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# SPECIFICATION FOR APPROVAL

Product	DYNAMIC RECEIVER
Part No.	AR-1336R32-38W
Customer Approval	

Approved By	Checked By	Made By



A & B COMPONENTS

[HTTP://WWW.SPEAKER-TW.COM](http://www.speaker-tw.com)

## 1. SPECIFICATION

AR-1336D32-38W

ITEMS.		SPECIFICATIONS
01	Type	Dynamic 13.0mm receiver unit
02	Sensitivity (S.P.L)	111dB $\pm$ 3 dB at 1kHz 180mV with IEC 318 coupler
03	Impedance.	32 Ohm $\pm$ 15% at 1KHz
04	Magnet Field Intensity.	Axial – dB , Radial –dB at 1KHz
05	Nominal Input Power	10mW
06	Max. Input Power.	Must be normal at a white noise , 30mW for 1 minute.
07	Total Harmonics Distortion	Max 5 % at 1K Hz.
08	Operation temperature	-20°C to +60°C
09	Storage temperature	-30°C to +70°C
10	Weight.	1.3g $\pm$ 0.3g

## 2. MEASURING METHOD

### 2-1. Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

#### JUDGEMENT

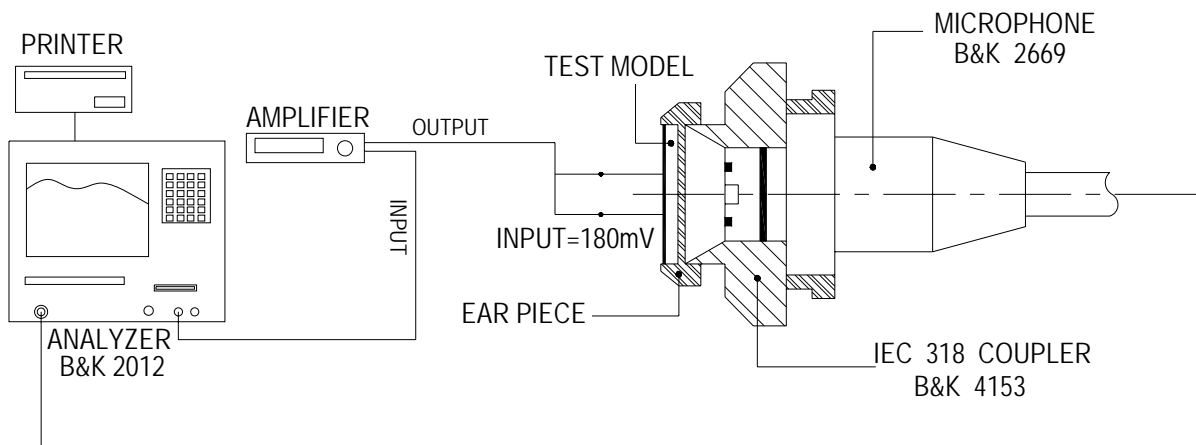
Temperature : 20 $\pm$ 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

## 2-2. Standard Test Fixture

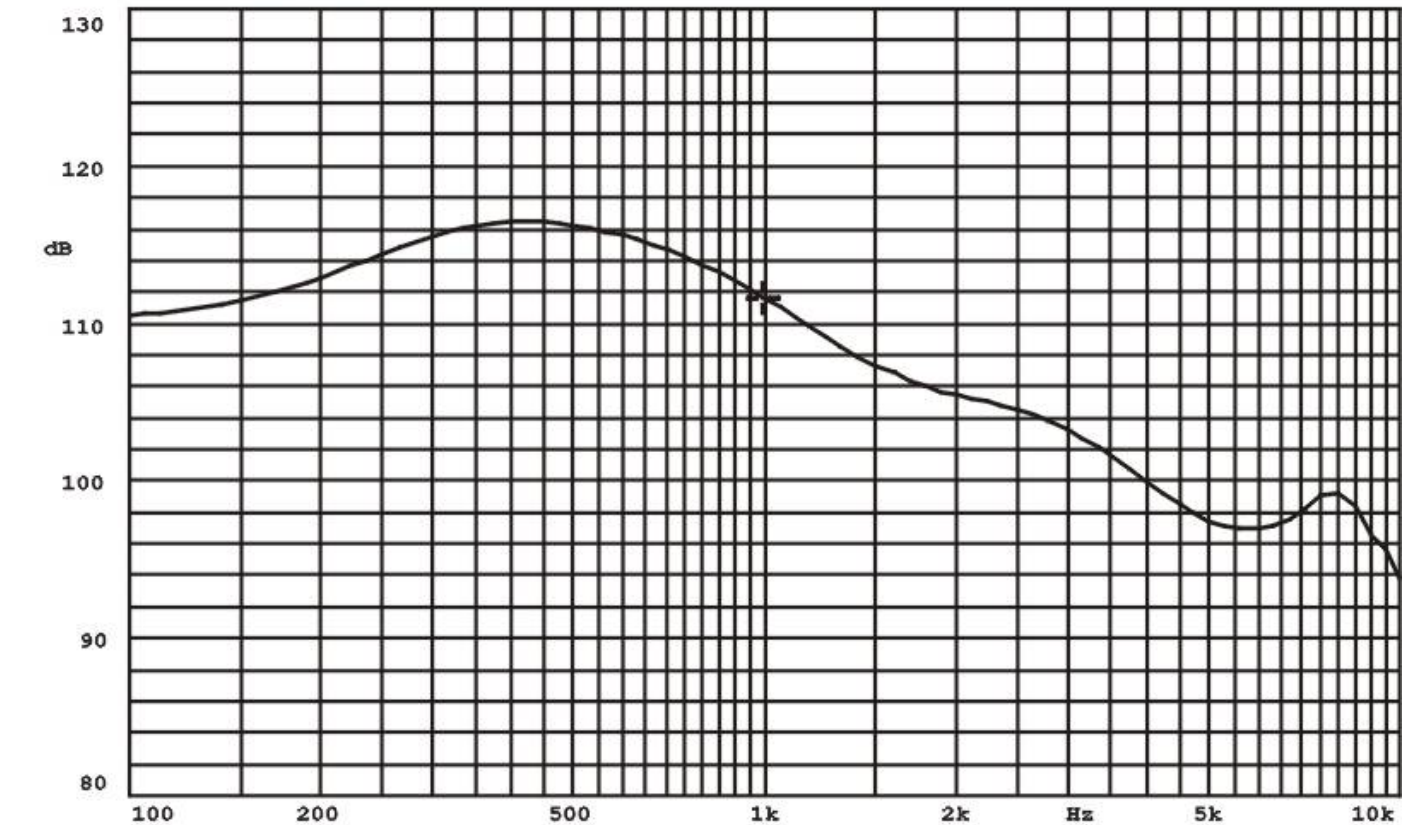
Input signal : 180mV



## 2.3 2Frequency Response Curve

X:1.0000kHz \*Y:111.62dB ZA:Live Curve SSR Fund.

A: Frequency Response, Magn dB re 20.00μPa/V

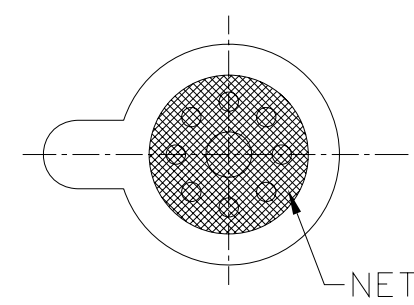
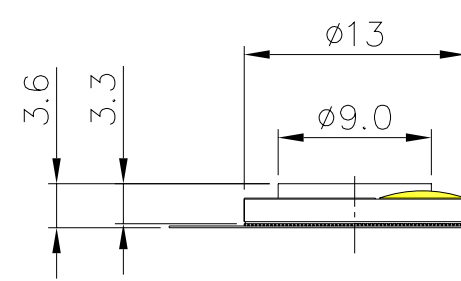
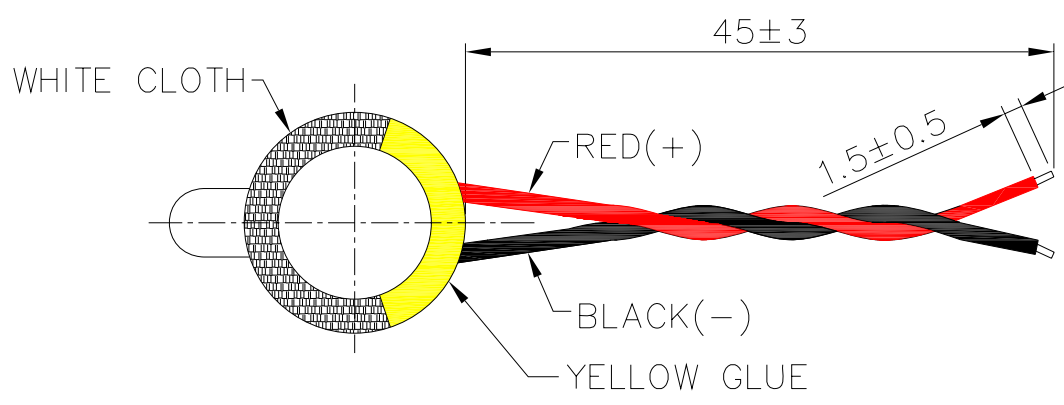


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Mode: Receiver



REV NO.	REVISION NOTE	APPROVAL	DATE
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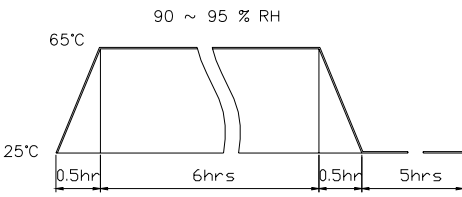


WIRE: UL1571,32AWG

TITLE: <i>DYNAMIC RECEIVER</i>		DRAWN: <i>Richard</i> 2009-7-30	SCALE: 3:1	SHEET: 1 of 1
PART NO. <i>AR-1336D32-38W</i>	1	DESIGNED: <i>R &amp; D DEP.</i>	UNITS: <i>mm</i>	TOLERANCE $\pm 0.3$
DWG NO. <i>A-R09073001</i>		CHECKED:	UNLESS OTHERWISE SPECIFIED:	
	REV	APPROVAL:	ONE PLACE DECIMAL $\pm$ ***	
		MATERIAL: <i>PBT</i>	TWO PLACE DECIMAL $\pm$ ***	
			THREE PLACE DECIMAL $\pm$ ***	

*A & B Components*

## 4. RELIABILITY TESTS

ITEMS.		SPECIFICATIONS
01	High temp. Test	Keep 96 hours at $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
02	Low temp. Test	Keep 96 hours at $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
03	Humidity test	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 90% and leave 3 hours in normal temperature and then checked.
04	Temp./humidity cycle	<p>The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;</p> 
05	Thermal Cycle Test.	Low temperature: $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , temperature: $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
06	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.

## 5.SOLDERING CONDITION

Recommend using constant branding iron in **30W**, and in temperature range  **$350 \pm 10^{\circ}\text{C}$** .

**SOLDERING TIME 2 SECONDS**