SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER
Part No.	AS-1636D08-A4T
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

1. SPECIFICATION

	ITEM	SPE	CIFICATIONS
01	Туре	Dynamic speaker	
02	Dimension	External diameter 16 mm	
03	Rated Input Power	0.3 W	
04	Impedance	8 ohm ± 15% at 2K Hz	
05	Resonance Frequency (Fo)	780 Hz ± 20% at Fo, 1V	
06	Sonsitivity (S.D.L.)	76dB(W/m) ± 3 dB	
00	Sensitivity (S.P.L.)	90dB(0.3W/0.1m) ± 3 dB	at AVE 0.8K,1.0K,1.2K,1.6K(Hz).
07	Frequency Range	Fo – 12KHz	
08	Total Harmonics Distortion	Less than 8 % at 1 KHz ,1.0V.	
09	Max. Input Power	Must be normal at 0.7W White Noise for 1 minute.	
10	Voice Coil	Diameter 7.2 mm	
11	Magnet	Rare earth permanent (Nd-Fe-B) magnet Φ6.5 x 1mm	
12	Weight	1.8 ± 0.2g	
13	Appearance	Should not exist any obstacl damages, cracks, rusts and	e to be harmful to normal operation; distortions, etc.
14	Operation Test	Must be normal at program source 0.3W	
15	Buzz, Rattle, etc.	Should not be audible at 1.55V 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% Storage temperature: -30%	

2. MEASURING METHOD

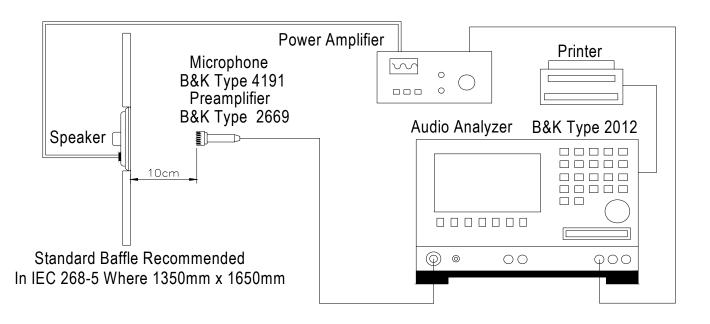
2-1 .Test Condition

STANDARD Temperature : $15 \sim 35^{\circ}$ C Relative humidity : $45\% \sim 85\%$, Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT Temperature : $20\pm3^{\circ}$ C Relative humidity : $60\% \sim 70\%$, Atmospheric pressure : 860mbar to 1060mbar

2-2 . Standard Test Fixture

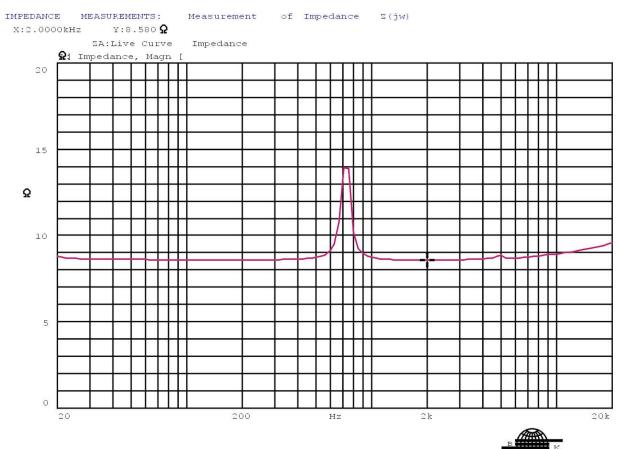
1.Input Power : 0.3W(1.55V)
2.Zero Level : -dB
3.Mode : SPEAKER
4.potentiometer Range : 50dB
5.Sweep Time : 0.5sec



2-3. Frequency Response Curve



2-4. Impedance Curve



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'LE:	DYNAMIC SPEAKE	'R			/2004 SCALE: 2:1 S. UNITS: mm	HEET:10
RT NO.	AS-1636D08-A4T	1	DESIGNED: CHECKED:	R&D DEP.	TOLERANCE ± UNLESS OTHERWIS	0.2 Se speci
G NO.	DTS-1331	REV	APPROVAL: MATERIAL:	****	ONE PLACE DECI TWO PLACE DECI THREE PLACE DI	MAL ± ** MAL ± **
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3. RELIABLITY TESTS

	Items.	Specifications
01	High temp. Test	Keep 96 hours at +70 $^\circ\!\mathrm{C}\pm\!3^\circ\!\mathrm{C}$ and leave 3 hours in normal temperature and then check
02	Low temp. Test	Keep 96 hours at -20 $^\circ\!\mathrm{C}\pm\!3^\circ\!\mathrm{C}$ 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.
04	Temp./Humidity cycle	The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of; $90 \sim 95 \%$ RH $25^{\circ}C$ $90 \sim 95 \%$ RH $90 \sim 95 \%$ RH $90 \sim 95 \%$ RH
05	Thermal cycle test.	Low temperature: $-40^{\circ}C \pm 3^{\circ}C$, 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.
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.