
SPECIFICATION FOR APPROVAL

Product	DYNAMIC RECEIVER
Part No.	AR-1538D32-19W
Customer Approval	

Approved By	Checked By	Made By



A & B COMPONENTS

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

1. SPECIFICATION

ITEMS.		SPECIFICATIONS
01	Type	Dynamic 15mm receiver unit
02	Sensitivity (S.P.L)	115dB \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	1 mW
06	Max. Input Power.	Must be normal at a white noise , 2mW for 1 minute.
07	Total Harmonics Distortion	Max 8 % 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

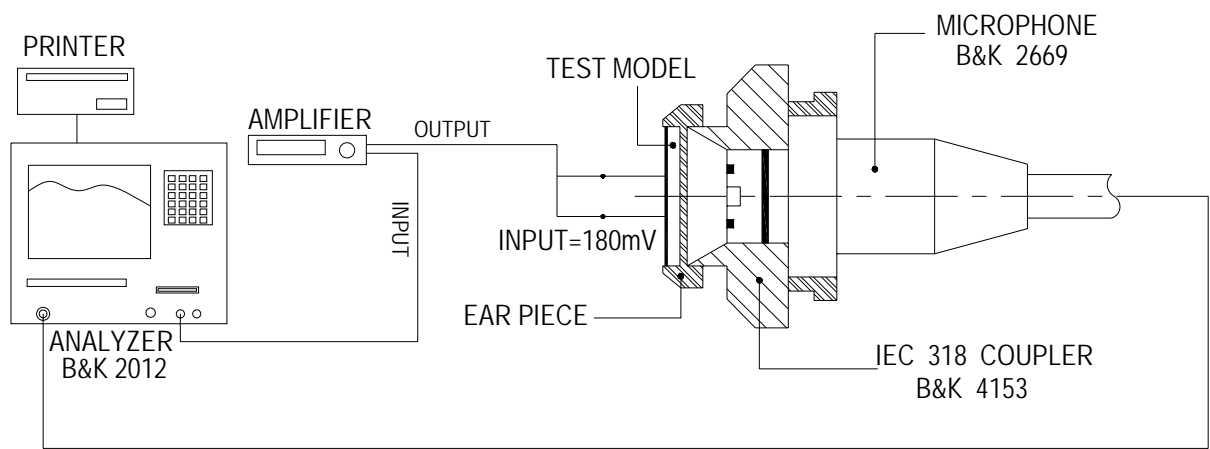
Temperature : 20 \pm 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

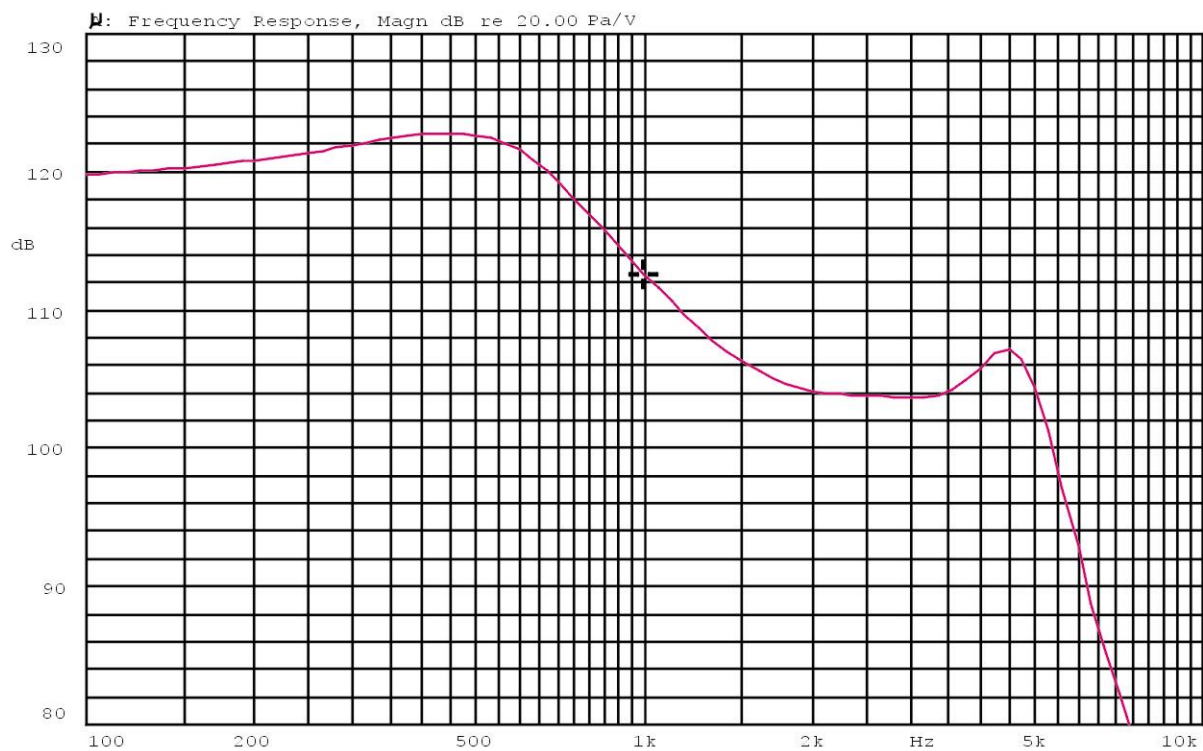
2-2. Standard Test Fixture

Input signal : 180mV



2.3 2Frequency Response Curve

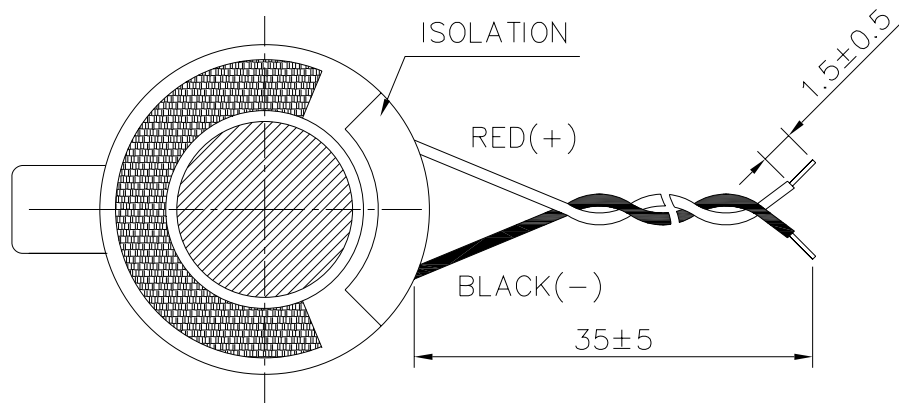
X:1.0000kHz *Y:112.56dB ZA:Live Curve SSR Fund.



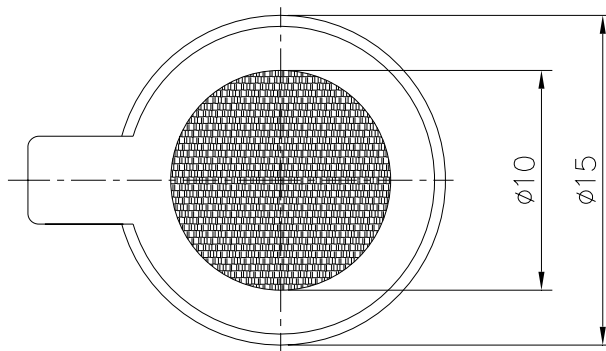
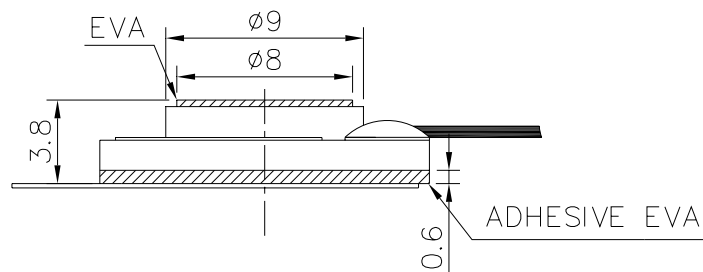
Mode: Receiver



REV NO.	REVISION NOTE	APPROVAL	DATE
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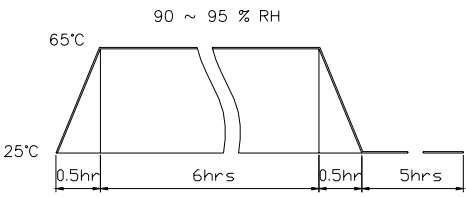
WIRE : UL1571 AWG32



TITLE:	DYNAMIC RECEIVER	DRAWN:	Richard	09/13/2004	SCALE:	3:1	SHEET:	1 of 1
PART NO.	AR-1538D32-19W	DESIGNED:	R & D DEP.	CHECKED:	UNITS:	mm	TOLERANCE	± 0.2
DWG NO.	DTR-1084	APPROVAL:		MATERIAL:	UNLESS OTHERWISE SPECIFIED:	ONE PLACE DECIMAL ± ***	TWO PLACE DECIMAL ± ***	THREE PLACE DECIMAL ± ***
		REV	1					

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: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 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	DC Voltage test	DC 0.25V for 1 hour.
10	Load test	Rated power white noise is applied for 96 hours
11	Max Power test	Max Power 1 minute on – 1 minute off 10 cycles.