SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER	
Part No.	AS-6033180B08-C8C3	
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 + Sound Box	
02	Dimension	External diameter 60 x 33 x 18 mm	
03	Rated Input Power	2.0 W	
04	Impedance	8 ohm ± 15% at 1.5KHz	
05	Resonance Frequency (Fo)	750Hz ± 20% at Fo, 1V	
06	Sensitivity (S.P.L.)	72dB(W/m) ± 3 dB	at AV/E 1.0K 1.2K 1.5K 1.8K Hz
		95dB(2.0W/0.1m) ± 3 dB	at AVE 1.0K,1.2K,1.5K,1.8K Hz.
07	Frequency Range	Fo – 20KHz	
08	Distortion	Less than 8 % at 1K Hz,1.0V.	
09	Max. Input Power	Must be normal at 3.0W white noise for 1 minute.	
10	Voice Coil	Diameter 13.5 mm	
11	Magnet	Rare earth permanent (Nd-Fe-B) magnet Φ12.5 x 2.5mm	
12	Weight	27g ± 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 2.0W	
15	Buzz, Rattle, etc.	Should not be audible at 4V 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 $^\circ$ to +60 $^\circ$ Storage temperature: -30 $^\circ$ to +70 $^\circ$	

2. MEASURING METHOD

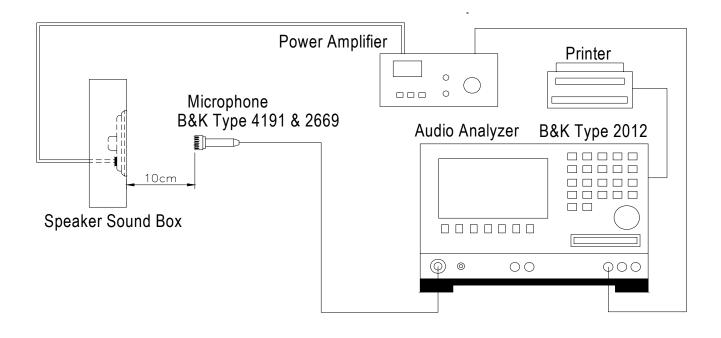
2-1 .Test Condition

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

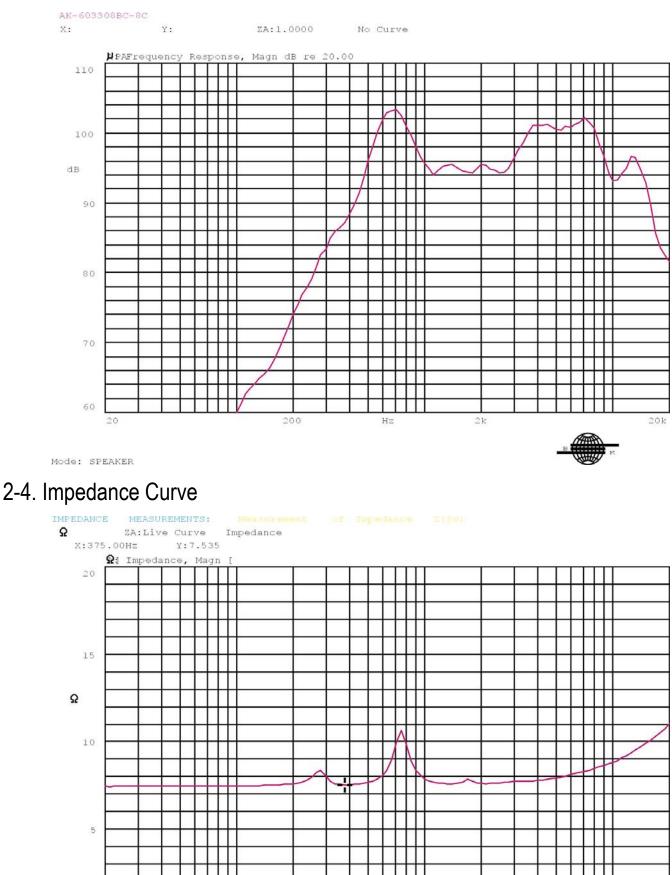
JUDGEMENT Temperature : $20\pm3^{\circ}$ C Relative humidity : $60\% \sim 70\%$, Atmospheric pressure : 860mbar to 1060mbar

2-2 . Standard Test Fixture

1.Input Power : 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



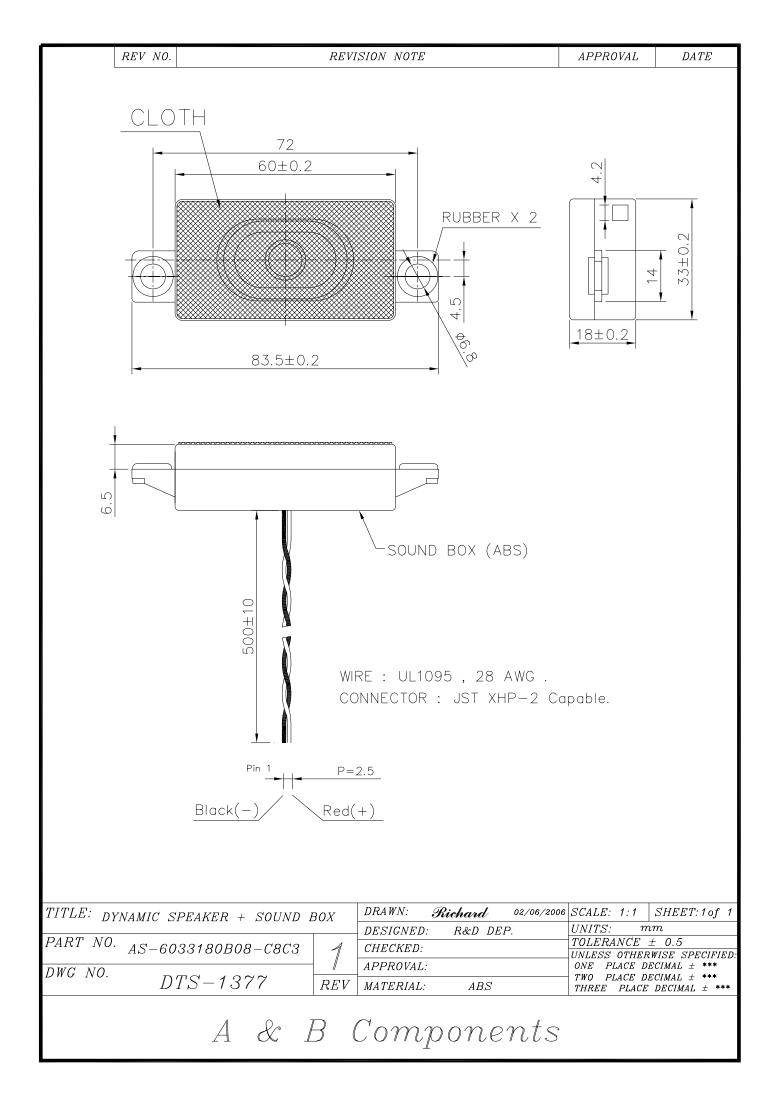
200

Hz

2k

20k

20



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.	