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# SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER
Part No.	AS-3646B08-17T
Customer Approval	

Approved By	Checked By	Made By



A & B Components

<http://www.speaker-tw.com>

## AS-3646B08-B17T

01	Type	Dynamic speaker	
02	Dimension	External diameter 36 mm	
03	Rated Input Power	1.0 W	
04	Impedance	8 ohm $\pm$ 15% at 2000Hz	
05	Resonance Frequency (Fo)	550 Hz $\pm$ 20% at Fo, 1V	
06	Sensitivity (S.P.L.)	85dB(W/m) $\pm$ 3 dB	at AVE 0.8,1.0,1.2,1.5 KHz.
		102dB(1.0W/0.1m) $\pm$ 3 dB	
07	Frequency Range	Fo – 6KHz	
08	Distortion	Less than 10 % at 2000Hz ,1.0 W	
09	Max. Input Power	Must be normal at 1.2W white noise for 1 minute.	
10	Voice Coil	Diameter 13.5 mm	
11	Magnet	Rare earth permanent (NdFeB) magnet $\phi$ 12.5 X 1.5 mm	
12	Weight	9.1g $\pm$ 0.5g	
13	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.	
14	Operation Test	Must be normal at program source 1.0W	
15	Buzz, Rattle, etc.	Should not be audible at 2.83V sine Wave between Fo to 20KHz	
16	Polarity	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front.	
17	Terminal Strength	Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.	
18	Load Test	1.0 W white noise is applied for 96 hours and satisfy the test listed on item 05,06,13,15	
19	High Temp. Test	Keep 96 hours at +70°C $\pm$ 3°C and leave 3 hours in normal temperature and then check	
20	Low Temp. Test	Keep 96 hours at -20°C $\pm$ 3°C and leave 3 hours in normal temperature and then check	
21	Humidity Test	Keep 96 hours at + 60°C $\pm$ 3°C relative humidity 95% and leave 3 hours in normal temperature and then checked.	
22	Drop Test	Drop the speakers contained in normal box onto the board 20mm thick 10 times from the height of 0.75m and then should satisfy the test listed on item 13 and 15	

# Measurement Condition

## STANDARD

Temperature : 5 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

## JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

1. Microphone : B&K 4191

2. Standard Baffle : In IEC 268-5 Where 1350mm x 1650mm

3. Testing Distance : 0.1m

4. Zero Level : -dB

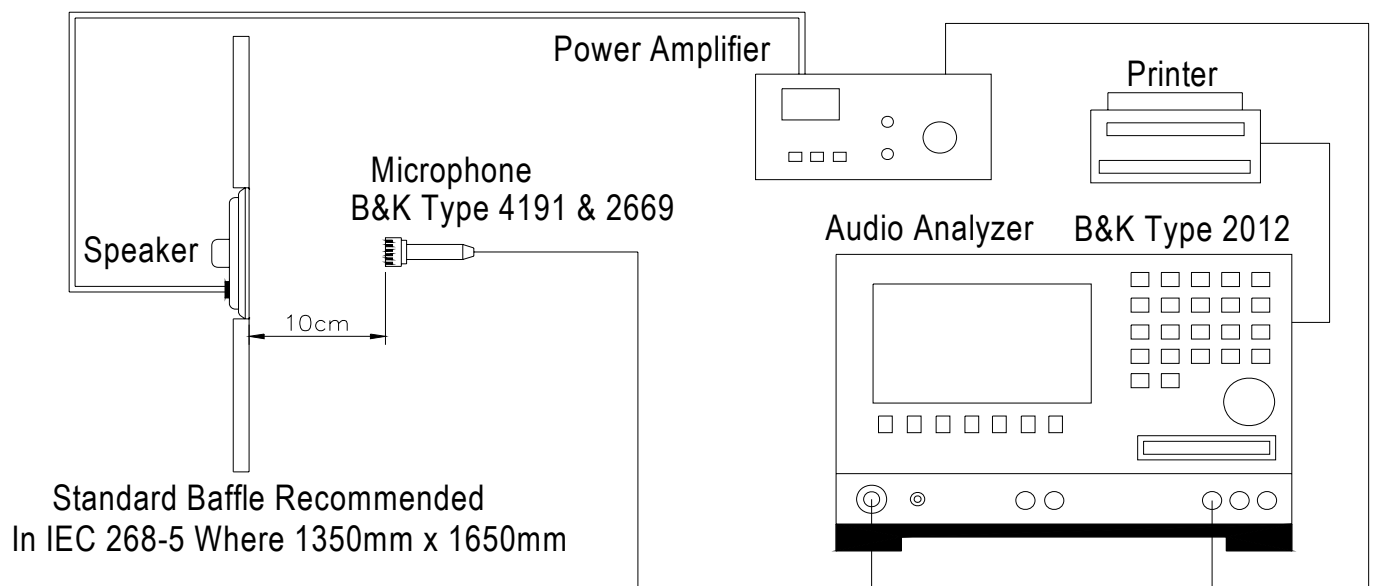
5. Mode : SPEAKER

6. Input Power : 1.0W(2.83V)

7. potentiometer Range : 50dB

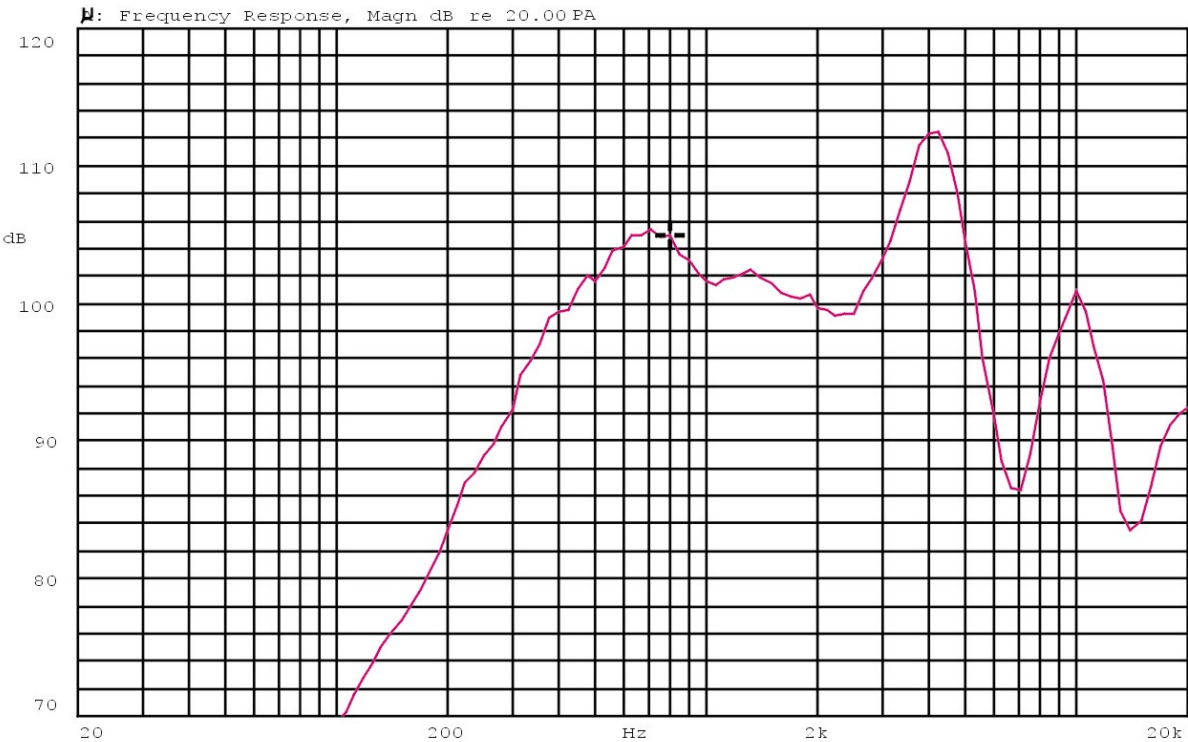
8. Sweep Time : 0.5sec

## Standard test condition of speaker



# Frequency Response Curve

AK-3608BB-17  
X:800.00Hz      \*Y:104.89dB      ZA:Live Curve      SSR Fund.

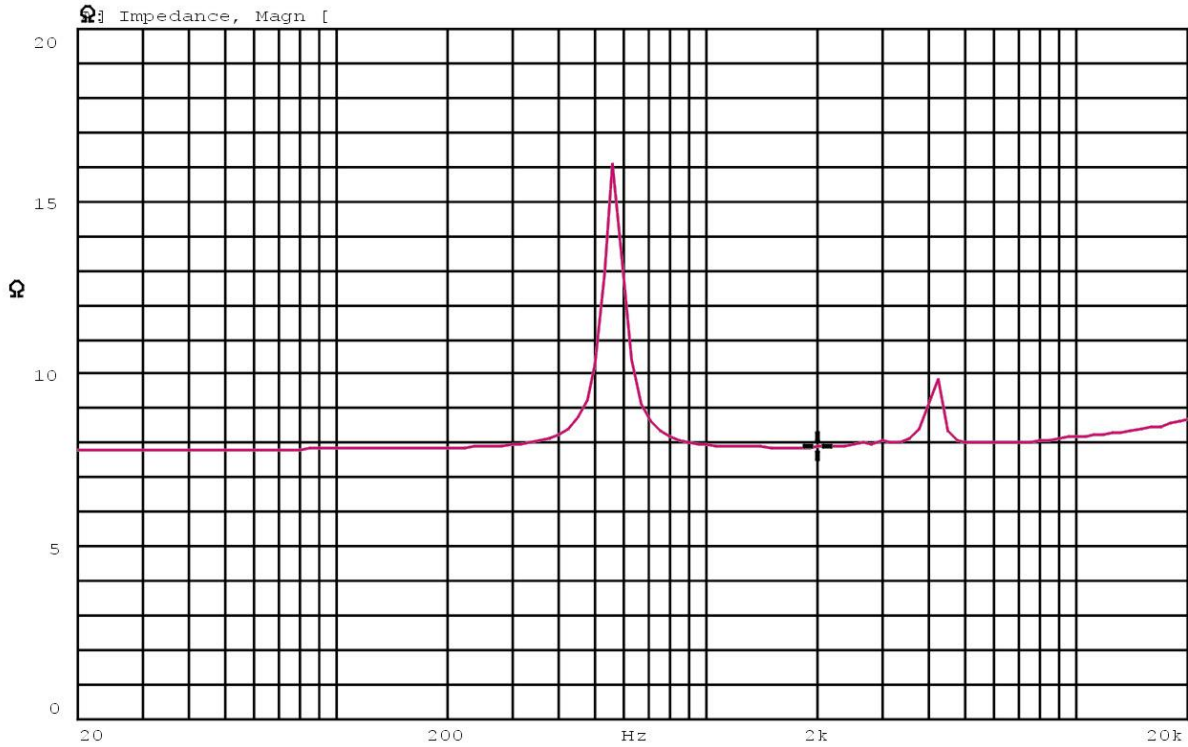


Mode: SPEAKER



# Impedance Curve

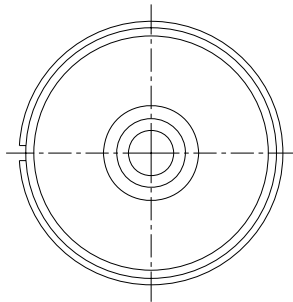
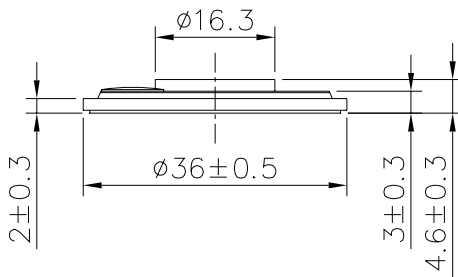
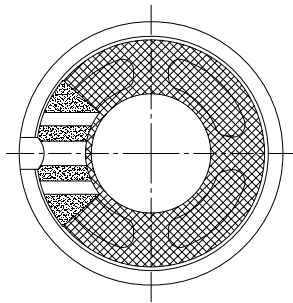
IMPEDANCE MEASUREMENTS: Measurement of Impedance  $Z(j\omega)$   
ZA:Live Curve Impedance  
X:2.0000kHz      Y:7.885  $\Omega$



Mode:  $Z(j\omega)$



REV NO.	REVISION NOTE	APPROVAL	DATE
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TITLE: DYNAMIC SPEAKER		DRAWN: Richard 07/13/2004	SCALE: 1:1	SHEET: 1 of 1
PART NO. AS-3646B08-B17T	1	DESIGNED: R&D DEP.	UNITS: mm	
DWG NO. DTS-1300		CHECKED:	TOLERANCE ± 0.2	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
	REV	MATERIAL: *****	ONE PLACE DECIMAL ± ***	
			TWO PLACE DECIMAL ± ***	
			THREE PLACE DECIMAL ± ***	

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