# SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER
Part No.	AS-3246B08-B2T
Customer	
Approval	

Approved By	Checked By	Made By		



A & B Components

http://www.speaker-tw.com

1.SPECIFICATION AS-3246B08-B2T

ITEM		SPECIFICATIONS			
01	Туре	Dynamic speaker			
02	Dimension	External diameter 32 mm			
03	Rated Input Power	2.0W			
04	Max. Input Powe	2.5W			
05	Impedance	8 ohm ± 15% at 2000Hz.			
06	Resonance Frequency (Fo)	520Hz ± 20% at Fo, 1V			
07	Sensitivity (S.P.L.)	87dB(0.1W/0.1m) ± 3 dB	at AVE0.8K 1.0K 1.2K 1.5K Hz.		
07		100dB (2.0W / 0.1m) ± 3 dB	alaveo.or i.or i.zr i.sr nz.		
08	Frequency Range	Fo – 20KHz			
09	Total Harmonics Distortion	Max 8 % at 1 KHz,2.0W.			
10	Voice Coil	Diameter 13.4 mm			
11	Magnet	Rare earth permanent (Nd-Fe-B) magnet Φ12.5 x 1.5 mm			
12	Weight	8g ± 5%g			
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 – 2.0W			
15	Buzz, Rattle, etc.	Should not be audible at 4.0V 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	Temperature	Operating temperature: -20° $_{\mathbb{C}}$ to +60° $_{\mathbb{C}}$ Storage temperature: -30° $_{\mathbb{C}}$ to +70° $_{\mathbb{C}}$			

#### 1. MEASURING METHOD

### 2-1 .Test Condition

#### **STANDARD**

Temperature : 15 ~ 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

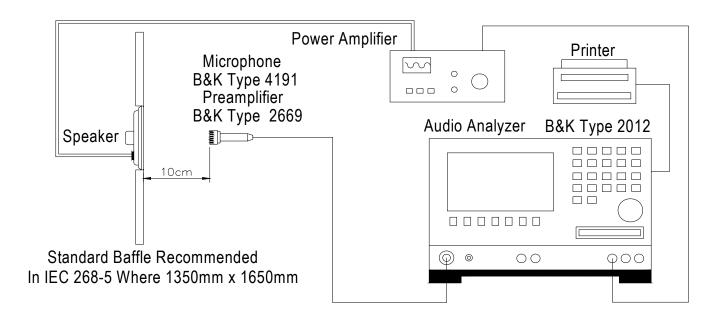
### 2-2 . Standard Test Fixture

1.Input Power: 2.0W (4.0V)

2.Zero Level : -dB 3.Mode : SPEAKER

4.potentiometer Range: 50dB

5.Sweep Time: 0.5sec



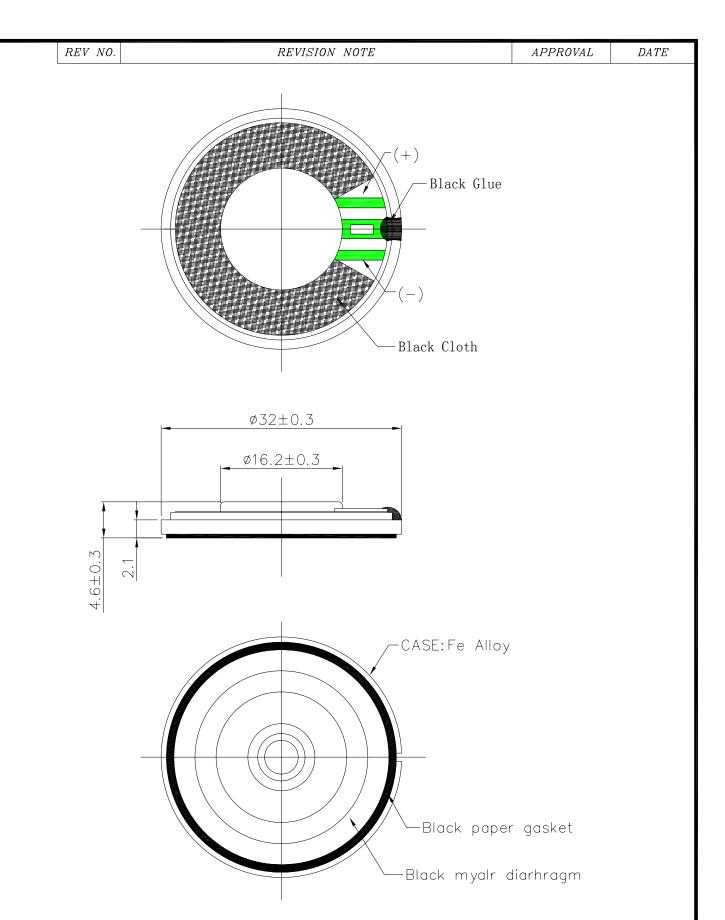
# 2-3. Frequency Response Curve



# 2-4. Impedance Curve

Mode: Z(jw)





TITLE:	DYNAMIC SPEAKER		DRAWN:	Richard	2009-7-3	SCALE: 2:1	SHEET: 1 of 1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			DESIGNED: R&D DEP.		UNITS: mm		
PART NO.	AS-3246B08-B2T		CHECKED:		$TOLERANCE \pm 0.3$ $UNLESS$ OTHERWISE SPECIFIED:		
DWG NO.	7G NO 4 120007004		APPROVAL:			ONE PLACE	DECIMAL ± *** DECIMAL ± ***
1,0	A-K09070301	REV	MATERIAL:	****			GE DECIMAL ± ***

A & B Components

### **4.RELIABLITY TESTS**

Items.		Specifications		
01	High temp. Test	Keep 96 hours at $+70^{\circ}$ C $\pm 3^{\circ}$ C and leave 3 hours in normal temperature and then check		
02	Low temp. Test	Keep 96 hours at -30°C±3°C and leave 3 hours in normal temperature and then check		
03	Humidity test	Keep 96 hours at + $60^{\circ}$ C $\pm 3^{\circ}$ C relative humidity 95% and leave 3 hours in normal temperature and then checked.		
		The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;		
04	Temp./Humidity cycle	90 ~ 95 % RH  65°C  0.5hr  6hrs  0.5hr  5hrs		
05	Thermal cycle test.	Low temperature: $-30^{\circ}$ C $\pm 3^{\circ}$ C, temperature: $+70^{\circ}$ C $\pm 3^{\circ}$ C, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.		
06	Vibration	10~200~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.		
07	Fix drop test	Fix on jig. Then drop from 152cm height to the concrete floor X,y, z 6 direction. 5 times each, total 30 times.		
80	Free drop test	Free drop from 100cm height to the concrete floor X,y, z 6 direction. 1 times each, total 6 times.		
09	Rated Power test	Rated Power white noise is applied for 96 hours		
10	Max Power test	Max power 1 min on – 2 min off 10 cycles.		
11	Terminal strength test	Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.		

Criterion:

After anyone test above, the change of S.P.L shall be within ±3 dB

### **SOLDERING CONDITION**

Recommend using constant searing-iron in temperature range  $360\pm5^{\circ}$ C. Soldering time 2 seconds.