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# SPECIFICATION FOR APPROVAL

<b>PRODUCT</b>	<b>DYNAMIC receiver</b>
<b>PART NO.</b>	<b>AR-3055B32-10T</b>
<b>CUSTOMER APPROVAL</b>	

<b>APPROVED BY</b>	<b>CHECKED BY</b>	<b>MADE BY</b>



**A & B Components**

<http://www.speaker-tw.com>

# 1. SPECIFICATION

AR-3055B32-10T

ITEM		SPECIFICATIONS
01	Type	Dynamic 30mm receiver unit
02	SENSITIVITY (S.P.L)	118 dB $\pm$ 3 dB at 1KHz 180mV with IEC318 coupler.
03	Impedance	32 $\Omega$ $\pm$ 15% at 1.0 KHz
04	Frequency Range	100 – 10K Hz
05	Rated Input Power	10 m W
06	Max. Input Power	30 m W
07	Total Harmonics Distortion	Max 10 % at 1 KHz,10 m W.
08	Operating temperature	-20°C to +60°C
09	Storage temperature	-30°C to +70°C
10	Weight	5.7g $\pm$ 1.7g

## 2. MEASURING METHOD

### 2-1 .Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

#### JUDGEMENT

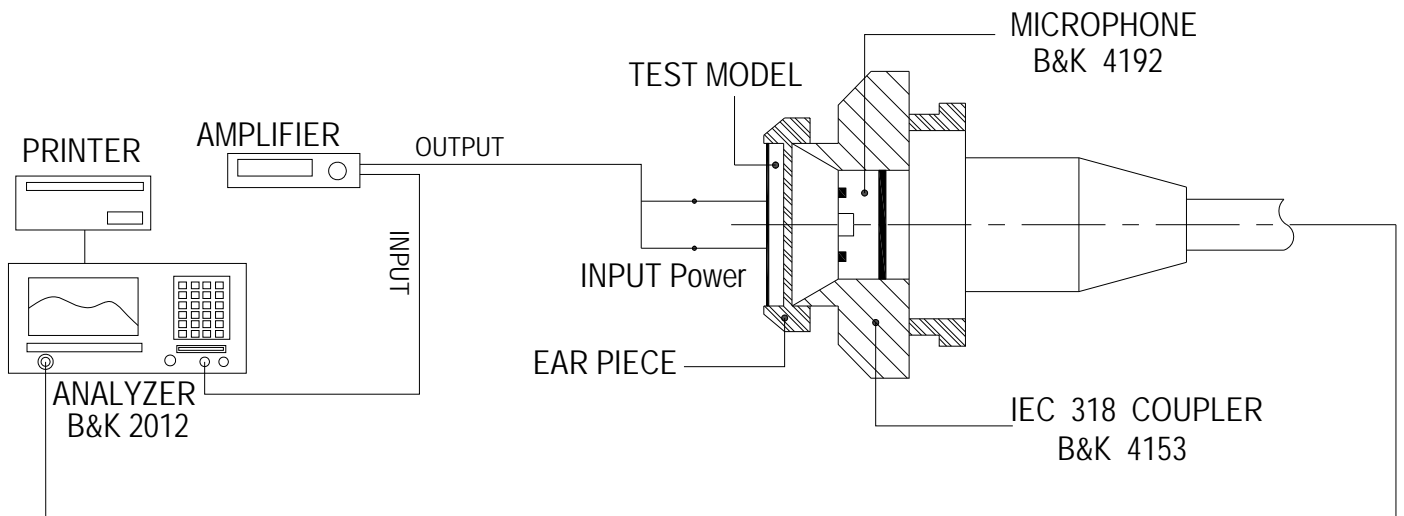
Temperature : 20 $\pm$ 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

## 2-2 .Standard Test Fixture

Input power 180mV



## 2-3 Frequency Response Curve

X:1.0000kHz Y:119.89dB ZA:Live Curve SSR Fund.

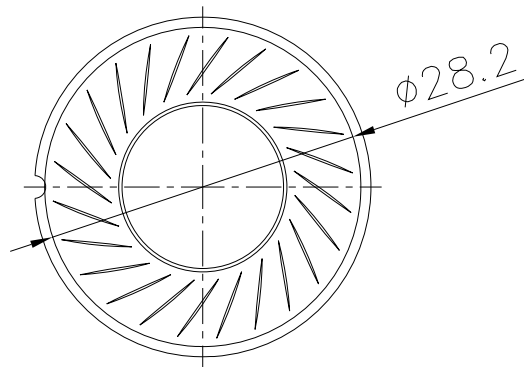
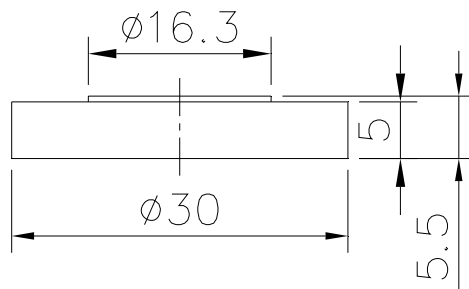
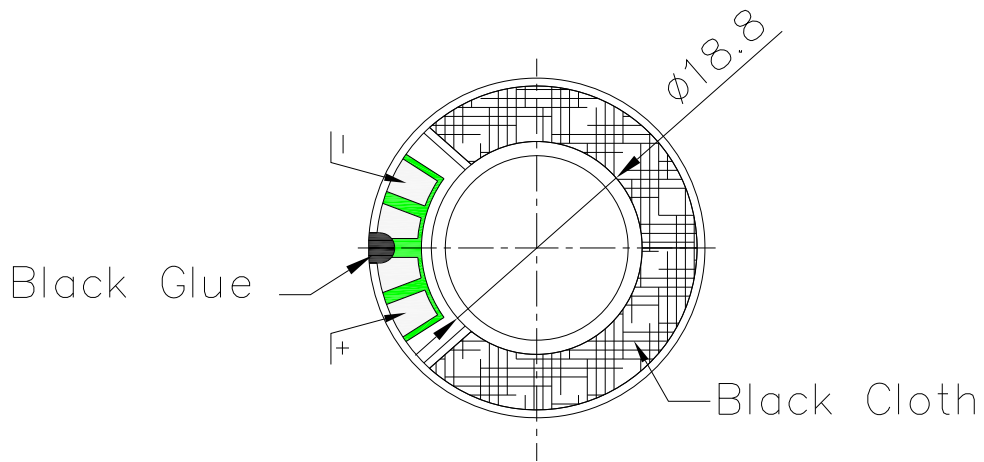


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Mode: SSR



REV NO.	REVISION NOTE	APPROVAL	DATE
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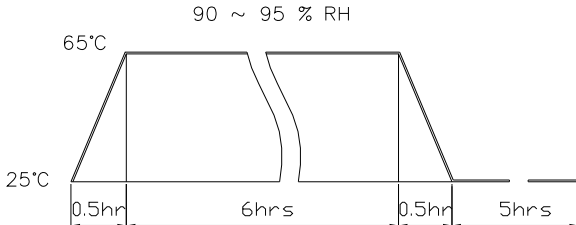
DIAPHRAGM : PET .

RoHS

TITLE: DYNAMIC RECEIVER		DRAWN: Richard 2010-08-25	SCALE: 2:1	SHEET: 1:1
PART NO. AR-3055B32-10T		DESIGNED: R&D DEP.	UNITS: mm	
DWG NO. CA-10082501	1 REV	CHECKED:	TOLERANCE ± 0.5	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
		MATERIAL: ABS		

A & B Components

## 4. RELIABILITY TESTS

Items.		Specifications
01	<b>High temp. Test</b>	Keep 96 hours at $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
02	<b>Low temp. Test</b>	Keep 96 hours at $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
03	<b>Humidity test</b>	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 95% and leave 3 hours in normal temperature and then checked.
04	<b>Temp./Humidity cycle</b>	<p>The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of</p> 
05	<b>Thermal cycle test.</b>	Low temperature: $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , temperature: $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
06	<b>Vibration</b>	10-55~10Hz sin-wave sweep 15min. 5G(constant) X, Y, Z 3 direction. 2 hours each, total 6 hours.
07	<b>Fix drop test</b>	Fix on jig. Then drop from 152cm height to the concrete floor X, Y, Z 6 direction. 5 times each, total 30 times.
08	<b>Free drop test</b>	Free drop from 100cm height to the concrete floor X, Y, Z 6 direction. 1 time each, total 6 times.
09	<b>Load test</b>	Rated power white noise is applied for 96 hours
10	<b>Max Power test</b>	Max power 1 min. on - 2 min. off 10 cycles.
11	<b>Terminal strength test</b>	Capable of withstand 1kg load for 15 seconds without resulting in any damage or rejection.

### Criterion :

1. **After testing any of the above reliability test items, the change of S.P.L shall be within  $\pm 3$  dB.**
2. **If you need more information, please contact our technology department, thank you.**

## SOLDERING CONDITION

Recommend using constant searing-iron in temperature range  **$330 \pm 5^{\circ}\text{C}$** .

Soldering time **2** seconds.