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# SPECIFICATION FOR APPROVAL

|                   |                  |
|-------------------|------------------|
| Product           | DYNAMIC RECEIVER |
| Part No.          | URP35150-01H     |
| Customer Approval |                  |

| Approved By | Checked By | Made By |
|-------------|------------|---------|
|             |            |         |



A & B COMPONENTS

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

# 1. SPECIFICATION

URP35150-01H

| ITEMS. |                            | SPECIFICATIONS   |
|--------|----------------------------|--|
| 01     | Type                       | Dynamic 34.8 mm receiver + HAC                           |
| 02     | Sensitivity (S.P.L)        | 98dB $\pm$ 2 dB at 1K Hz 60mV with IEC 318 coupler       |
| 03     | Impedance.                 | 150 Ohm $\pm$ 15% at 1KHz                                |
| 04     | DC Resistance              | 150 Ohm $\pm$ 15%  |
| 04     | Magnet Field Intensity.    | Axial $\geq$ - 19dB A/m, Radial $\geq$ -22dB A/m at 1KHz |
| 05     | Nominal Input Power        | 10mW   |
| 06     | Max. Input Power.          | 20mW   |
| 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.                    | 32g $\pm$ 5g   |

## 2. MEASURING METHOD

### 2-1. Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

#### JUDGEMENT

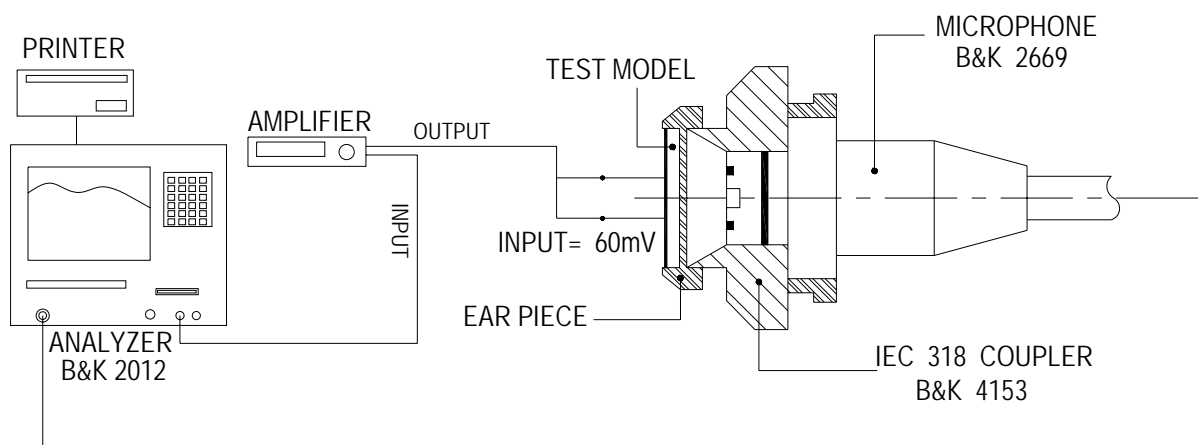
Temperature : 20 $\pm$ 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

## 2-2. Standard Test Fixture

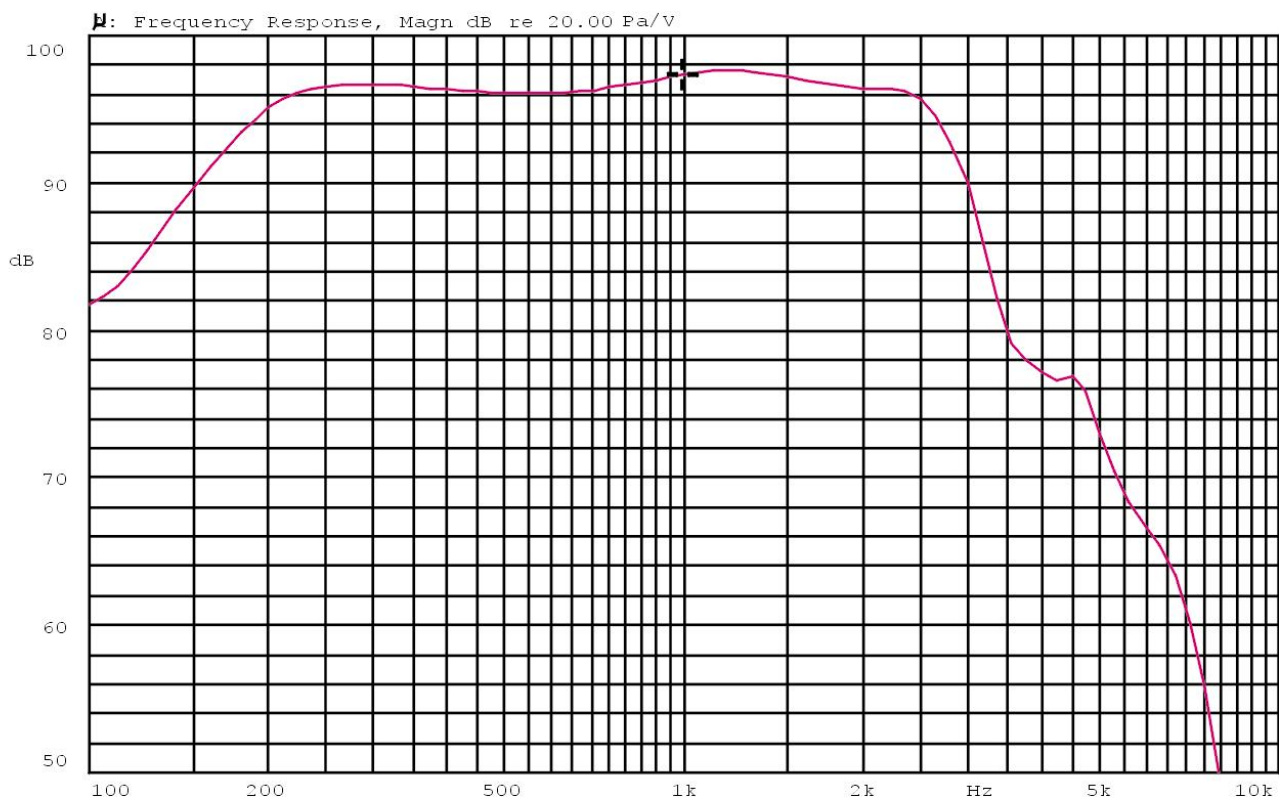
Input signal : 60mV



## 2.3 2Frequency Response Curve

URP35150-01H

X:1.0000kHz Y:97.38dB ZA:Live Curve SSR Fund.



Mode: Receiver



## 2.4 Magnet Field Intensity.

受话器

JH6160(R) 型电声测试仪

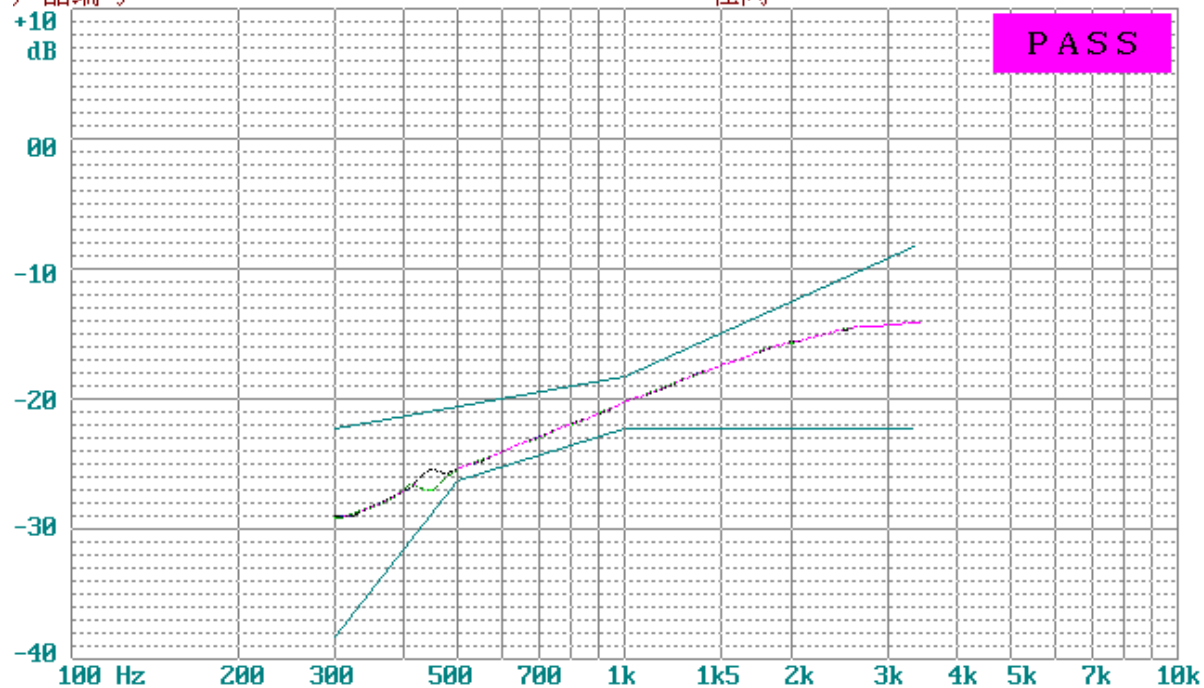
01/04/2005 20:23

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)



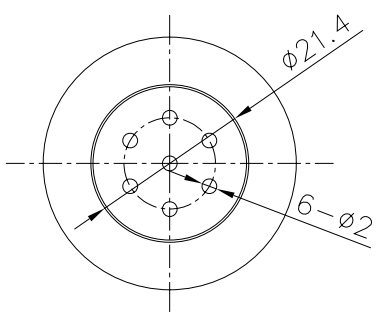
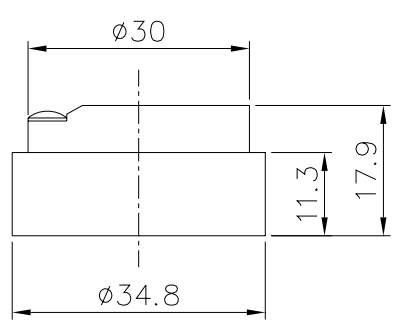
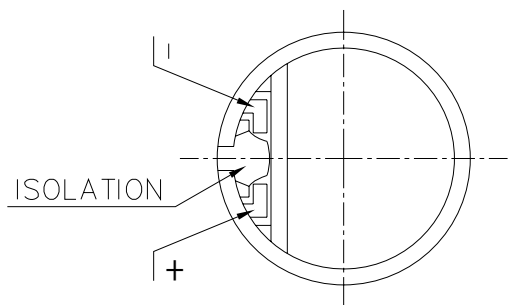
测试电压: 60 mVAC

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 |
|---------|---------------|----------|------|



|                           |  |                                  |                             |            |
|---------------------------|--|----------------------------------|-----------------------------|------------|
| TITLE: TELEPHONE RECEIVER |  | DRAWN: <i>Richard</i> 09/19/2006 | SCALE: 1:1                  | SHEET: 1:1 |
| PART NO. URP35150-01H     |  | DESIGNED: R&D DEP.               | UNITS: mm                   |            |
| DWG NO. DTR-1068          |  | CHECKED:                         | TOLERANCE ± 0.3             |            |
|                           |  | APPROVAL:                        | UNLESS OTHERWISE SPECIFIED: |            |
| REV 1                     |  | MATERIAL: *****                  | ONE PLACE DECIMAL ± ***     |            |
|                           |  |                                  | TWO PLACE DECIMAL ± ***     |            |
|                           |  |                                  | THREE PLACE DECIMAL ± ***   |            |

*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 $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 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: $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , temperature: $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , cycle: 1 hour/cycle each, and then keep 5 cycles in a room. |
| 06   | 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.   |
| <p>Criterion :</p> <p>After these test , the change of S.P.L shall be within <math>\pm 3</math> dB .</p> |                      |   |

## SOLDERING CONDITION

Recommend using constant branding iron in 30W, and in temperature range  $350 \pm 10^{\circ}\text{C}$ .  
Soldering time 2 seconds.