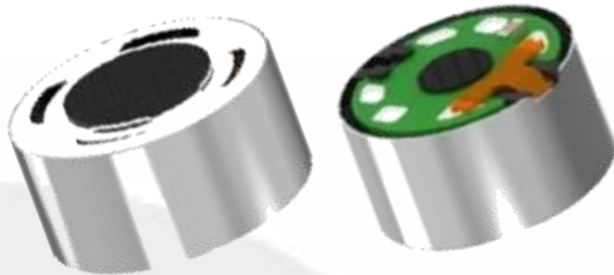


# SPECIFICATION



TYPE : **Earphone Unit**

Model No. : **SR080655EP01N3L**

Rev. : **00**

**BSE co., Ltd.**

58B-4L, 626-3, Gozan-dong  
Namdong-ku, Incheon-city, Korea

TEL : 82 32 500 1871

FAX : 82 32 500 1879

## REVISION HISTORY

REV.	DATE	SHEET No.	Contents	NOTE	BY
0	18.09.21	-	-	1 <sup>st</sup> release	D.S.MOON
1					
2					
3					
4					
5					
6					

## CONTENTS

1. SCOPE
2. ENVIRONMENTAL REQUIREMENTS
3. GENERAL REQUIREMENTS
4. ELECTRO-ACOUSTIC CHARACTERISTICS
5. FREQUENCY RESPONSE
6. TEST METHOD
7. MECHANICAL LAYOUT AND DIMENSION

## 1. SCOPE

This documents shall be applied to the earphone Unit.

## 2. ENVIRONMENTAL REQUIREMENTS

The specification measures up to RoHS version and including all components must be free from lead and other banned or restricted substances.

## 3. GENERAL REQUIREMENTS

### 3.1 Operating condition

Temperature : -20 ~ 70 °C without loss of function

### 3.2 Storage condition

Temperature : -40 ~ 85 °C without loss of function

Caution : Do not keep with pile up

### 3.3 Points to handling notice

- Do not be around magnet
- Do not heating
- Do not throw against
- Do not dipping in the water

### 3.4 Appearance and Cleaning

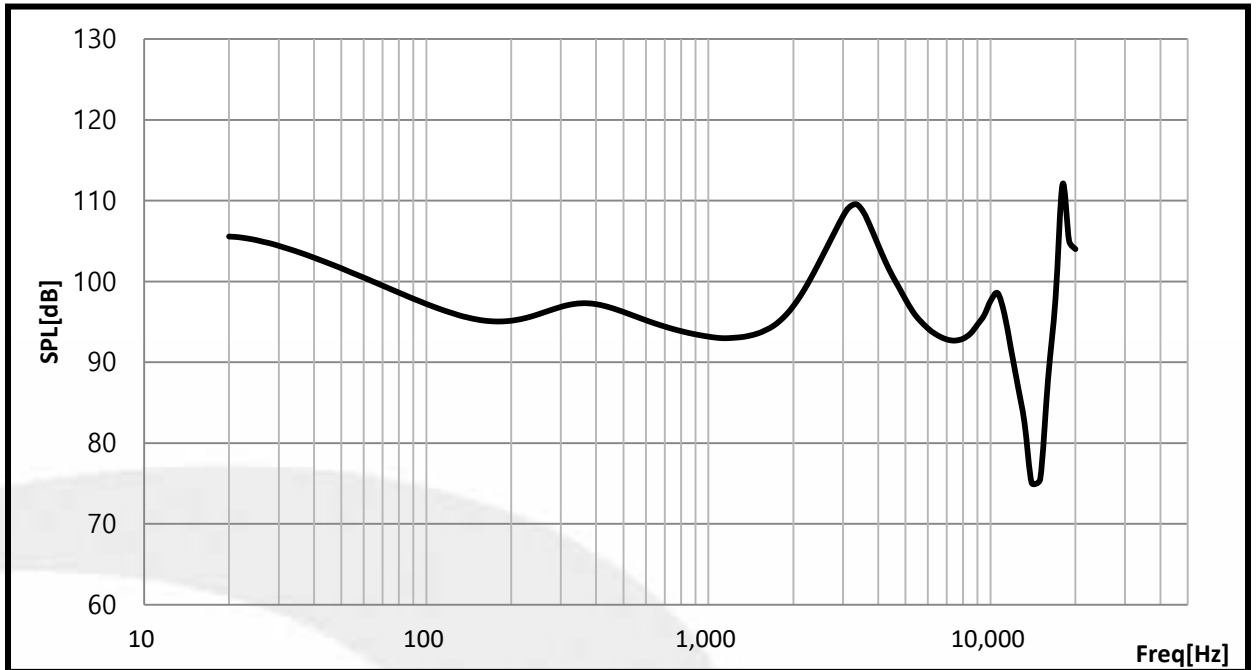
Should not exist any obstacle to be harmful to normal operation can not any remarkable damage, crack and rust which may cause malfunction.  
Cleaning under specific condition proposed by manufacturer.

## 4. ELECTRO-ACOUSTIC CHARACTERISTICS

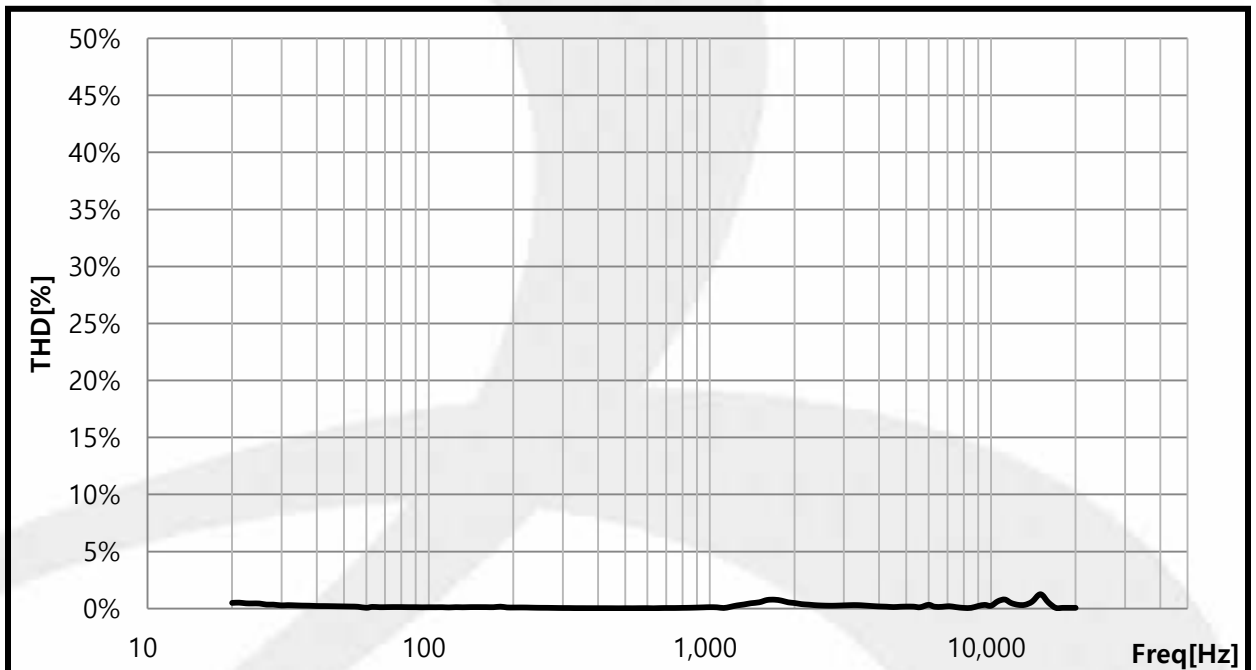
<b>4.1 Rated Impedance (Z)</b>	<b>16.0</b> $\Omega \pm 15\%$ @ 2 kHz, 0.127 Vrms
<b>4.2 Voice coil resistance (R)</b>	15 $\Omega \pm 10\%$
<b>4.3 Rated Input Power</b>	<b>3.0</b> mW (0.22 Vrms)
<b>4.4 Maximum Input Power</b>	<b>25</b> mW (0.63 Vrms) (Refer to IEC268-5)
<b>4.5 Characteristic Sensitivity</b>  (IEC 60318-1 2cc coupler)	<b>93.2</b> $\pm 3$ dB @ 1kHz / 1mW (0.127 Vrms)
<b>4.6 Rated Frequency Range</b>	<b>20</b> ~ <b>20</b> kHz
<b>4.7 Total Harmonic Distortion</b>  (IEC 60318-1 2cc coupler)	<b>&lt; 10 %</b> @ 50Hz ~ 10 KHz / 1mW (0.127 Vrms)
<b>4.8 Rub &amp; Buzz</b>  (Rated input power / sinusoidal wave / sweep) There shall be no buzzes, rattles nor any spurious acoustic noises	

## 5. FREQUENCY RESPONSE

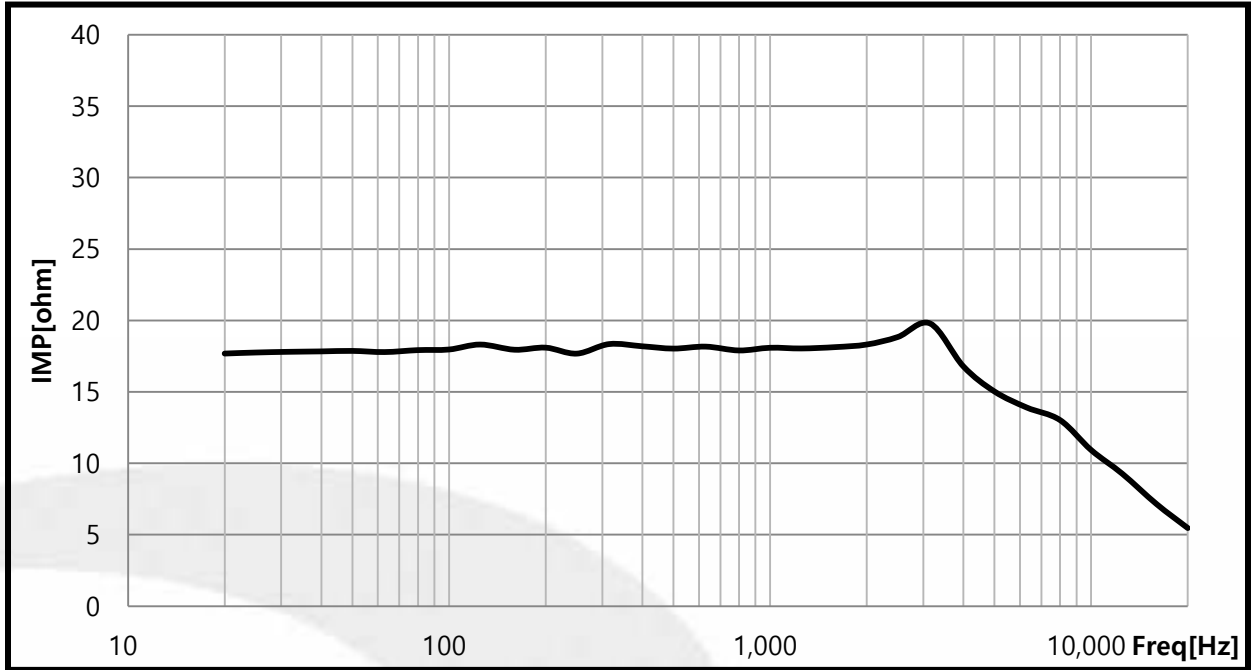
### 5.1 Frequency Response Curve



### 5.2 Distortion Response Curve



### 5.3 Impedance Response Curve



### SPECIFICATION for MICRO SPEAKER

SR080655EP01N3L

Rev. 00

SHEET No.

6 / 8

## 6. TEST METHOD

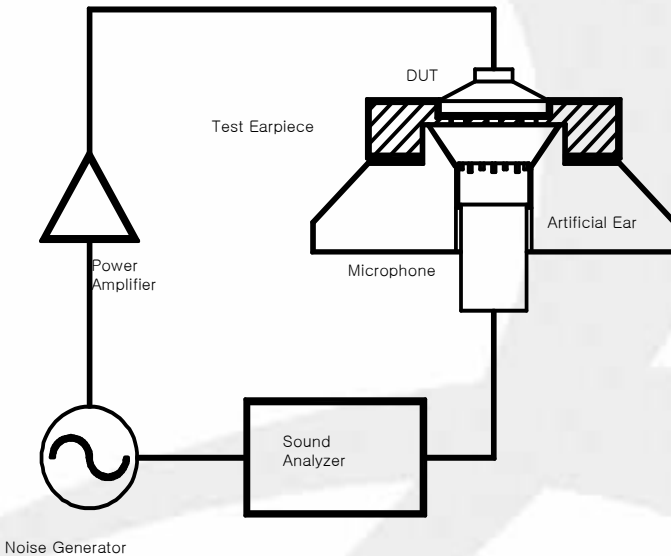
### 6.1 Equipment

- |                                     |                            |                  |
|-------------------------------------|----------------------------|------------------|
| <input checked="" type="checkbox"/> | Artificial ear             | : B&K Type 4153  |
| <input checked="" type="checkbox"/> | Sound Analyzer             | : B&K Pulse      |
| <input checked="" type="checkbox"/> | Power Amplifier            | : B&K Type 2716C |
| <input checked="" type="checkbox"/> | Pre Amplifier              | : B&K Type 2669  |
| <input checked="" type="checkbox"/> | Microphone (Pressure type) | : B&K Type 4192  |

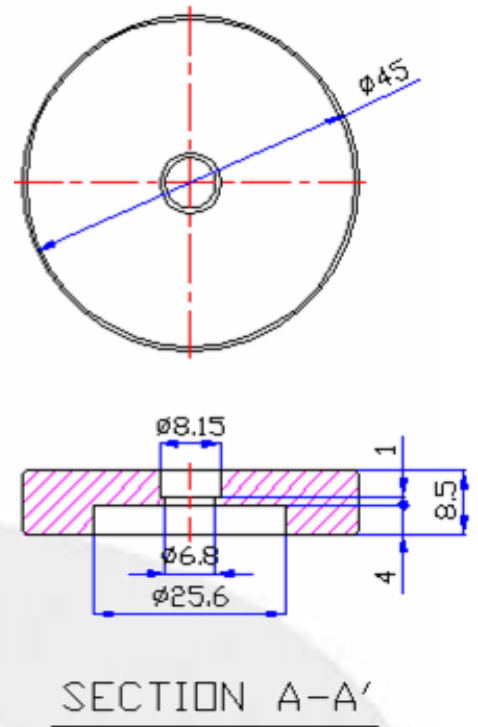
### 6.2 Sensitivity and Frequency Response curve

- The Receiver shall be mounted in a specific earpiece shown test earpiece dimension, and an earpiece shall be placed on an artificial ear.

### 6.3 Test setup

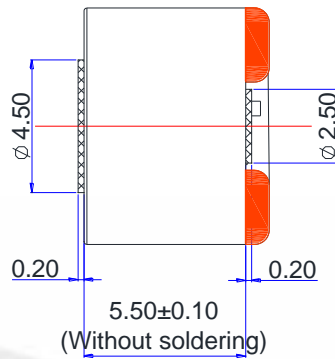
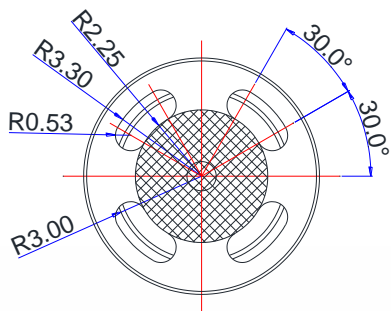


※ Artificial Ear simulator

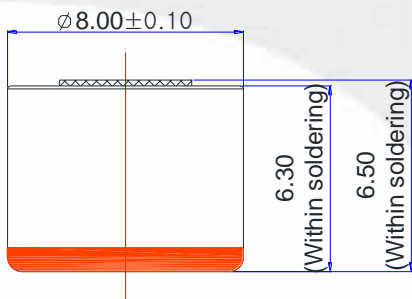
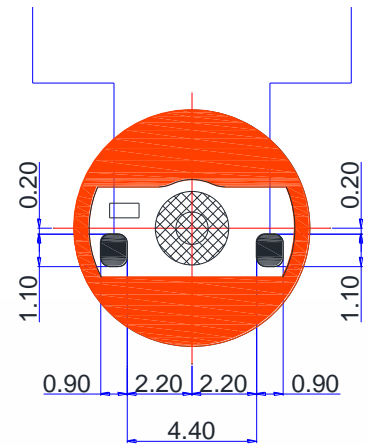


Earpiece JIG

## 7. MECHANICAL LAYOUT AND DIMENSION



(+)Positive (-)Negative



■ Tolerance unless notes :  $\pm 0.15\text{mm}$