SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER
Part No.	AS-1741E08-A9W1
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

1. SPECIFICATION AS-1741E08-A9W1

	ITEM SPECIFICATIONS		CIFICATIONS		
01	Туре	Dynamic speaker			
02	Dimension	External diameter 17mm			
03	Rated Input Power	1.0 W.			
04	Max. Input Power	1.5W for 1 minute.			
05	Impedance	8 ohm ± 15% at 2K Hz			
06	Resonance Frequency (Fo)	900 Hz ± 20% at Fo, 1V			
07	07 Sensitivity (S.P.L.)	94dB(0.5W/0.1M) ± 3 dB	o+ AV/E 1 OK 1 OK 1 EK OK I I=		
07		97dB(1.0W/0.1M) ± 3 dB	at AVE 1.0K,1.2K,1.5K,2K Hz.		
08	Frequency Range	Fo – 20K Hz			
09	Total Harmonics Distortion	Max. 10% at 1K Hz ,1.0W.			
10	Voice Coil	Diameter 8.5 mm			
11	Magnet	Rare earth permanent (NdFeB) magnet Φ8.2 x 1.2t mm			
12	Weight	1.4g ± 0.3g			
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 15 seconds without resulting in any damage or rejection.			
18	Temperature	Operating temperature: -40℃ to +85℃ Storage temperature: -40℃ to +85℃			

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

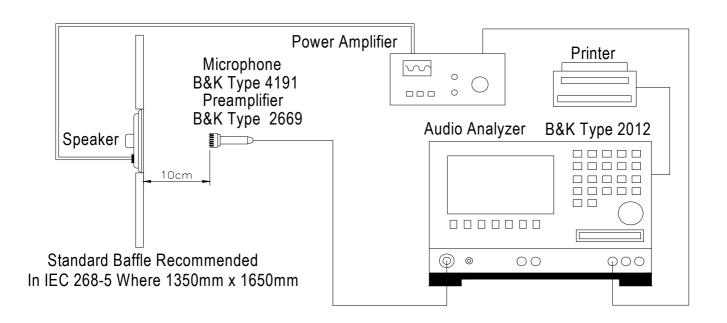
2-2 . Standard Test Fixture

1.Input Power: 1.0W(2.83V)

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

4.potentiometer Range: 50dB

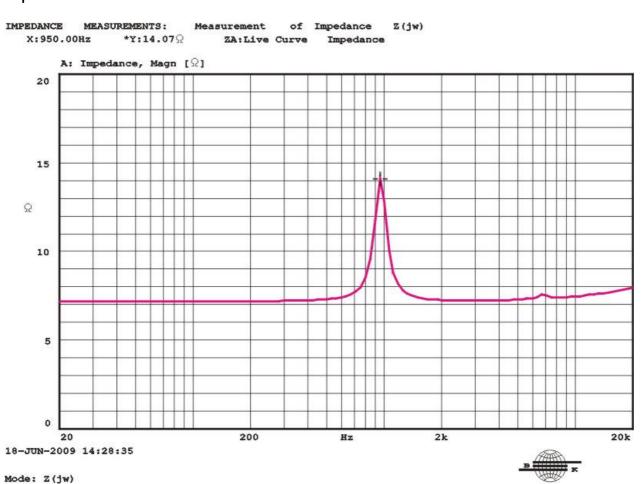
5.Sweep Time: 0.5sec

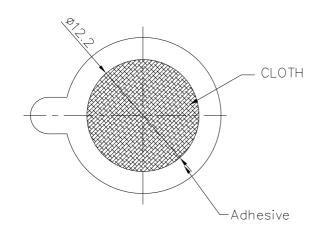


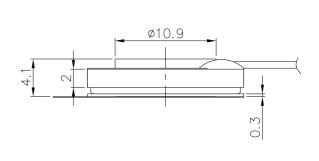
2-3. Frequency Response Curve

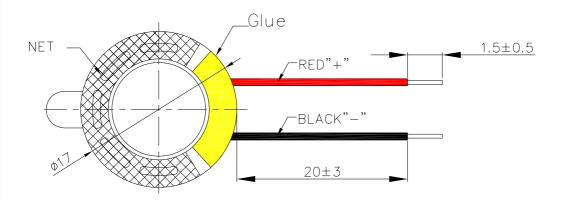


2-4. Impedance Curve









CASE : PBT .

DIAPHRAGM: PEN.

WIRE: UL 1571, 32 AWG.

RoHS

TITLE: DYNAMIC SPEAKER			DRAWN:	Richard	2010/05/14	SCALE:	2:1	SHEET: 1 o	f 1
			DESIGNED:	R&D DEF	•	UNITS: mm			
PART NO.	ART NO. $AS-1741E08-A9W1$		CHECKED:	$egin{array}{lll} HECKED: & & & & & & & & & & & & & & & & & & &$					
DWG NO	WG NO TIC 400544		APPROVAL:			ONE P	ECIMAL ± ***	***	
DWG NO. HS - 100514		REV	MATERIAL:	PBT				ECIMAL ± *** DECIMAL ± ***	
			•						

A & B Components

4. RELIABLITY TESTS

Items.	Specifications	
High temp. Test	Keep 96 hours at $+85^{\circ}$ C $\pm 3^{\circ}$ C and leave 3 hours in normal temperature and then check	
Low temp. Test	Keep 96 hours at -40°C±3°C and leave 3 hours in normal temperature and then check	
Humidity test	Keep 96 hours at $+40^{\circ}$ C $\pm 3^{\circ}$ C relative humidity 92-95% and leave hours in normal temperature and then checked.	
Thermal cycle test.	Low temperature: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$, temperature: $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.	
Vibration	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.	
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.	
Free drop test	Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.	
Load test	Rated Power White noise is applied for 96 hours	
Max Power test	Max power 1 min. on - 2 min. off 10 cycles.	
Terminal strength test	Capable of withstand 1kg load for 15 seconds without resulting in any damage or rejection.	
	High temp. Test Low temp. Test Humidity test Thermal cycle test. Vibration Fix drop test Free drop test Load test Max Power test	

Criterion:

After testing any of the above reliability test items , 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.