

# 規格承認書

PECIFICATION FOR APPROVAL

客戶

CUSTOMER : 通用型规格书

項目

ITEM : 驻极体电容咪头 (ECM) 单指向

型號

TYPE : GMBU16065CSC-02-39~47DB

描述

DESCRIPTION :  $\phi$  16.0x 6.5 MM 焊点 1033 范围-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.: 会议、头戴、直播产品专用

版本

EDITION NO. : V1.0

日期

DATE : 2023-2-15

## 客戶承認

### CUSTOMER CONFIRM AND SIGN

檢查 TESTED BY	審核 CHECKED BY	承認 APPROVED BY

東莞市贏海電子有限公司

### DONGUAN INGHAI ELECTRONICS CO.,LTD

製作 ISSUED BY	審查 CHECKED BY	確認 APPROVED BY
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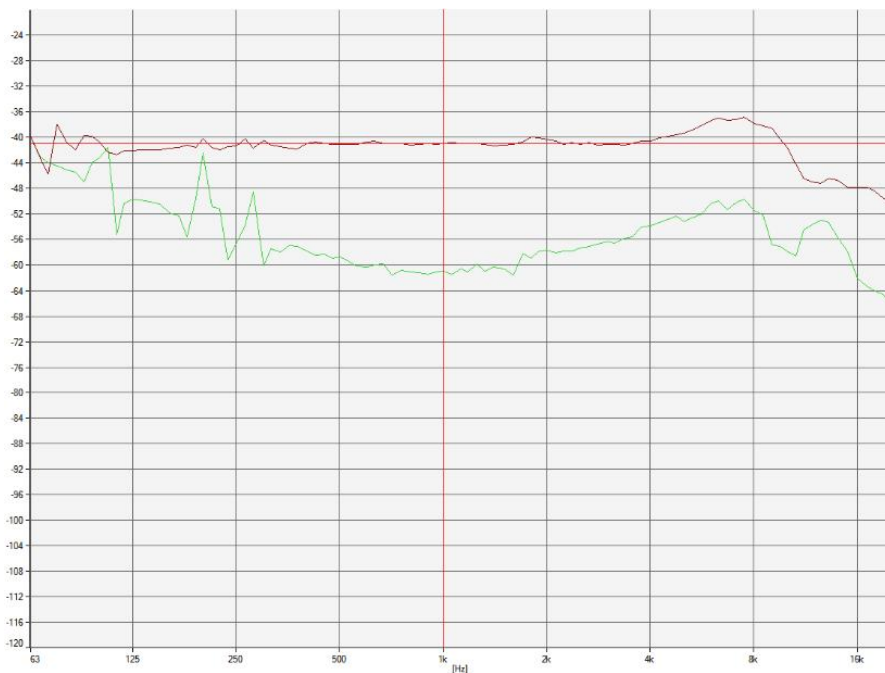
## 1. Electrical characteristics:

Directivity	Unidirectional
Pb contination Requirement	Lead free
Charging type	Back plate
Sensitivity	-39~-47±2dB (0dB=1V/Pa, 1KHz)
Impedance	680 Ω
Standard operating voltage	1.5V
Operating voltage range	1V-10V
Current consumption	less than 500 μA
Voltage deduction characteristic	Within 3dB at 1.5V
S/N Ratio	More than 58dB (SPL=1Pa, 1KHz, A-weighting)

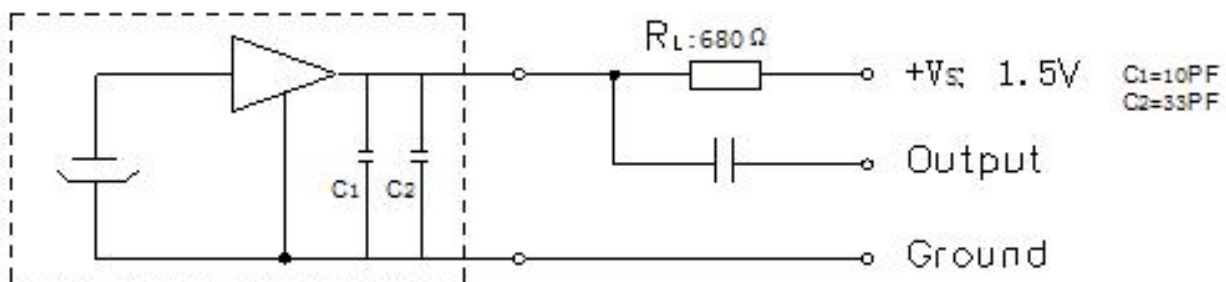
## 2. Frequency Response and Schematic Diagram:

### 2.1 Typical Frequency Response Curve:

Frequency Response



### 2.2 Schematic Diagram:

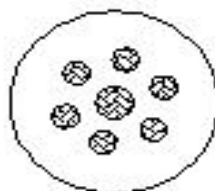
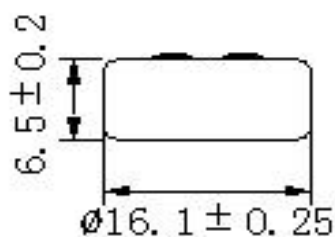
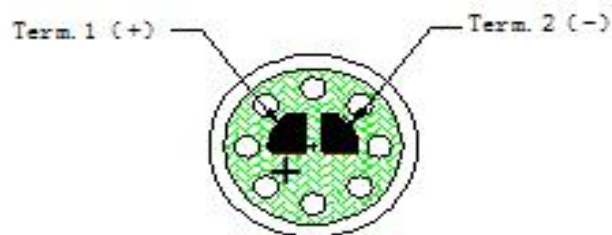


### 3. Mechanical characteristics:

3.1 Weight: Less than 1.0g

3.2 Dimension:

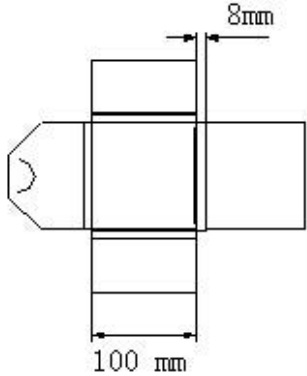
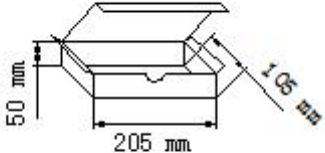
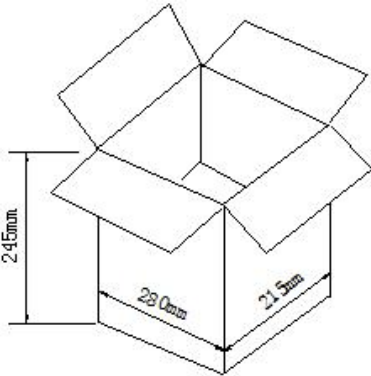
Unit:mm



### 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

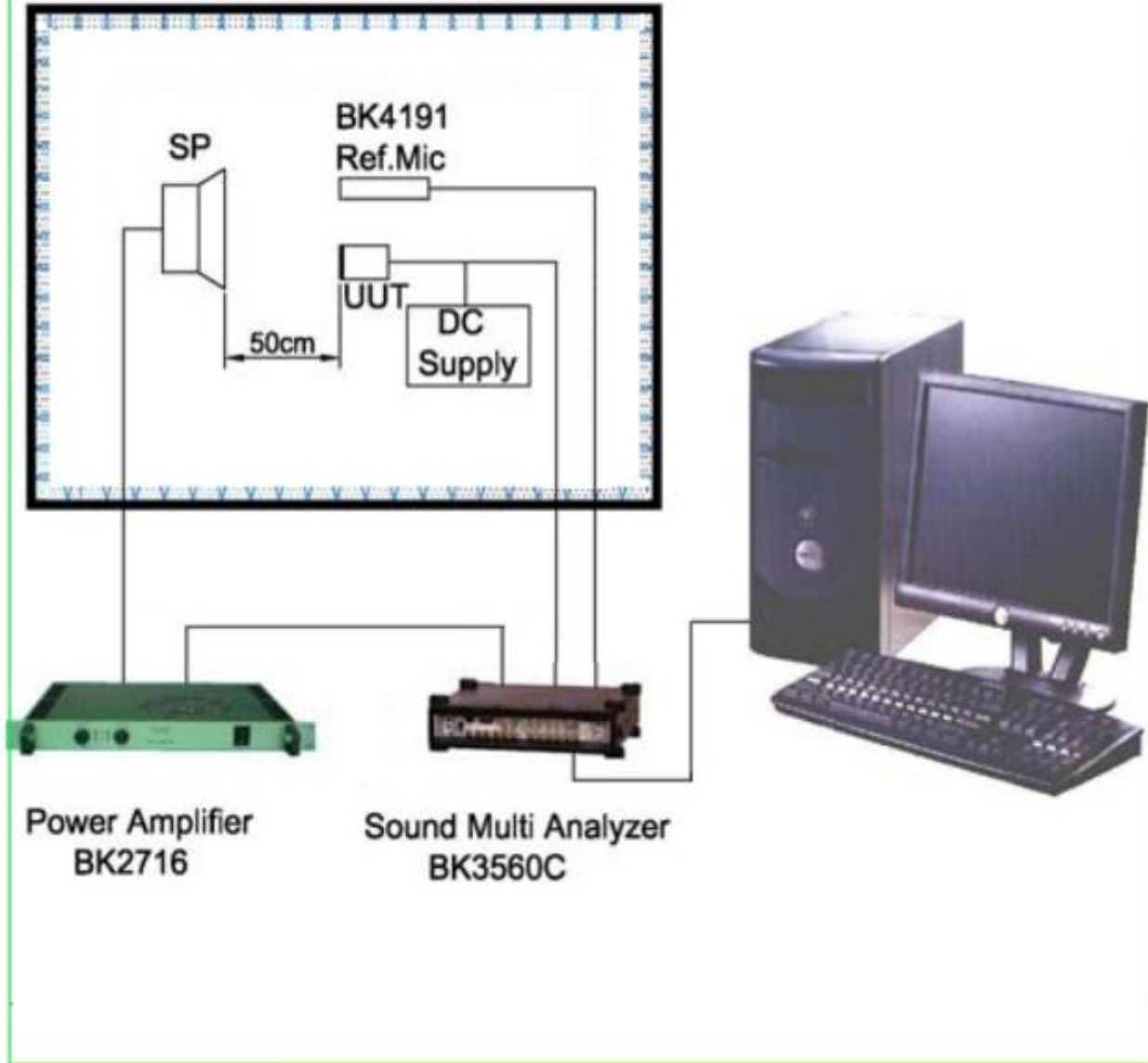
## 5. PACKAGING:

<p>小包装</p>	<p>SMALL PACKET 100mm*100mm*8mm 36PCS</p>	 <p>The diagram shows a net for a small packet. It consists of a central rectangular panel with a width of 100 mm. On the right side, there is a vertical strip that is 8 mm wide. On the left side, there is a flap that folds over the top and bottom edges of the central panel. The overall height of the packet is not explicitly labeled but is implied to be 100 mm.</p>
<p>中包装</p>	<p>MID PACKET: 205mm*105mm*50mm 360PCS</p>	 <p>The diagram shows a perspective view of a mid packet. The front edge is 205 mm wide. The depth of the packet is 105 mm. The height of the packet is 50 mm. The top of the packet is slightly recessed.</p> <p>中包装盒 (360只)</p>
<p>大包装</p>	<p>PAPER CASE: 280mm*215mm*245mm 3600PCS</p>	 <p>The diagram shows a perspective view of a paper case. The front edge is 280 mm wide. The depth of the case is 215 mm. The height of the case is 245 mm. The top flaps are shown in an open position.</p> <p>大包装箱 (3600只)</p>

## 6. TEST SETUP DRAWING

### Standard Frequency Response Test

#### Anechoic Room

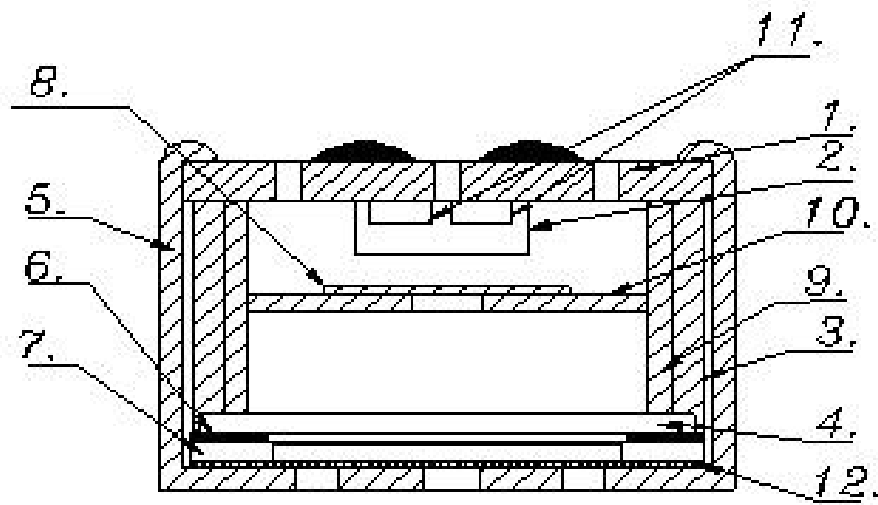


## 7. Reliability test:

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.
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°C 30min →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 ± 5 °C should be placed on the terminal for 2±0.5 seconds.

After the test the ECM unit shall meet the requirement of no more than ±3dB variation from initial sensitivity after 2 hours recovering.

## 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