

MESSRS.

**SPECIFICATION FOR APPROVAL**  
**承 认 书**

|                   |                           |
|-------------------|---------------------------|
| PRODUCT           | WATERPROOF TYPE RECEIVER  |
| PART NO.          | NPR0809B-J-04-02Y6 (ROHS) |
| CUSTOMER          |                           |
| CUSTOMER PART NO. |                           |

| APPROVED BY        | CHECKED BY         | MADE BY             |
|--------------------|--------------------|---------------------|
| 王台平<br>JAN-19-2026 | 曹丽萍<br>JAN-19-2026 | LILY<br>JAN-19-2026 |

**常州华龙电子有限公司**  
Chang zhou Dragon State Electronic Co., Ltd

中国江苏省常州市新区电子园新四路 36 号

TEL: +86-519-85110078. 86-519-85106698, FAX: +86-519-85101081



華龍電子  
HUAROM SOUND

*Changzhou Dragon State Electronic Co., Ltd*

## HISTORY CHANGE RECORD

## 1. Specification

NPR0809B-J-04-02Y6 (RoHS)

| ITEMS. |                            | SPECIFICATIONS                                     |
|--------|----------------------------|--|
| 01     | Type                       | Dynamic 08 x 09mm receiver unit                    |
| 02     | Sensitivity (S.P.L)        | 123dB ±3 dB at 1kHz 1.26V                          |
| 03     | Impedance.                 | 30 Ohm ±20%  |
|        | DC Resistance              | 28 Ohm ±15%  |
| 04     | Resonance Frequency (FO)   | 500HZ ± 10% AT FO, 1.26V                           |
| 05     | Magnet Field Intensity.    | Axial – dB , Radial –dB at 1KHz                    |
| 06     | Nominal Input Power        | 50 mW  |
| 07     | Max. Input Power.          | Must be normal at a white noise,30mW for 1 minute. |
| 08     | Total Harmonics Distortion | Max 10 % at 1K Hz.                                 |
| 09     | Operation temperature      | -30°C to +70°C                                     |
| 10     | Storage temperature        | -40°C to +85°C                                     |

## 2. Measuring method

### 2-1. Test Condition

#### Standard

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

#### Judgement

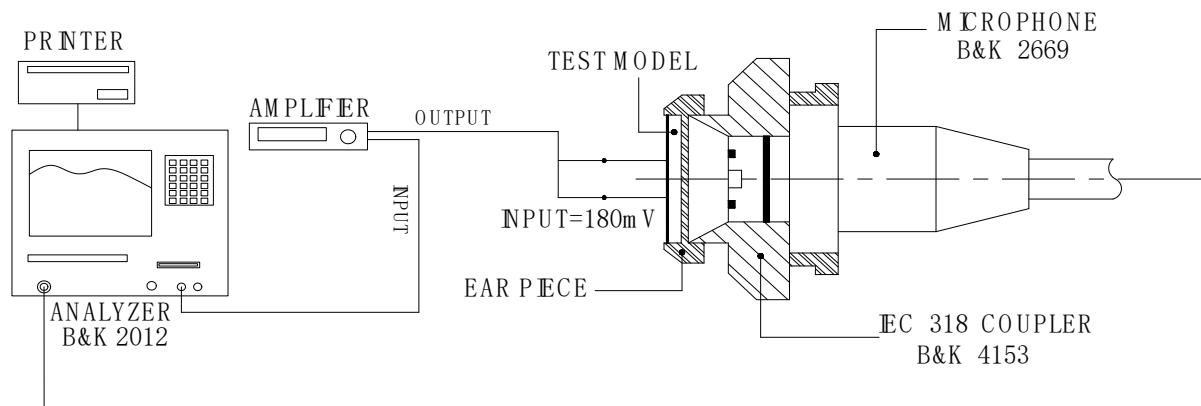
Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

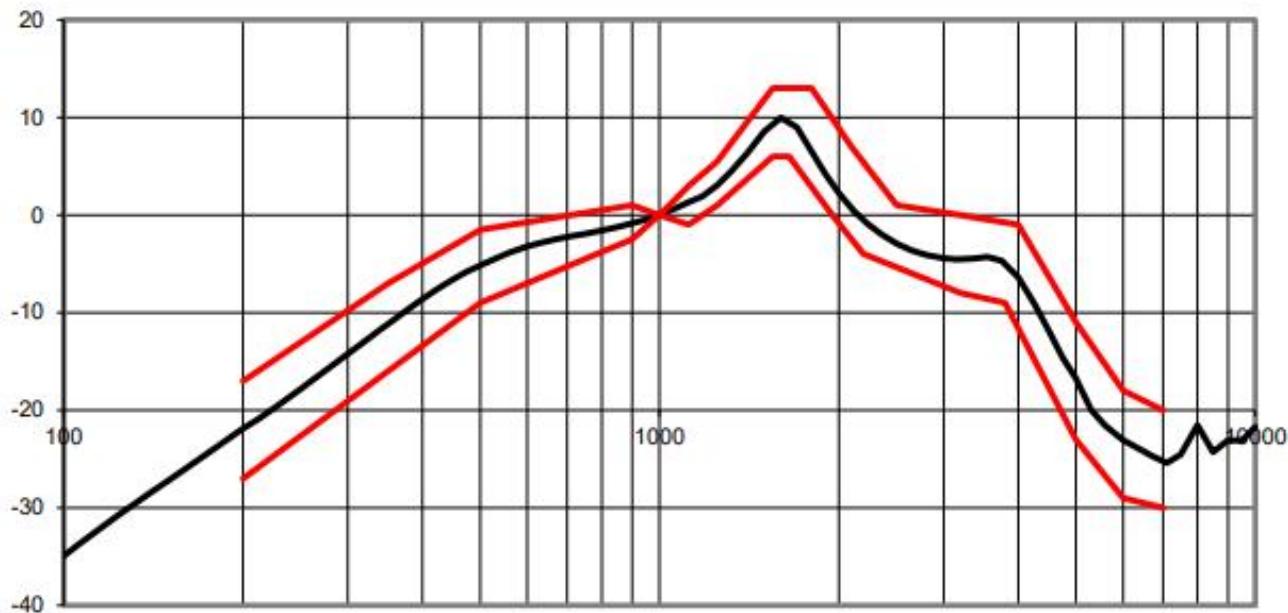
Atmospheric pressure : 860mbar to 1060mbar

## 2-2. Standard Test Fixture

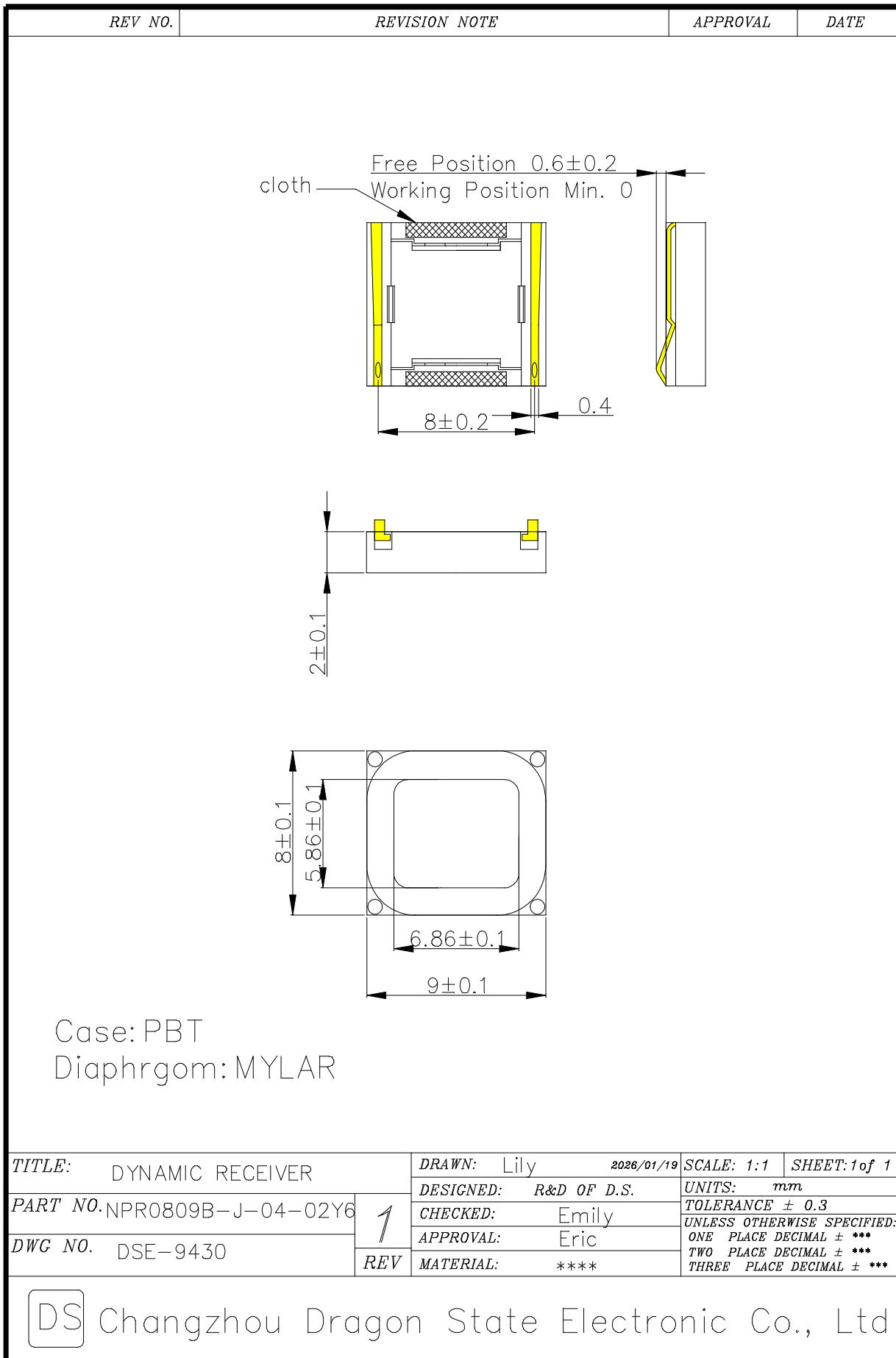
Input signal : 1.26V



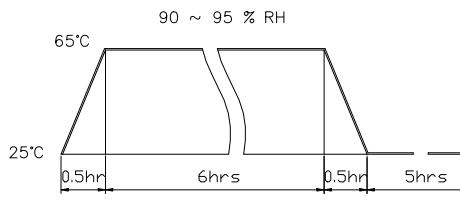
## 2-3 Frequency Response Curve



### 3. Dimension



## 4. Reliability Test

| ITEMS. |                                   | SPECIFICATIONS  |
|--------|-----------------------------------|---|
| 01     | <b>High temp. Test</b>            | Keep 96 hours at $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check   |
| 02     | <b>Low temp. Test</b>             | Keep 96 hours at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 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 $95 \pm 3\%$ and leave 3 hours in normal temperature and then checked.                                 |
| 04     | <b>Temp./humidity cycle</b>       | The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;<br>               |
| 05     | <b>Thermal Cycle Test.</b>        | 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     | <b>Vibration</b>                  | 10~200~10Hz Sin-Wave Sweep 15min. 5G(Constant)<br>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<br>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<br>X,y, z 6 direction. 1 times each, total 6 times.   |
| 09     | <b>Load test</b>                  | Rated power white noise is applied for 96 hours   |
| 10     | <b>Protection against liquids</b> | Protected against 1 hour of immersion under 2m pressure   |
| 11     | <b>Max Power test</b>             | Max Power 1 min on – 2 min off 10 cycles.   |