

# 規格承認書

SPECIFICATION FOR APPROVAL

客戶  
CUSTOMER : 立創  
項目  
ITEM : 咪頭  
型號  
TYPE : BL-MP9745P-38DB  
客戶料號  
CUSTOMER NO. :  
規格書號  
SPECIFICATION NO. :  
版本  
EDITION NO. : 1.1  
日期-  
DATE : 2018-7-20

## 客戶認可

CUSTOMER'S APPROVED SIGNATURE

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### 東莞市博林電子有限公司

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確認 APPROVED BY	審查 CHECKED BY	製作 ISSUED BY
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## A. SCOPE

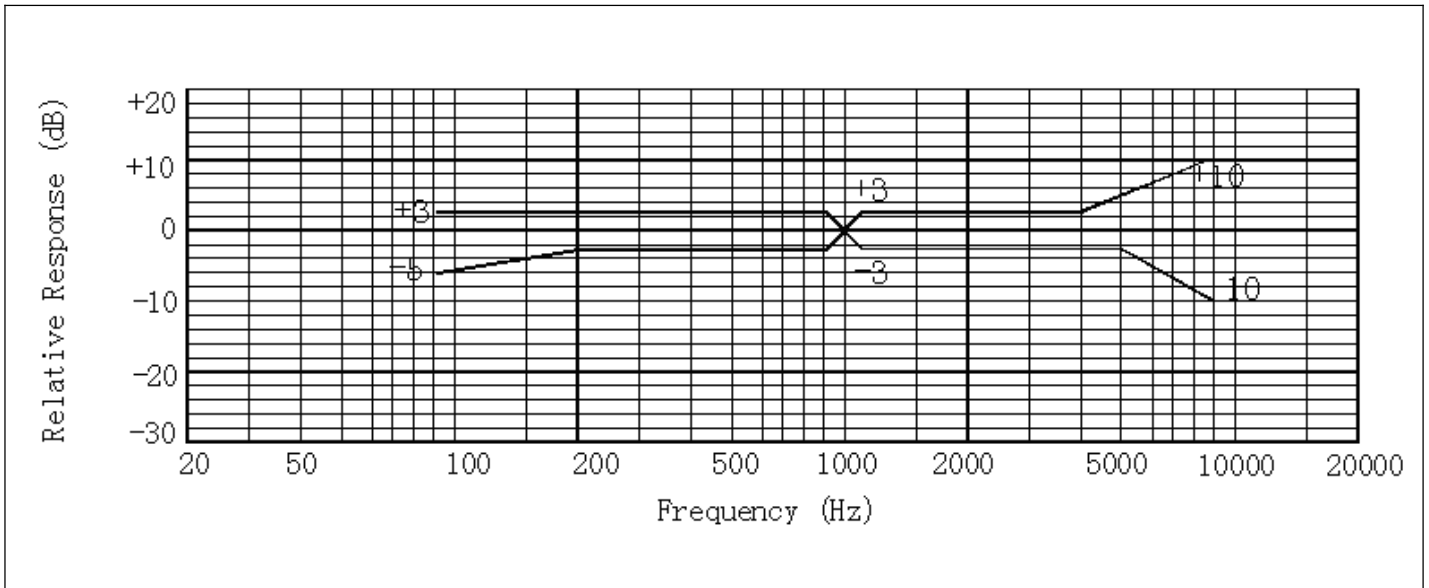
This specification applies electret condenser microphone,BL-MP9745P-38dB

## B. SPECIFICATION

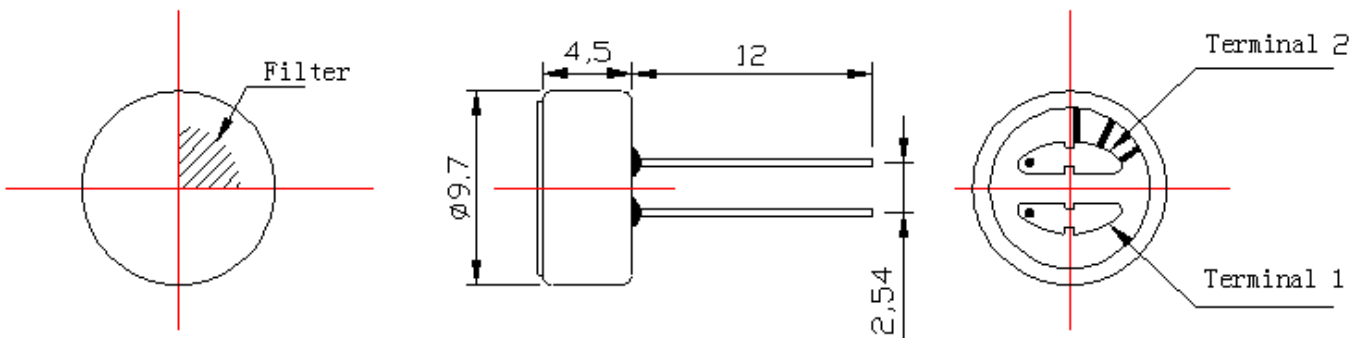
■Test condition:  $R_L=2.2K\Omega$   $V_S=4.5V$   $TEMP=25^{\circ}C\pm 2^{\circ}C$  Related humidity= $65\pm 5\%$

No.	Item	Symbol	Unit	Specification	Condition
1	Directivity			Omnidirectional	
2	Sensitivity	<b>S</b>	dB	-38±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	$\Delta S-Vs$	dB	-3	f=1KHz, 1Pa 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>	dB	≥58	f=1KHz, P in=1Pa
9	Operation temp.		°C	-10 ~+60	
10	Storage temp.		°C	-20 ~+70	
11	Dimension		mm	φ 9.7x4.5	See appearance drawing
12	Terminal			Terminal	See appearance drawing

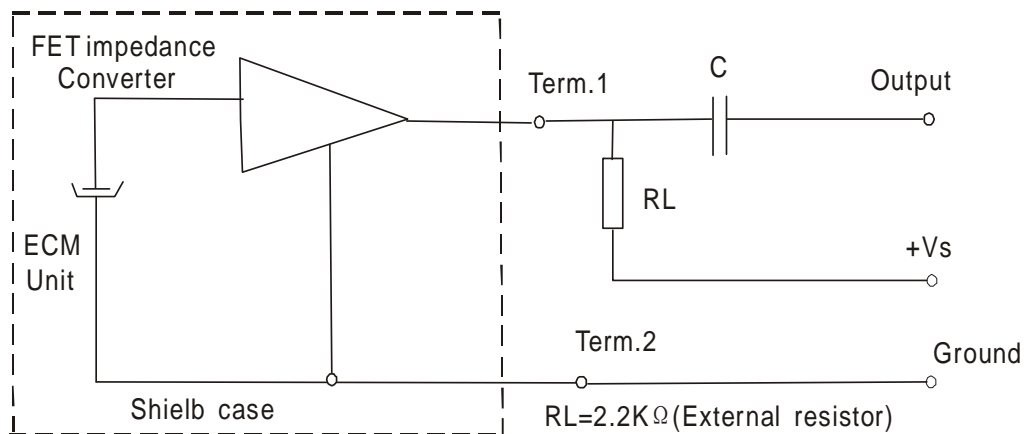
### C. TYPICAL FREQUENCY RESPONSE CURVE



### 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 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 Vibration	周波数 1/Frequency1:10Hz~55Hz 振幅/Amplitude:1.52mm 变化/Change of Frequency:1 octave/min 3 方向,各 1 小时/hours in each of 3 axes
5-2 高温试验 Dry Heat	+70℃ for 72 hours
5-3 低温试验 Dry Cold	-20℃ for 72 hours
5-4 高温高湿试验 Damp Heat	90%~95%RH, +40℃ for 72 hours
5-5 温度循环试验 Temperature cycles	-20℃ ↔ 25℃ ↔ 60℃ ↔ 25℃ (0.5h) (10 minutes) (0.5h) (10 minutes) x 5 cycles
5-6 跌落试验 Packing drop test	Height:1m 顺序:三个面各跌 1 次 Procedure:1 times from each of 3 axes
焊接条件	
Soldering Condition.	
7-2 电烙铁表面温度低于 300℃±10℃ 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。 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 .	
7-4 焊接时间控制在 3 秒内。 time for each terminal shall be3sec.	
7-5 焊接后不能出现针孔。 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。) 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.	