

# 規格承認書

SPECIFICATION FOR APPROVAL

客戶  
CUSTOMER : 立創  
項目  
ITEM : 咪頭  
型號  
TYPE : BL-MP9767P-34dB  
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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## 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
	石磊	zhang

## A. SCOPE

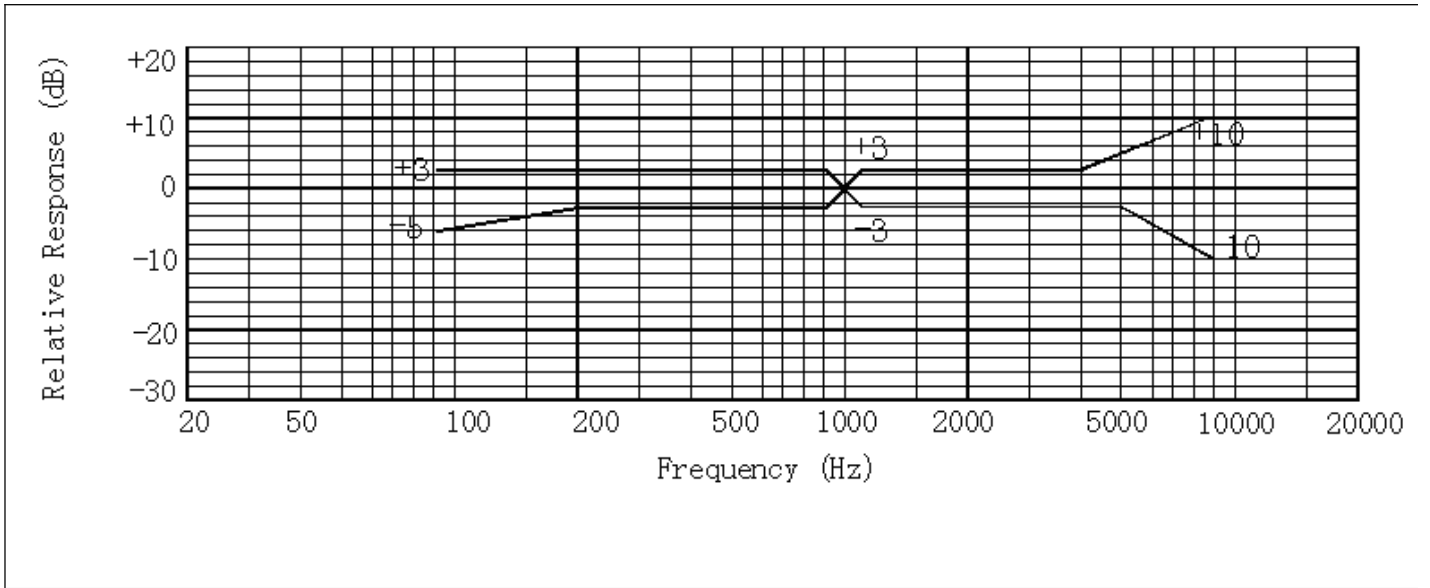
This specification applies electret condenser microphone, BL-MP9767 P-34dB

## B. SPECIFICATION

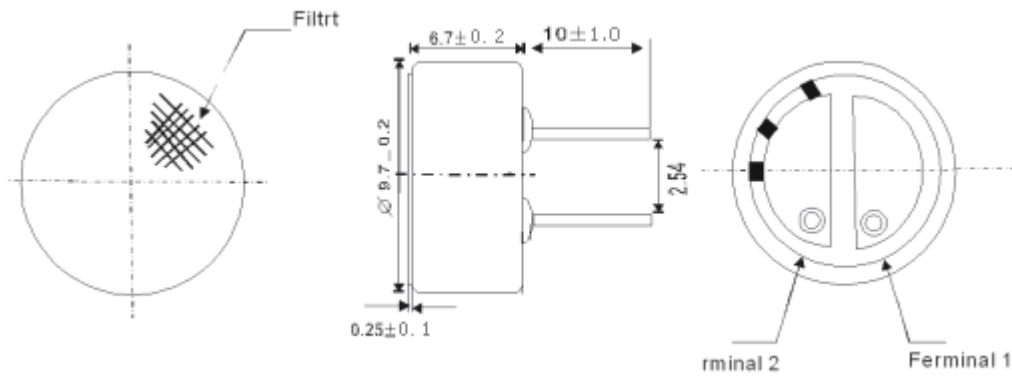
■ Test condition:  $R_L=2.2K\Omega$   $V_S=4.5V$   $TEMP=25^{\circ}C\pm 2^{\circ}C$  Related humidity= $65\pm 5\%$

No.	Item	Symbol	Unit	Specification	Condition
1	Directivity			Omnidirectional	
2	Sensitivity	<b>S</b>	dB	-34±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 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	$\varphi$ 9.7x6.7	See appearance drawing
12	Terminal			Terminal	See appearance drawing

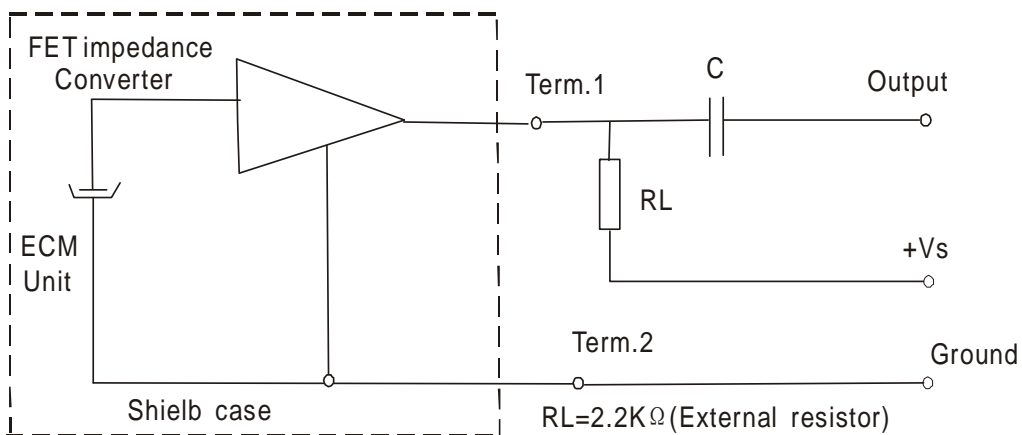
### C. TYPICAL FREQUENCY RESPONSE CURVE



### 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℃    70℃    - 20℃ (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.	