

# 規格承認書

SPECIFICATION FOR APPROVAL

客戶  
CUSTOMER : 立創  
項目  
ITEM : 咪頭  
型號  
TYPE : BL-MP9745-40dB  
客戶料號  
CUSTOMER NO. :  
規格書號  
SPECIFICATION NO. :  
版本  
EDITION NO. : 1.1  
客戶料號  
CUSTOMER NO. :  
日期  
DATE : 2018-07-20

## 客戶認可

CUSTOMER'S APPROVED SIGNATURE

|  |  |  |
|--|--|--|
|  |  |  |
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| 確認<br>APPROVED BY | 審查<br>CHECKED BY | 製作<br>ISSUED BY |
|-------------------|------------------|-----------------|
|                   | 石磊               | zhang           |

## A. SCOPE

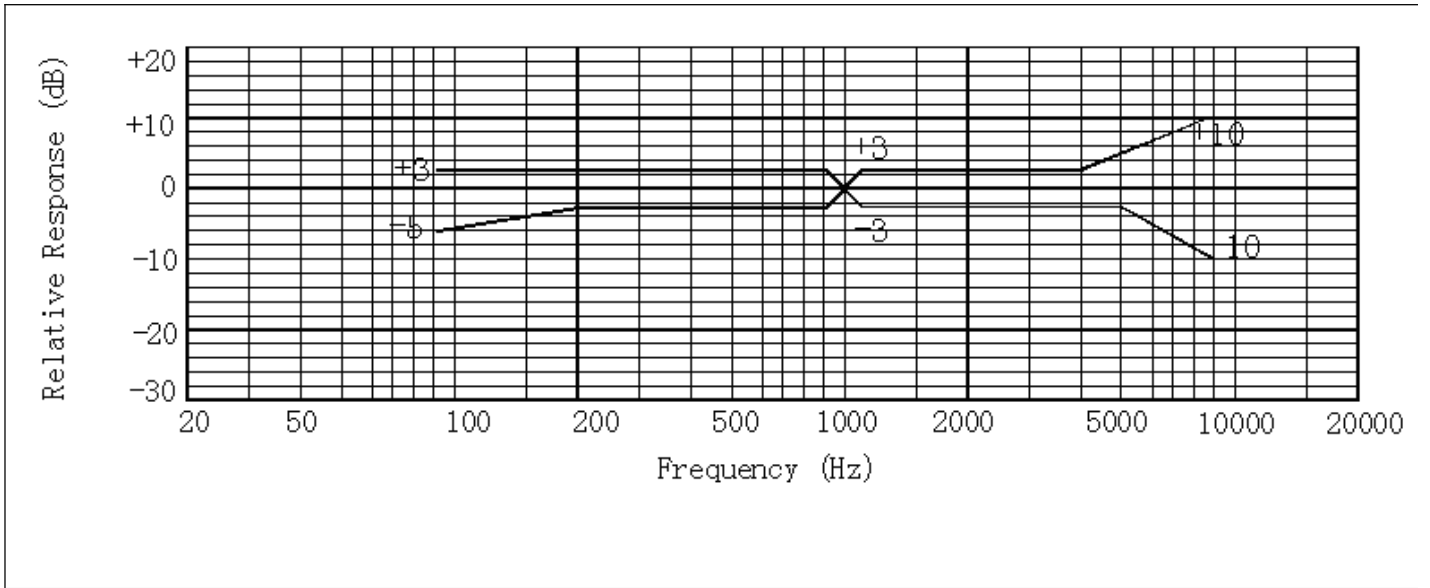
This specification applies electret condenser microphone,BL-MP9745-40dB

## B. SPECIFICATION

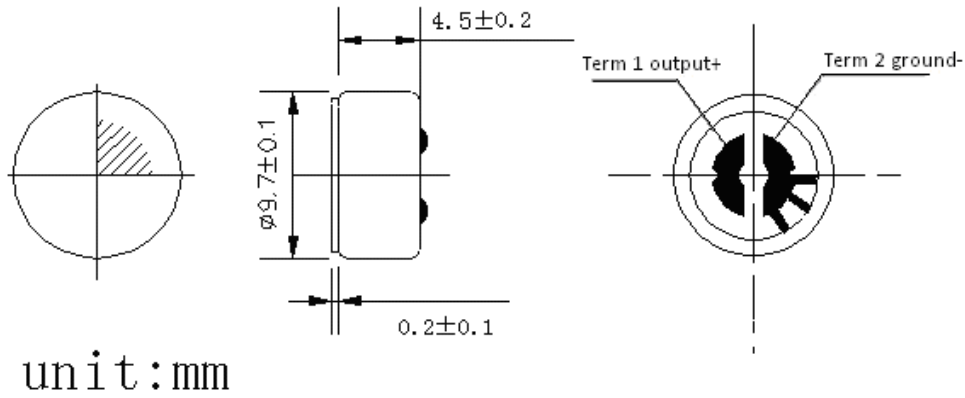
■ Test condition:  $RL=2.2K\Omega$   $VS=4.5V$   $TEMP=25^{\circ}C\pm 2^{\circ}C$  Related humidity= $65\pm 5\%$

| No. | Item                       | Symbol               | Unit       | Specification     | Condition                          |
|-----|----------------------------|----------------------|------------|-------------------|------------------------------------|
| 1   | Directivity                |                      |            | Omnidirectional   |                                    |
| 2   | Sensitivity                | <b>S</b>             | dB         | -40±3             | f=1KHz,0dB=1V/Pa                   |
| 3   | Standard operating voltage | <b>Vs</b>            | V          | 4.5               |                                    |
| 4   | Output impedance           | <b>Zout</b>          | K $\Omega$ | ≤2.2              | f=1KHz, 1Pa                        |
| 5   | Max operating voltage      |                      | V .        | 10                |                                    |
| 6   | Sensitivity reduction      | $\Delta$ <b>S-Vs</b> | dB         | -3                | f=1KHz, 1Pa<br>vs=4.5VDC to 3.0VDC |
| 7   | Max. current consumption   | <b>Idss</b>          | mA         | ≤0.5              |                                    |
| 8   | Signal to noise ration     | <b>S/N</b>           | dBA        | ≥58               |                                    |
| 9   | Operation temp.            |                      | °C         | -10 ~+60          |                                    |
| 10  | Storage temp.              |                      | °C         | -20 ~+60          |                                    |
| 11  | Dimension                  |                      | mm         | $\varphi$ 9.7x4.5 | See appearance drawing             |
| 12  | Terminal                   |                      |            | Terminal          | See appearance drawing             |

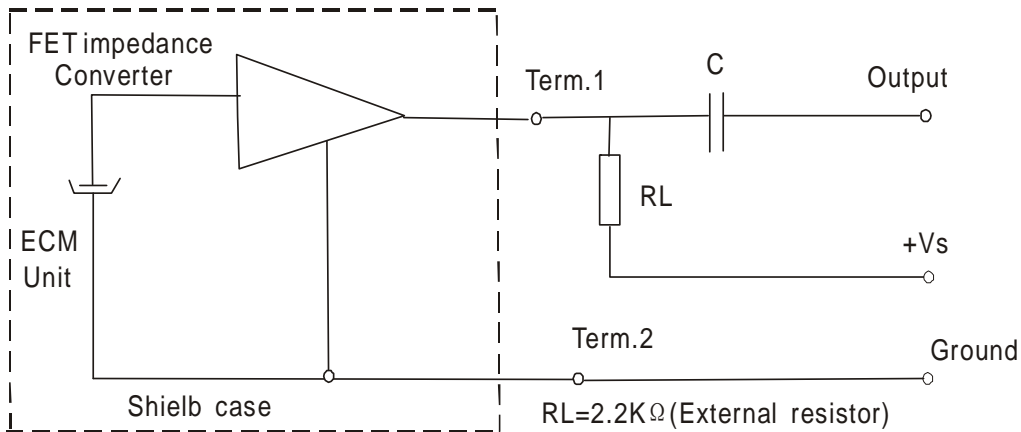
### C. TYPICAL FREQUENCY RESPONSE CURVE



### D. APPEARANCE DRAWING



### E. MEASUREMENT CIRCUIT



|                                                                                                                                                                                                                                                |                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 传声器信赖性试验 Reliability Test                                                                                                                                                                                                                      |                                                                                                                                 |
| 经过以下所有试验在 20℃ 的条件下放置 3 小时后,麦克风的灵敏度与试验前比较变化在 ±3DB 以内<br>After any following tests, the sensitivity of the microphone to be within ±3DB of initial sensitivity after 3hours of conditioning at 20℃                                               |                                                                                                                                 |
| 5-1 振动试验<br>Vibration                                                                                                                                                                                                                          | 周波数 1/Frequency1:10Hz~55Hz<br>振幅/Amplitude:1.52mm<br>变化/Change of Frequency:1 octave/min<br>3 方向,各 1 小时/hours in each of 3 axes |
| 5-2 高温试验<br>Dry Heat                                                                                                                                                                                                                           | +70℃ for 72 hours                                                                                                               |
| 5-3 低温试验<br>Dry Cold                                                                                                                                                                                                                           | -20℃ for 72 hours                                                                                                               |
| 5-4 高温高湿试验<br>Damp Heat                                                                                                                                                                                                                        | 90%~95%RH, +40℃ for 72 hours                                                                                                    |
| 5-5 温度循环试验<br>Temperature cycles                                                                                                                                                                                                               | -20℃    25℃    70℃    - 20℃<br>(0.5h)   (10 minutes) (0.5h)   (10 minutes ) x 5 cycles                                          |
| 5-6 跌落试验<br>Packing drop test                                                                                                                                                                                                                  | Height:1m<br>顺序:三个面各跌 1 次<br>Procedure:1 times from each of 3 axes                                                              |
| 焊接条件<br>Soldering Condition.                                                                                                                                                                                                                   |                                                                                                                                 |
| 7-2 电烙铁表面温度低于 300℃ ± 10℃<br>The temperature of the working surface of the soldering copper shall be below 300℃ ± 10℃                                                                                                                           |                                                                                                                                 |
| 7-3 焊接时把麦克风嵌入散热能力强的金属块内。<br>ECM shall be soldered fixed on the metal block(heat sink)which has the higher radiation effects said heat sink<br>Shall contact with of ECM .                                                                      |                                                                                                                                 |
| 7-4 焊接时间控制在 3 秒内。<br>time for each terminal shall be3sec.                                                                                                                                                                                      |                                                                                                                                 |
| 7-5 焊接后不能出现针孔。<br>The pinhole after soldering shall be avoided.                                                                                                                                                                                |                                                                                                                                 |
| 7-6 静电容易破坏麦克风必须采取措施避免 (电烙铁接地, 戴静电环等。)<br>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. |                                                                                                                                 |