-pass 12dB/OCT,at 800HZ,crest factor 2, 1.1000mw input,1 sec on,1min off,60cycles 2.600mw input,1min on,2min off,10cycles 3.350mw input(PHC CONTINUOUS)4 days
6.load test	
7.rub&buzz test	Should not be audible at 1.67 Vrms,sine wave between 300-3400HZ

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

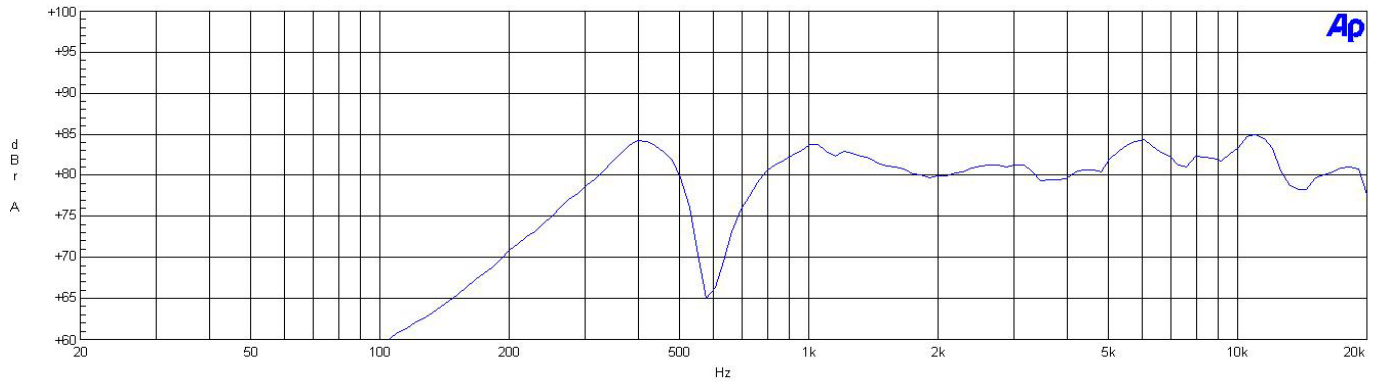


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● Frequency response.(fig.2)

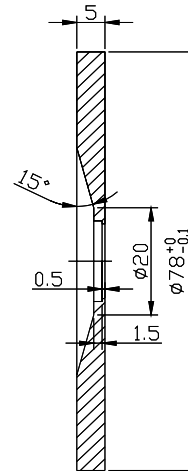
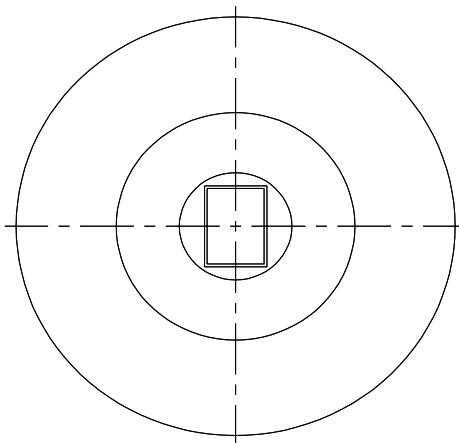
Audio Precision

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Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
4	1	Blue	Solid	1	Anlr.Ampl	Left	

● measure fixture.



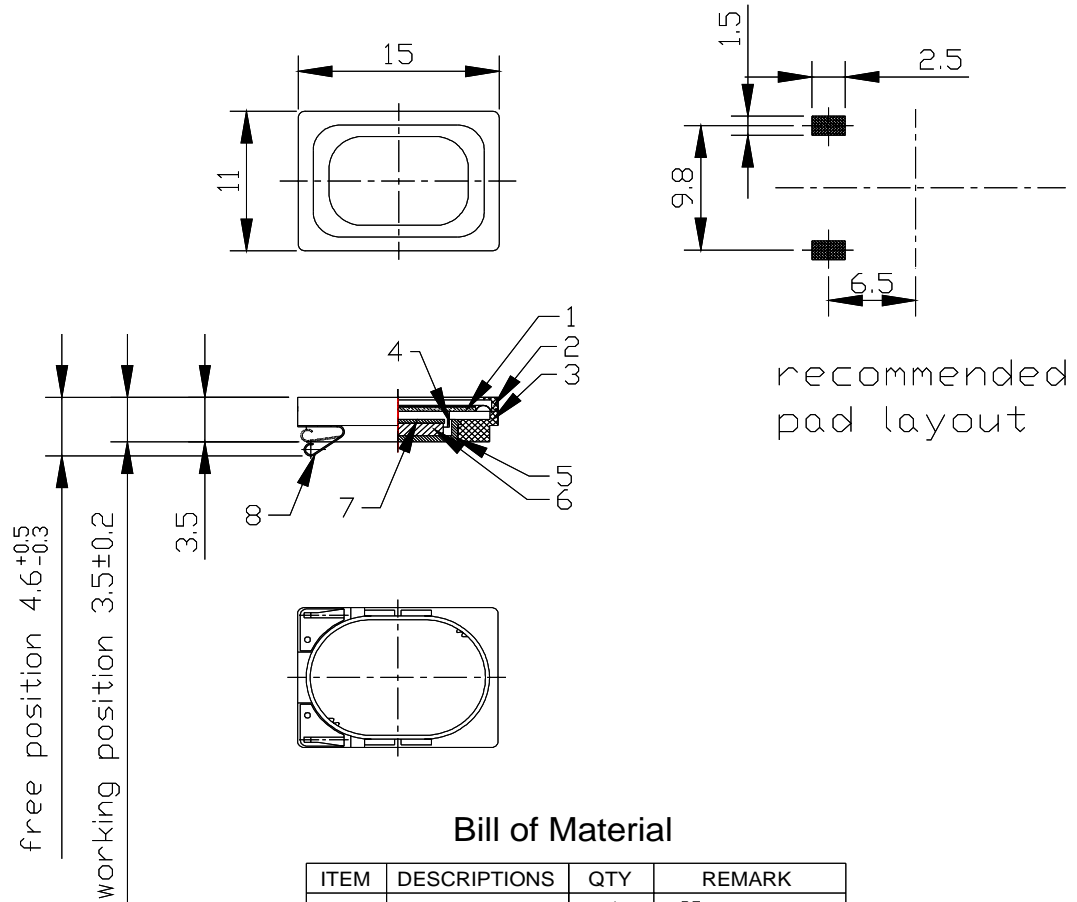
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Notes
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5. Shape Drawing .(fig.3)

Note: General unless otherwise noted: ± 0.2



Bill of Material

ITEM	DESCRIPTIONS	QTY	REMARK
1	diaphragm	1	PEI+paper
2	cover	1	ABS757
3	Frame	1	ABS757
4	voice coil	1	copper
5	U-yoke	1	steel
6	magnet	1	N40H
7	top plate	1	steel
8	terminal	1	stainless steel

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