SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER
Part No.	AS-7777245B08-R2T
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

1. SPECIFICATION AS-7777245B08-R2T

	ITEM SPECIFICATIONS		CIFICATIONS		
01	Туре	Dynamic speaker			
02	Dimension	External diameter 77x77 mm			
03	Rated Input Power	2.0 W			
04	Max. Input Power	2.5 W			
05	Impedance	8 ohm ± 15% at 1K Hz			
06	Resonance Frequency (Fo)	260 Hz ± 20% at Fo, 1V			
07 S	Constitute (C.D.L.)	84 dB(W/m) ± 3 dB	o+ AV/E 0 6K 0 9K 1 0K 1 2K H=		
	Sensitivity (S.P.L.)	107dB (2.0W/0.1m) ± 3 dB	at AVE 0.6K,0.8K,1.0K,1.2K Hz.		
08	Frequency Range	Fo – 15KHz			
09	Total Harmonics Distortion	Max. 8 % at 1K Hz,2.0W.			
10	Voice Coil	Diameter 13.2 mm			
11	Magnet	Rare earth permanent (Nd-Fe-B) magnet Φ12.5 x 3.0 mm			
12	Weight	42g ± 2g			
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° $_{\mathbb{C}}$			

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

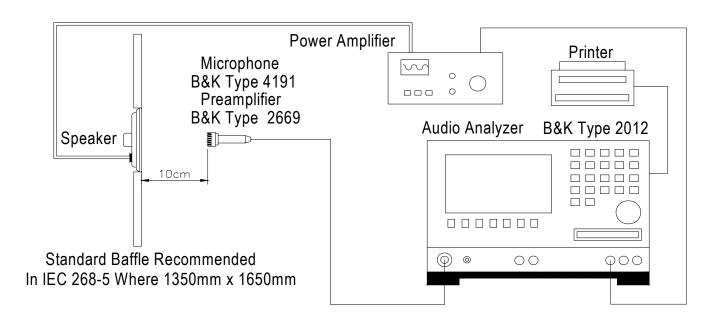
2-2 . Standard Test Fixture

1.Input Power : 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



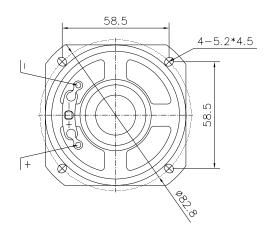
2-4. Impedance Curve

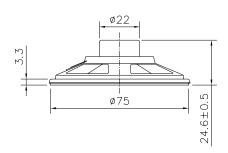
Mode: Z(jw)

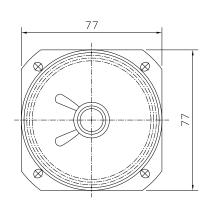
Mode: SPEAKER



REV NO. REVISION NOTE APPROVAL DATE







DYNAMIC SPEAKER		DRAWN:	Richard	10/05/2005	SCALE: 1:2	SHEET: 1 of 1	
			DESIGNED: R&D DEP.		UNITS: mm		
PART NO.	AS-7777245B08-R2T	1	CHECKED:			TOLERANCE	\pm 0.3 RWISE SPECIFIED:
DWG NO.	110		APPROVAL:			ONE PLACE D	
DWG NO.	DTS-1245	REV	MATERIAL:	****			ECIMAL ± *** ' DECIMAL ± ***
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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 $\pm 3^{\circ}$ 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° 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.		

CRITERION:

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