

# 麦克风选型，外围电路 及 Layout 指南

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文档履历

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# 1. 目标概述

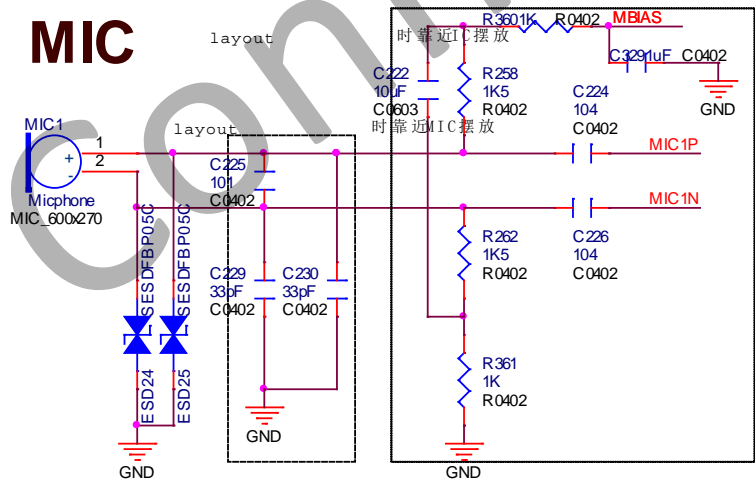
本指南用于指导应用者根据不同应用需求，选择麦克风类型及其外围电路，以及 PCB LAYOUT 注意点，达到高质量的录音效果。

# 2. 麦克风选型

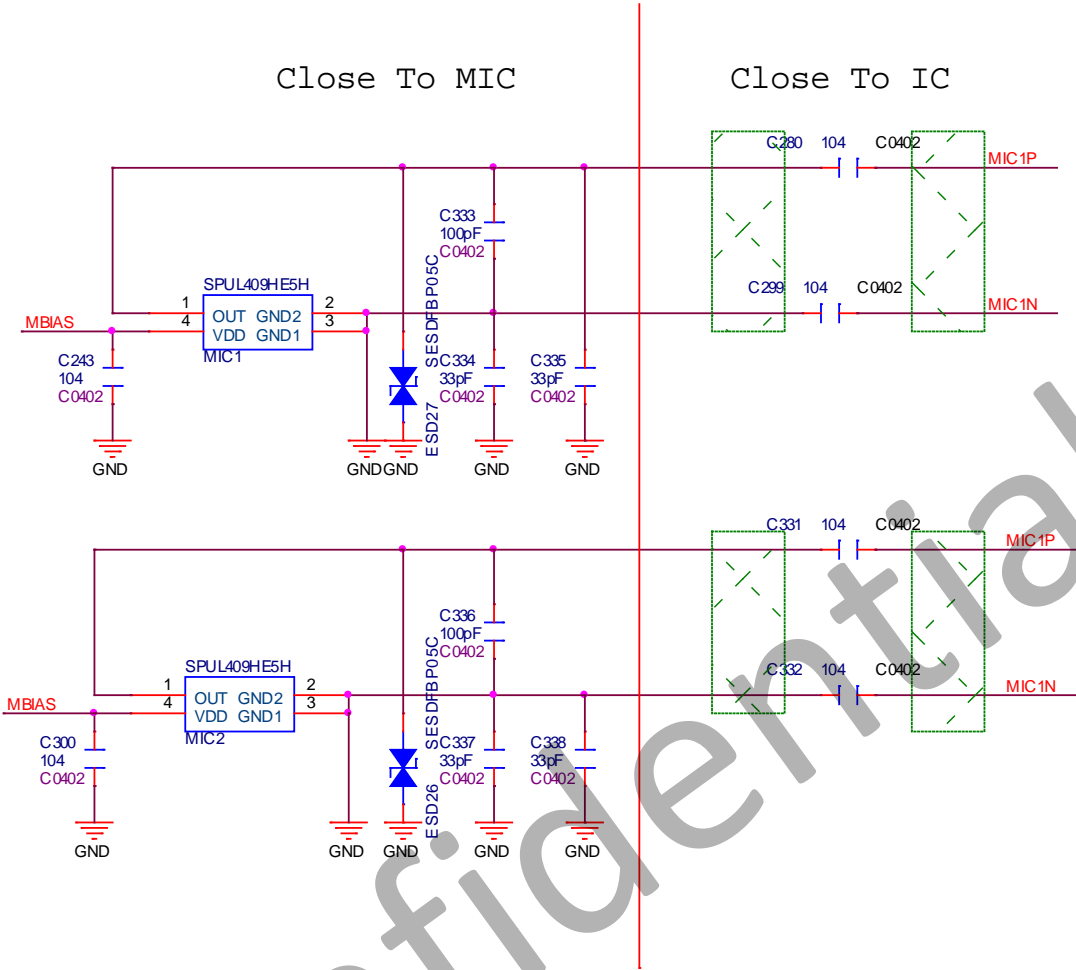
序号	应用场景	麦克风类型	灵敏度
1	普通录音（单 MIC）	驻极体	-42dB ~ -45dB(±3dB)
2	普通录音（双 MIC 降噪）	硅麦克风	-42dB ~ -45dB(±1dB)
3	视频通话（单 MIC）	驻极体	>= -38dB(±3dB)
4	视频通话（双 MIC 降噪）	硅麦克风	>= -38dB(±1dB)

# 3. 硬件电路

## 3.1. 内置驻极体麦克风外围电路

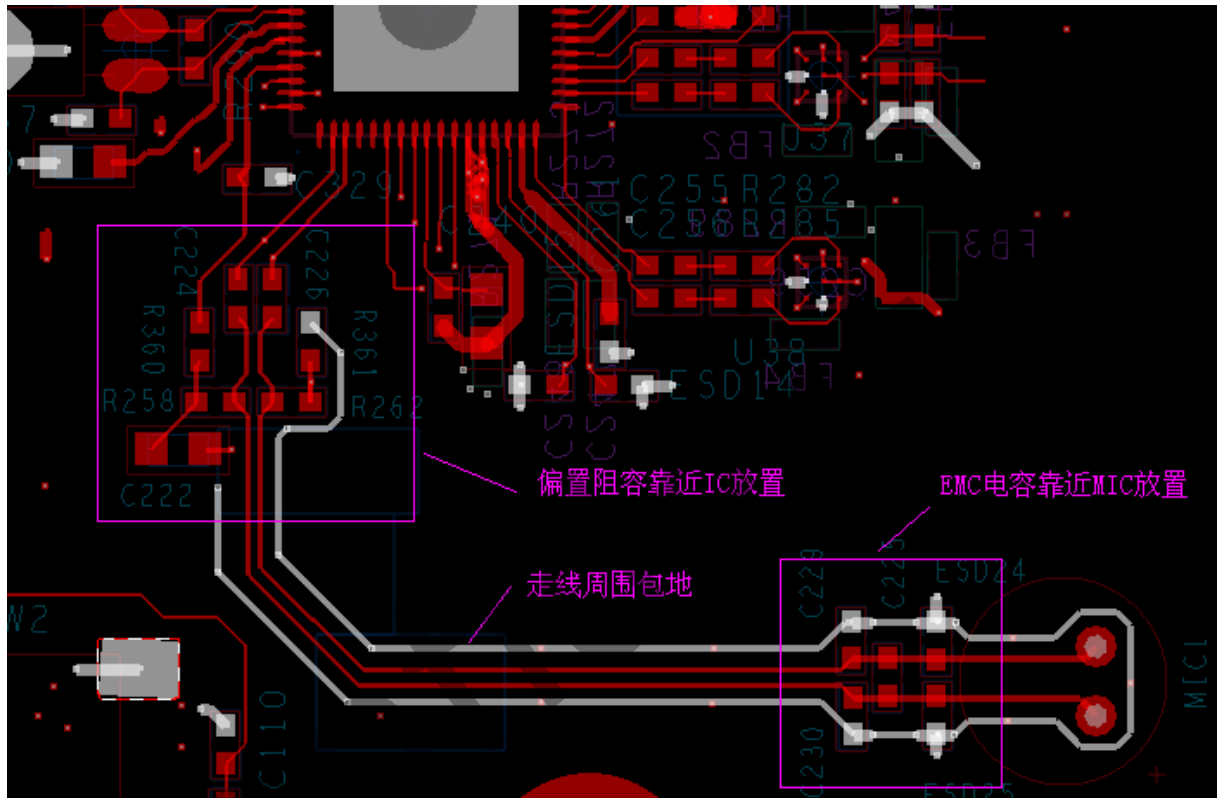


3.2. 内置硅麦克风外围电路



## 4. PCB LAYOUT

- 1.偏置阻容器件靠近 IC 放置；
- 2.EMC 电容靠近 MIC 放置；
- 3.MICP/N 走线差分，周围包地，间隔 100mil 打一过孔到主地。



## 5. Declaration

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