

# 規格承認書

PECIFICATION FOR APPROVAL

客戶

CUSTOMER : 通用型規格書

項目

ITEM : 駐極體電容咪頭 (ECM) 單指向

型號

TYPE : GMBU16065CSC-01-39~-47DB

描述

DESCRIPTION :  $\phi 16.0 \times 6.5$  MM 焊點 1033 範圍 -39~-47+/-2 dB  $\leq 2.2K\Omega$  S/N:  $\geq 58$  dBA

客戶料號

CUSTOMER NO. :

規格書號

SPECIFICATION NO.: 會議、頭戴、直播產品專用

版本

EDITION NO. : V1.0

日期

DATE : 2023-2-15

## 客戶承認

### 第一章CUSTOMER CONFIRM AND SIGN

| 檢查<br>TESTED BY | 審核<br>CHECKED BY | 承認<br>APPROVED BY |
|-----------------|------------------|-------------------|
|                 |                  |                   |

東莞市贏海電子有限公司

### 第二章DONGUAN INGHAIELECTRONICS CO.,LTD

| 製作<br>ISSUED BY | 審查<br>CHECKED BY | 確認<br>APPROVED BY |
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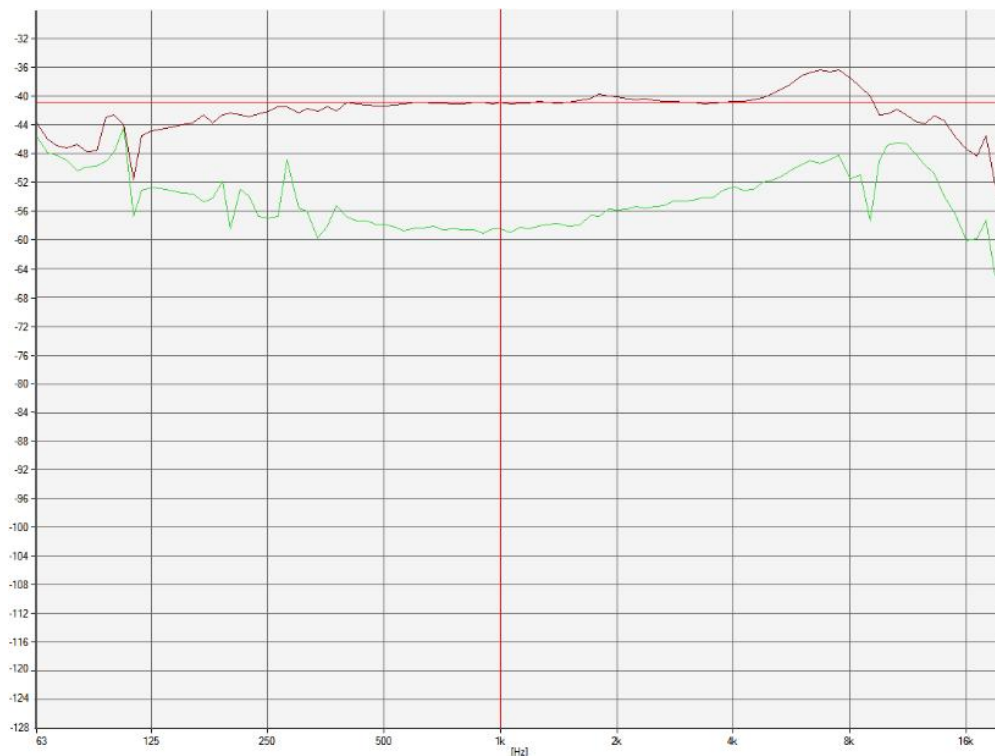
## 1. Electrical characteristics:

|                                  |  |
|----------------------------------|--|
| Directivity                      | Unidirectional                                 |
| Pb containation Requirement      | Lead free                                      |
| Charging type                    | Back plate                                     |
| Sensitivity                      | $-39 \sim 47 \pm 2\text{dB}$ (0dB=1V/Pa, 1KHz) |
| Impedance                        | 680 $\Omega$                                   |
| Standard operating voltage       | 1.5V   |
| Operating voltage range          | 1V-10V   |
| Current consumption              | less than 500 $\mu\text{A}$                    |
| Voltage deduction characteristic | Within 3dB at 1.5V                             |
| S/N Ratio                        | More than 58dB (SPL=1Pa, 1KHz, A-weighting)    |

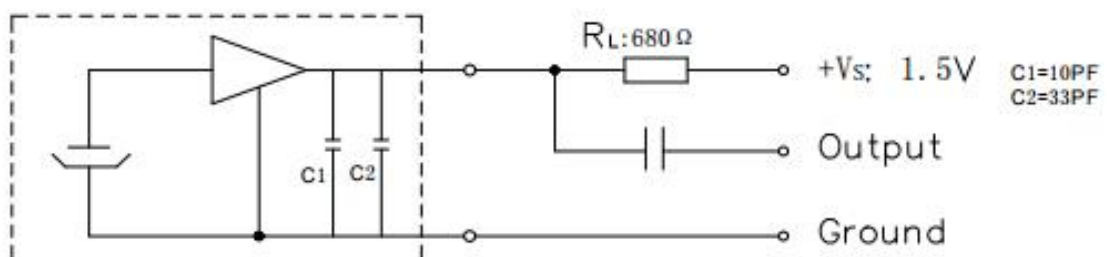
## 2. Frequency Response and Schematic Diagram:

### 2.1 Typical Frequency Response Curve:

Frequency Response



### 2.2 Schematic Diagram:

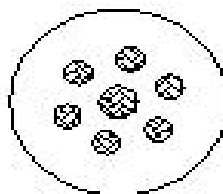
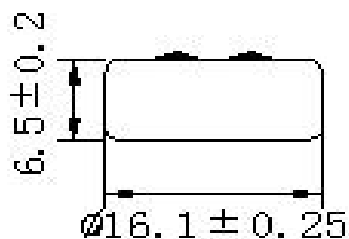
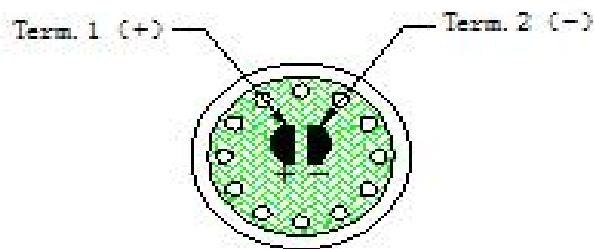


### 3. Mechanical characteristics:

3.1 Weight: Less than 1.0g

3.2 Dimension:

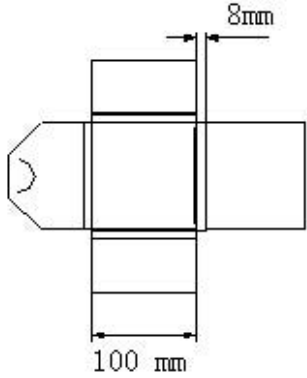
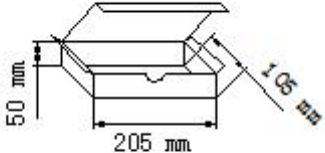
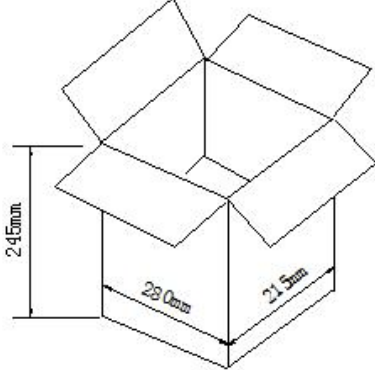
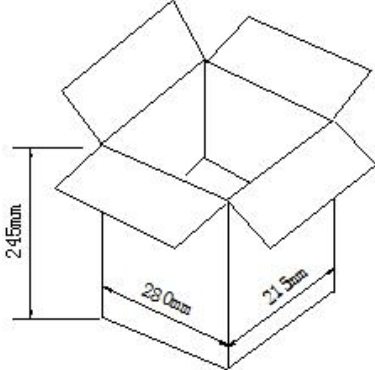
Unit:mm



### 4. Soldering Condition

- 4.1 The soldering copper of a small type of 13~20W shall be applied.
- 4.2 The temperature of the working surface of the soldering copper shall be below 320°C.
- 4.3 ECM shall be soldered fixed on the metal block (heat sink), which has the higher radiation effects said heat sink shall contact with of ECM.
- 4.4 The soldering time for each terminal shall be 1~2 sec.
- 4.5 The pinhole after soldering shall be avoided.
- 4.6 ECM may easily destroyed by the static electricity and the countermeasure for eliminating the static electricity (the ground for soldering copper, for worktable and for human body) shall be executed

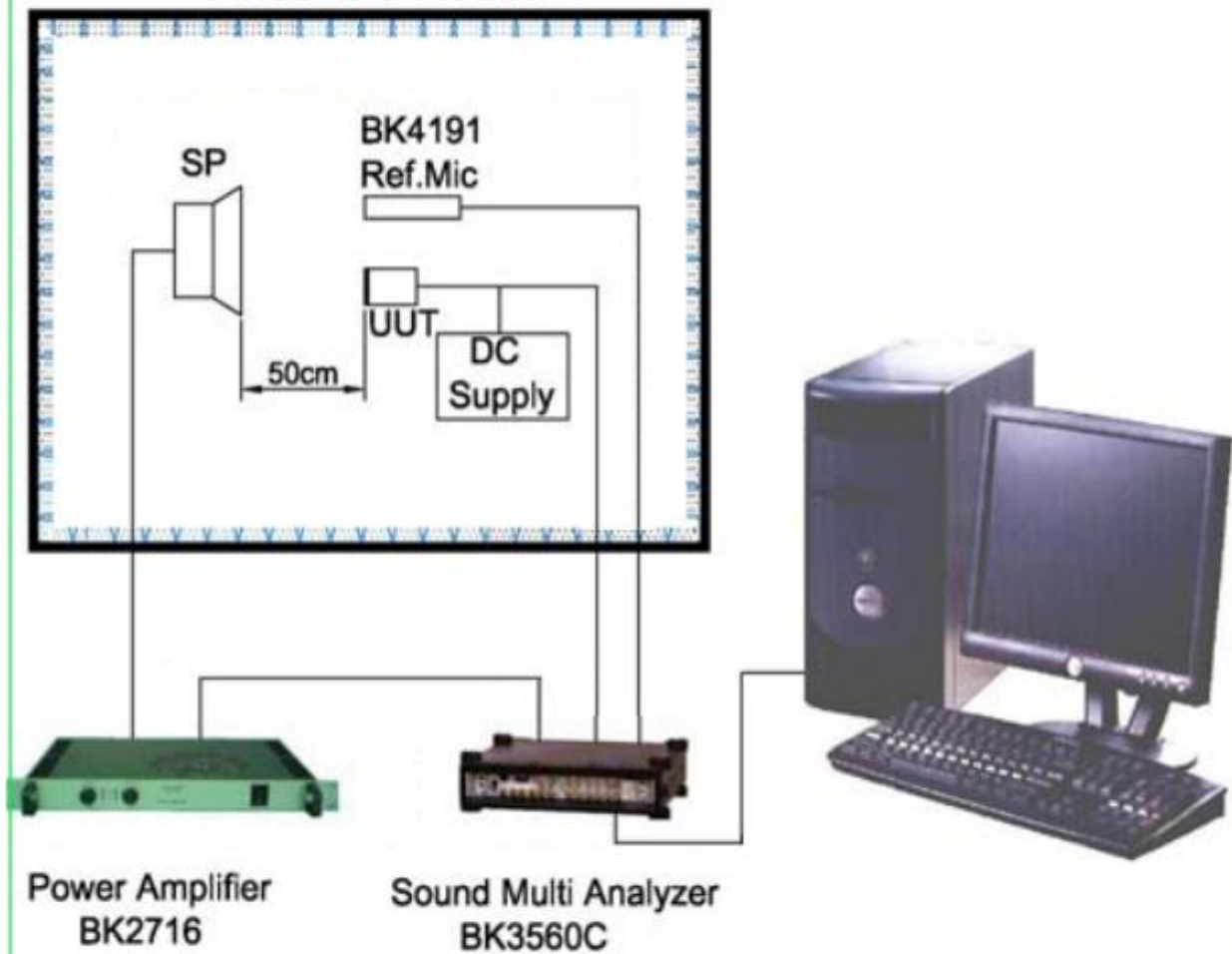
5. PACKAGING:

|            |  |   |
|------------|--|---|
| <p>小包装</p> | <p>SMALL PACKET<br/>100mm*100mm*8mm<br/>36PCS</p>    |    |
| <p>中包装</p> | <p>MID PACKET:<br/>205mm*105mm*50mm<br/>360PCS</p>   |  <p>中包装盒 (360只)</p>   |
| <p>大包装</p> | <p>PAPER CASE:<br/>280mm*215mm*245mm<br/>3600PCS</p> |  <p>大包装箱 (3600只)</p>  <p>大包装箱 (3600只)</p> |

## 6. TEST SETUP DRAWING

### Standard Frequency Response Test

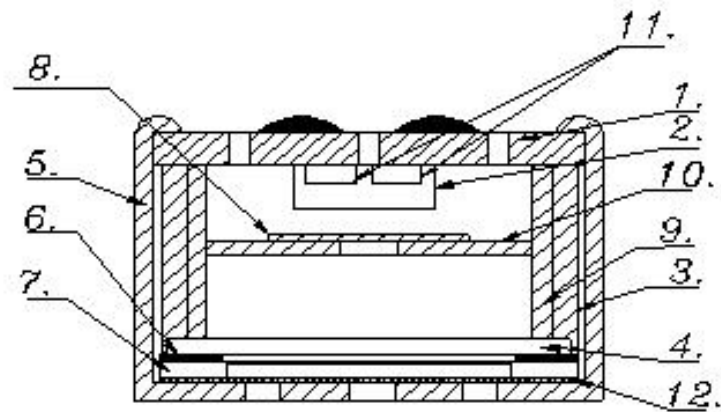
#### Anechoic Room



## 7. Reliability test:

|   | Item                      | Test condition  | Evaluation   |
|---|---------------------------|---|--|
| 1 | High temperature Test     | The part shall be capable of with- standing a storage temperature of +70 °C for 200 hours.  | After the test the ECM unit shall meet the requirement of no more than $\pm 3$ dB variation from initial sensitivity after 2 hours recovering. |
| 2 | Low temperature Test      | The part shall be capable of with- standing a storage temperature of -20 °C for 200 hours.  |  |
| 3 | Temperature cycle test    | The part shall be subjected to 5 cycle. One cycle shall consist of ( +70 °C ,30min → Room temp(+20°C), 10min→-20°C30min →Room temp(+20°C), 10min) |  |
| 4 | Humidity Test             | The part shall be capable of with- standing a storage of humidity of 90 ~ 95% at the +40°C for 200 hours.   |  |
| 5 | Drop Test                 | The microphone unit without package must be subjected to each 3 drops at three axes from the height of 1 meter to 20 mm thick hardwood board.     |  |
| 6 | Vibration Test            | The microphone unit must be subjected to each 2 hours vibrations at three axes 2mm dynamic range, 10~50Hz/minute.                                 |  |
| 7 | Soldering Heat Resistance | Soldering iron of $+330 \pm 5$ °C should be placed on the terminal for $2 \pm 0.5$ seconds.   |  |

## 8.Drawing



|   |     |    |      |
|---|-----|----|------|
| 1 | PCB | 7  | 背极膜  |
| 2 | FET | 8  | 阻尼纸  |
| 3 | 塑环  | 9  | 连接环  |
| 4 | 背极板 | 10 | 单孔极板 |
| 5 | 外壳  | 11 | 电容   |
| 6 | 垫片  | 12 | 防护钢网 |

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