
SPECIFICATION FOR APPROVAL

Product	DYNAMIC RECEIVER
Part No.	AR-2040A150-2T
Customer Approval	

Approved By	Checked By	Made By



A & B COMPONENTS

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

1. SPECIFICATION

AR-2040A150-2T

ITEMS.		SPECIFICATIONS	
01	Type	Dynamic 20mm receiver unit	
02	Sensitivity (S.P.L)	92dB \pm 3 dB at 1kHz 100mV with IEC 318 coupler	
03	Impedance.	150 Ohm \pm 15% at 1KHz	
04	Magnet Field Intensity.	Axial \geq -19 dB	1KHz / 100mV (0dB = 1A /m)
		Radial \geq -22dB	
05	Nominal Input Power	30 mW	
06	Max. Input Power.	50 mW	
07	Total Harmonics Distortion	Max 5 % at 1K Hz.	
08	Operation temperature	-30°C to +75°C	
09	Storage temperature	-40°C to +85°C	
10	Weight.	3.5g \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

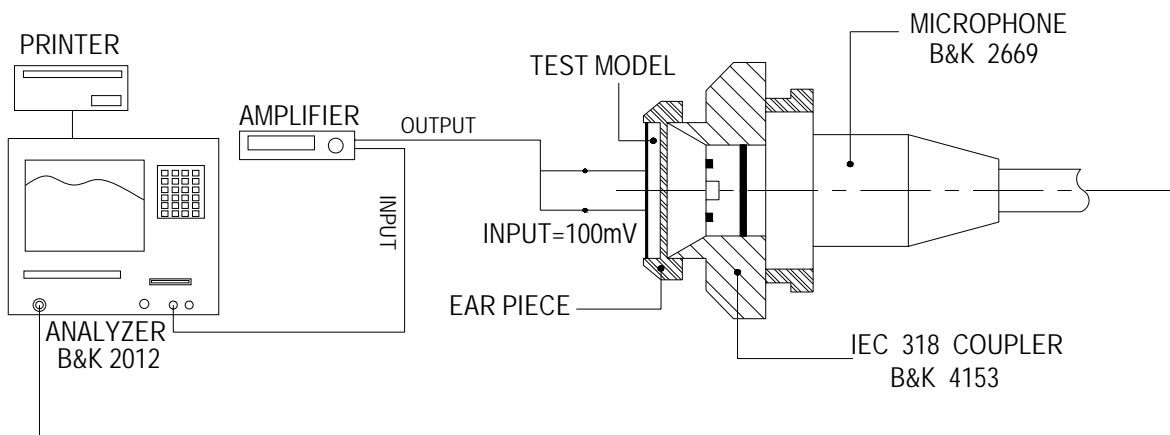
Temperature : 20 \pm 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

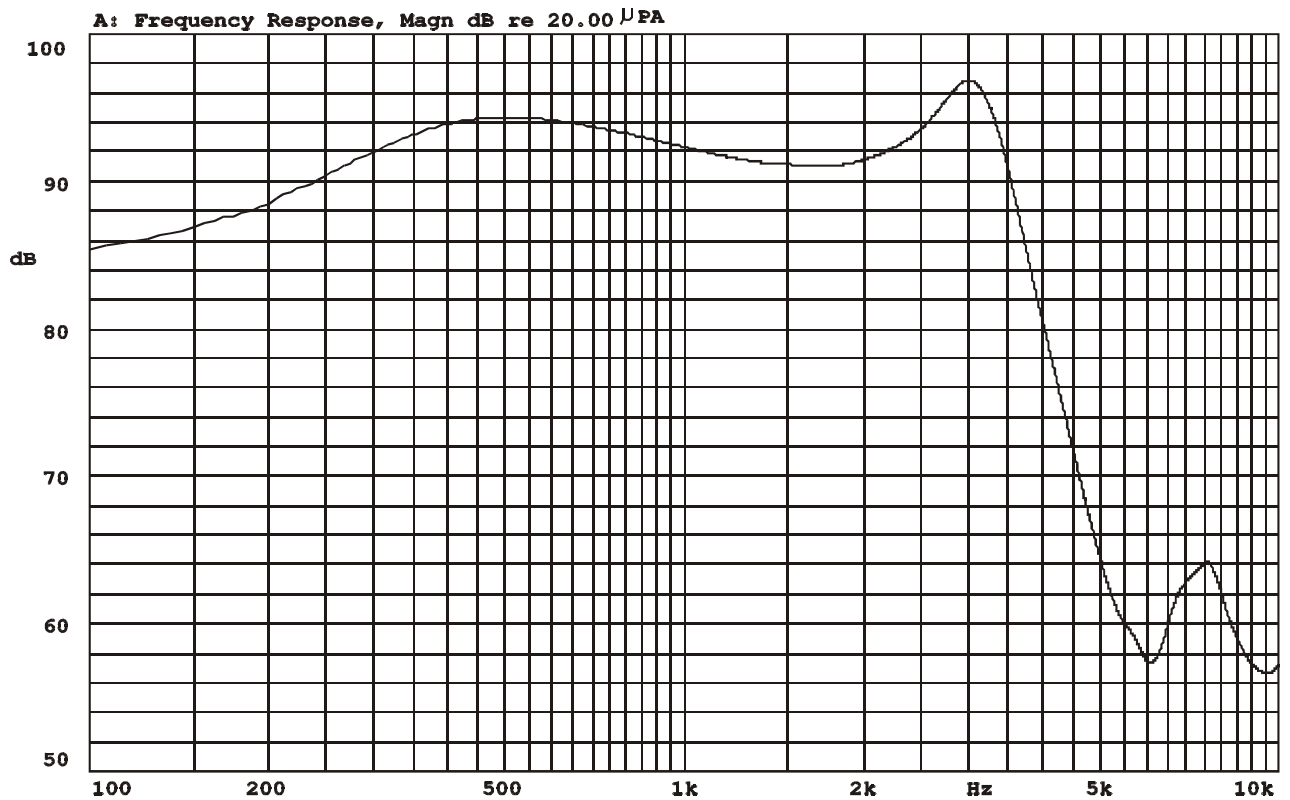
2-2. Standard Test Fixture

Input signal : 100mV



2.3 2Frequency Response Curve

X:1.0054kHz Y:92.32dB ZA:Live Curve TSR fund.



Mode: TSR



Magnet Field Intensity.

受 话 器

JH6160(R) 型 电 声 测 试 仪

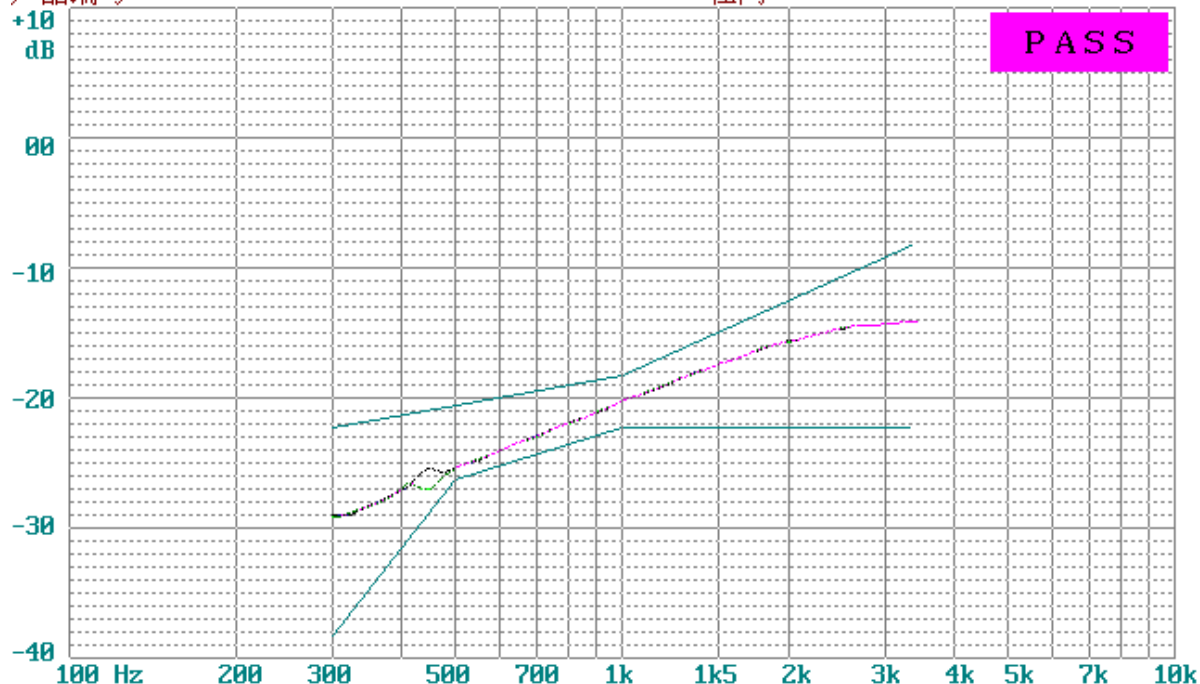
01/04/2005 20:23

产品型号:CY-201

1kHz H.A.C. : -020.3 dB (轴向)

产品编号:0001

1kHz H.A.C. : 000.0 dB (径向)



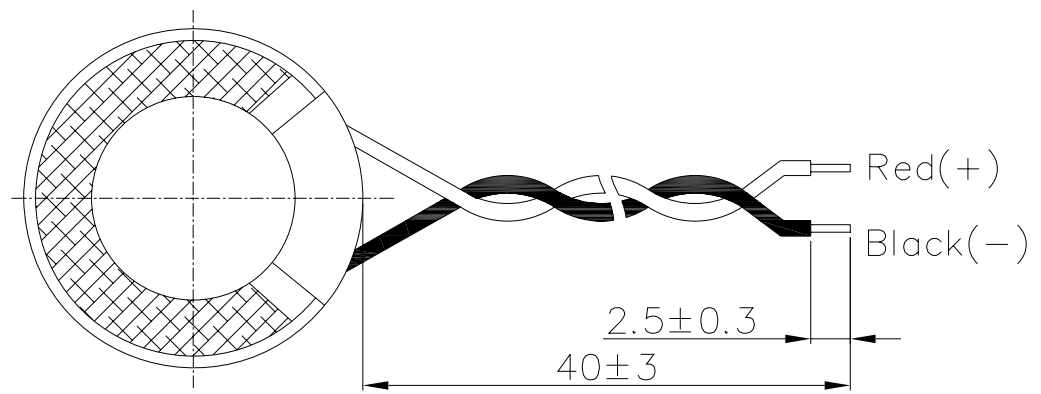
测试电压: 60 mVAC

磁场感应器: M130

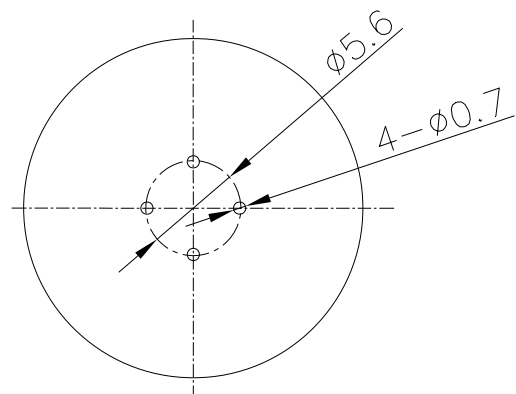
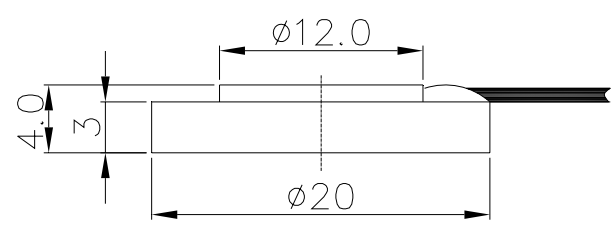
零dB参考值 1V/(A/M)M

↑↓:速度 F1:设置 F2:下一项 F3:记忆 F4:打印 F5:保存 F6:中/英 ESC:退出

REV NO.	REVISION NOTE	APPROVAL	DATE
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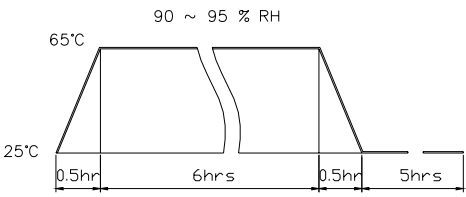
Wire: UL1571, 30AWG



TITLE: DYNAMIC RECEIVER		DRAWN: Richard 2006/03/07	SCALE: 3:1	SHEET: 1 of 1
PART NO. AR-2040A150-2T		DESIGNED: R & D DEP.	UNITS: mm	
DWG NO. DRE-1108	1 REV	CHECKED:	TOLERANCE ± 0.2	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
		MATERIAL: *****	ONE PLACE DECIMAL \pm *** TWO PLACE DECIMAL \pm *** THREE PLACE DECIMAL \pm ***	

A & B Components

4. RELIABILITY TESTS

ITEMS.		SPECIFICATIONS
01	High temp. Test	Keep 96 hours at $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
02	Low temp. Test	Keep 96 hours at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 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>  <p style="text-align: center;"> 65°C $90 \sim 95 \% \text{ RH}$ 25°C 0.5hr 6hrs 0.5hr 5hrs </p>
05	Thermal Cycle Test.	Low temperature: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$, temperature: $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 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 minute on – 2 minute off 10 cycles.

Criterion :

After these test , the change of S.P.L shall be within $\pm 3 \text{ dB}$.