# SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER
Part No.	AS-1035R08-B8W
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

ITEM		SPECIFICATIONS	
01	Туре	Dynamic speaker	
02	Dimension	External diameter 10 mm	
03	Rated Input Power	0.3W	
04	Max. Input Powe	0.5W	
05	Impedance	8 ohm ± 15% at 1500Hz.	
06	Resonance Frequency (Fo)	1050Hz ± 20% at  Fo, 1V	
07	Sensitivity (S.P.L.)	84dB (0.1W / 0.1m) ± 3 dB	at AVE 1.2K 1.5K 2.0K 2.5KHz.
07		88dB (0.3W / 0.1m) ± 3 dB	
08	Frequency Range	Fo – 20KHz	
09	Total Harmonics Distortion	Max 8 % at 1 KHz,0.5W.	
10	Voice Coil	Diameter 5.7 mm	
11	Magnet	Rare earth permanent (Nd-Fe-B) magnet Φ5.2 x 0.8 t mm	
12	Weight	0.6g	
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 – 0.5W	
15	Buzz, Rattle, etc.	Should not be audible at 2.0V 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 $^\circ$ C to +60 $^\circ$ C Storage temperature: -30 $^\circ$ C to +70 $^\circ$ C	

#### 1. MEASURING METHOD

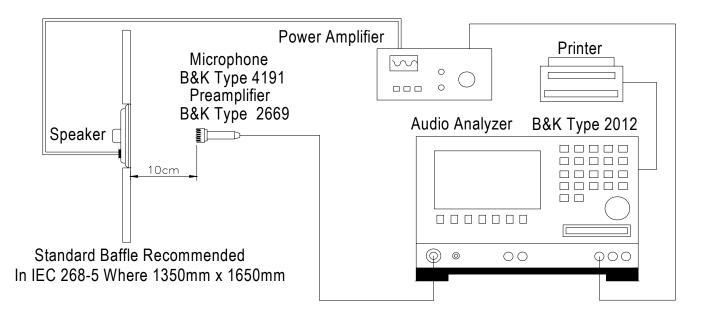
#### 2-1 .Test Condition

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

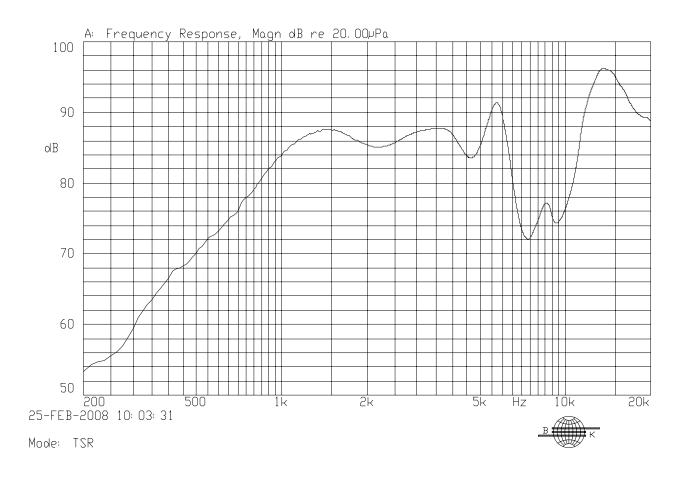
JUDGEMENT Temperature :  $20\pm3^{\circ}$ C Relative humidity :  $60\% \sim 70\%$ , Atmospheric pressure : 860mbar to 1060mbar

#### 2-2 . Standard Test Fixture

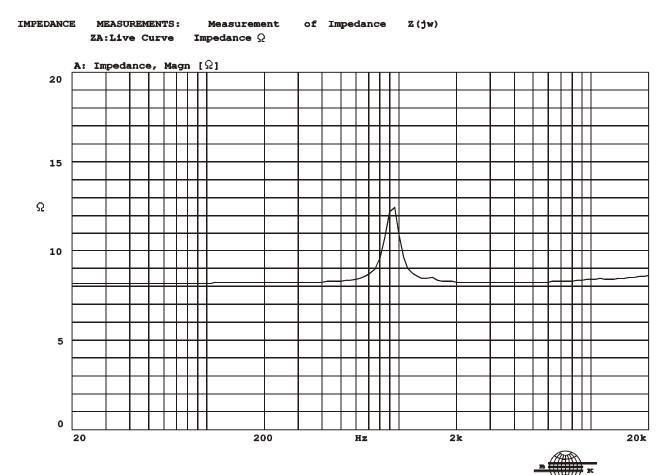
Input Power : 0.3W ( 2.0 V )
Zero Level : -dB
Mode : SPEAKER
potentiometer Range : 50dB
Sweep Time : 0.5sec



#### 2-3. Frequency Response Curve



## 2-4. Impedance Curve



	BLACK PORON		
	Ø7 010 010		
		0±3 1.5±0.5 - RED(+) ACK(-) GLUE	_
	WIRE:U	L1571 AWG32#	
PART NO.	$\begin{array}{c c} DTNAMIC SPEAKER \\ \hline D \\ AS-1035R08-B8W \\ \hline AEK 000022701 \\ \hline AEK 000022701 \\ \hline \end{array}$	PRAWN: <b>Richard</b> 2008/02/27 DESIGNED: R&D DEP. THECKED: PPROVAL: MATERIAL:	SCALE: 2:1 SHEET: 1 of UNITS: mm TOLERANCE ± 0.3 UNLESS OTHERWISE SPECIFIE ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***

### 2. RELIABLITY TESTS

	Items.	Specifications		
01	High temp. Test	Keep 96 hours at +70° $C\pm3$ °C and leave 3 hours in normal temperature and then check		
02	Low temp. Test	Keep 96 hours at $-30^{\circ}C \pm 3^{\circ}C$ 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 $25^{\circ}C$ $90 \sim 95 \%$ RH $90 \sim 95 \%$ RH		
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.		
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	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.		
Crit	Criterion:			

After these test , the change of S.P.L shall be within  $\pm 3 \text{ dB}$  .