SPECIFICATION FOR APPROVAL

Product	DYNAMIC SPEAKER
Part No.	AS-3223143E04-C1C
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

1. SPECIFICATION

ITEM		SPECIFICATIONS	
01	Туре	Dynamic speaker	
02	Dimension	External diameter 31.8*22.8 mm	
03	Rated Input Power	1.0 W	
04	Impedance	4 ohm ± 15% at 3K Hz	
05	Resonance Frequency (Fo)	1200 Hz ± 20% at Fo, 1V	
06	Sensitivity (S.P.L.)	73dB(W/m) ± 3 dB	at AVE 1.2K,1.6K ,2.0K,3K Hz.
		92dB(1.0W/0.1m) ± 3 dB	al AVE 1.2N, 1.0N, 2.0N, 3N HZ.
07	Frequency Range	Fo – 18KHz	
08	Total Harmonics Distortion	Less than 8 % at 1 KHz.	
09	Max. Input Power	Must be normal at 2.0W white noise for 1 minute.	
10	Voice Coil	Diameter 9.0 mm	
11	Magnet	Rare earth permanent (Nd-Fe-B) magnet Φ8 x 1.5mm	
12	Weight	32g ± 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 1.0W	
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% Storage temperature: -30%	

2. MEASURING METHOD

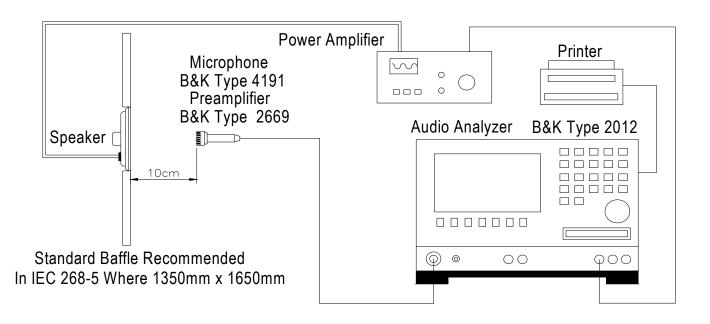
2-1 .Test Condition

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

Input Power : 1.0W(2.0V)
Zero Level : -dB
Mode : SPEAKER
potentiometer Range : 50dB
Sweep Time : 0.5sec



2-3. Frequency Response Curve



2-4.Impedance Curve



REV NO.	REVISI	ON NOTE	APPROVAL	DATE
		0 60±5 1.8 260±5 1.6 1.6	White(+) Blue(-) Blue(-) Pin 1 Pin 1	DATE
TITLE: DYNAMIC PART NO. AS-322314	CONNECTOR	571 , 30 AWG . : MOLEX 51021–040 : MOLEX <i>51021–040</i> : <i>RAWN: <i>Richard</i> ²⁰⁰ : <i>R&D DEP</i>. : <i>HECKED</i>:</i>	06–05–08 SCALE: 1:1 S UNITS: mm TOLERANCE ±	0.2
DWG NO. DTS-		PPROVAL: (ATERIAL: *****	UNLESS OTHERW. ONE PLACE DEC TWO PLACE DEC THREE PLACE D	'IMAL ± *** 'IMAL ± ***
A	& B Co	mponents	S	

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; $90 \sim 95 \% \text{ RH}$ $25^{\circ}C$ $90 \sim 95 \% \text{ RH}$ $90 \sim 95 \% \text{ RH}$
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.