SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER
Part No.	AS-2035E08-A35T
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

1. SPECIFICATION AS-2035E08-A35T

ITEM		SPECIFICATIONS				
01	Туре	Dynamic speaker				
02	Dimension	External diameter 20 mm				
03	Rated Input Power	0.4W.				
04	Max. Input Power	0.8W for 1 minute.				
05	Impedance	8 ohm ± 15% at 2K Hz				
06	Resonance Frequency (Fo)	900 Hz ± 20% at Fo, 1V				
07	Concitivity (C.D.L.)	85dB(0.1W/0.1m) ± 3 dB	o+ AV/E 0.9K 1.0K 1.2K 1.5K U=			
07	Sensitivity (S.P.L.)	99dB(0.8W/0.1m) ± 3 dB	at AVE 0.8K,1.0K,1.2K,1.5K Hz.			
08	Frequency Range	Fo – 20K Hz				
09	Total Harmonics Distortion	Max. 10% at 1K Hz ,0.5W.				
10	Voice Coil	Diameter 8.7 mm				
11	Magnet	Rare earth permanent (NdFeB) magnet Ф8.0 x 1.0 mm				
12	Weight	2.4g ± 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 0.4W				
15	Buzz, Rattle, etc.	Should not be audible at 1.97V 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° $_{\mathbb{C}}$				

2. 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

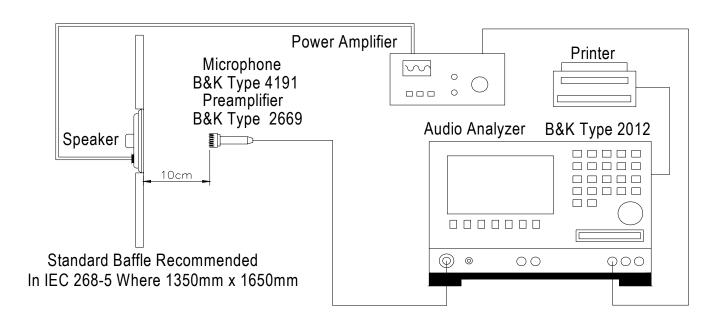
2-2 . Standard Test Fixture

1.Input Power: 0.4W(1.79V)

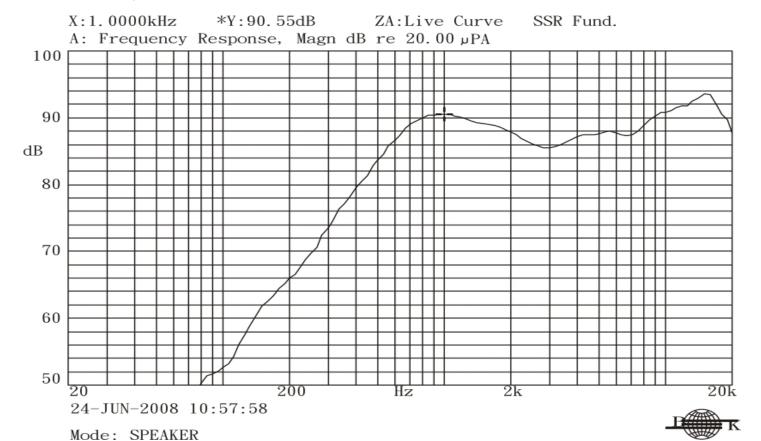
2.Zero Level : -dB 3.Mode : SPEAKER

4.potentiometer Range: 50dB

5.Sweep Time: 0.5sec

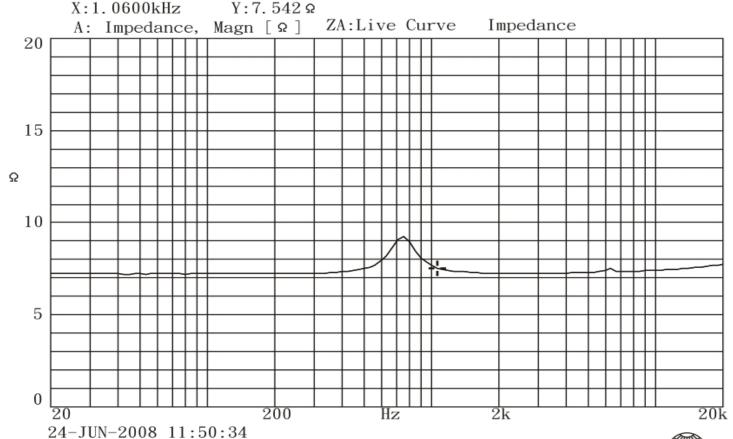


2-3. Frequency Response Curve

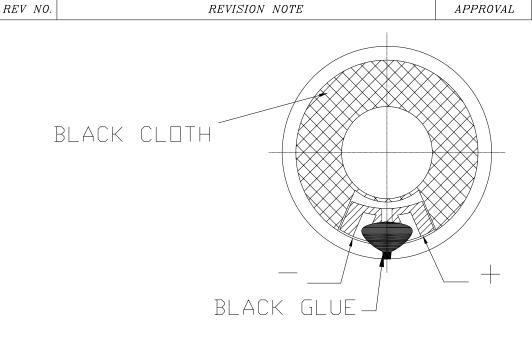


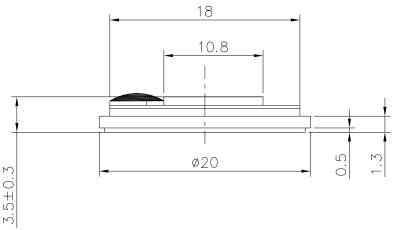
2-4. Impedance Curve

${\tt IMPEDANCE\,MEASUREMENTS: Measurement of\ Impedance\,Z(jw)}$



Mode: Z(jw)

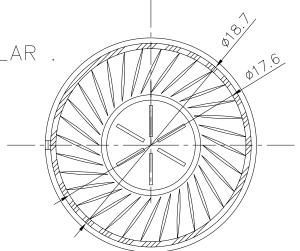




DATE

CASE: Fe alloy.

DIAPHRAGM: BLACK MYLAR



TITLE:	DYNAMIC SPEAKER		DRAWN:	Richard	06/23/2008	SCALE:	2:1	SHEET: 1	of 1
			DEDIGINED. ROLD DELL.			UNITS: mm			
PART NO.	PART NO. $AS-2035E08-A35T$		('H #'('K #'I):			$TOLERANCE \pm 0.2$ $UNLESS OTHERWISE SPECIFIED:$			
DWG NO.		/	APPROVAL.					ECIMAL ± *	
DWG NO.	DTS-1418	REV	MATERIAL: ****		TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***				

A & B Components

3. 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°C±3°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 25°C 0.5hr 6hrs 0.5hr 5hrs				
05	Thermal cycle test.	Low temperature: $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$, temperature: $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 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.				
08	Free drop test	Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.				
09	Load 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.				
Crit	Criterion :					

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

SOLDERING CONDITION

Recommend using constant branding iron in 30W, and in temperature range $350\pm10^{\circ}$ C. Soldering time 2 seconds.