

FSA2000

无需电容耳机音频放大器可自动切换的 HS-USB 开关

特征

开关类型	USB+耳机放大器
开关机制	自动（在V _{BUS} 下USB）
USB检测	具备
USB	兼容高速与全速USB 2.0
音频放大器	AB类
放大器输出功率	40mW _{RMS} (32Ω)
放大器增益	0dB
总谐波失真+噪音	0.1%
信噪比	-90dB
电源电压抑制比	-95dB
V _{CC}	2.7V到4.3V
I _{CC} (Audio)	3mA
I _{CC} (USB)	6μA
封装	16-管脚 UMLP 1.80 x 2.60 x 0.55mm, 0.40mm 间距
订购信息	FSA2000UMX

应用场合

- 便携媒体播放器MP3
- 移动电话，智能电话

典型应用

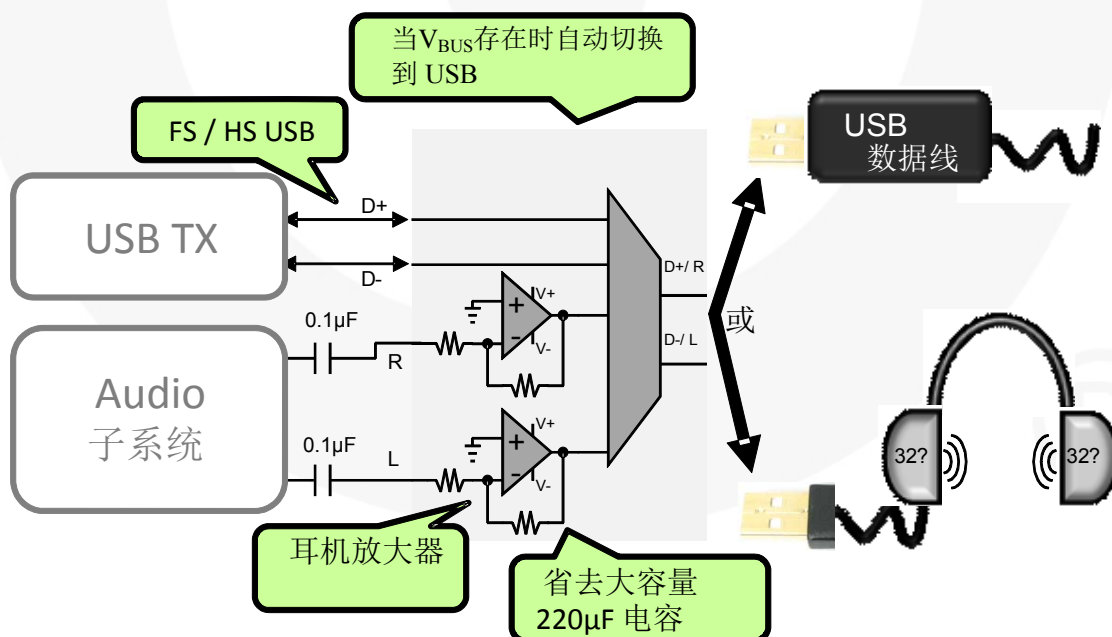


图 1. 移动电话

产品说明

FSA2000是一种低成本集成高速USB和音频开关，内置一个音频耳机放大器。其设计省去了很多当前立体声耳机中常用的分立元器件。其内置的立体声耳机驱动器，能够产生以地为中心的音频输出信号。无需大容量且昂贵的隔直电容。该耳机驱动器的驱动功率高达每通道40mW_{RMS}。

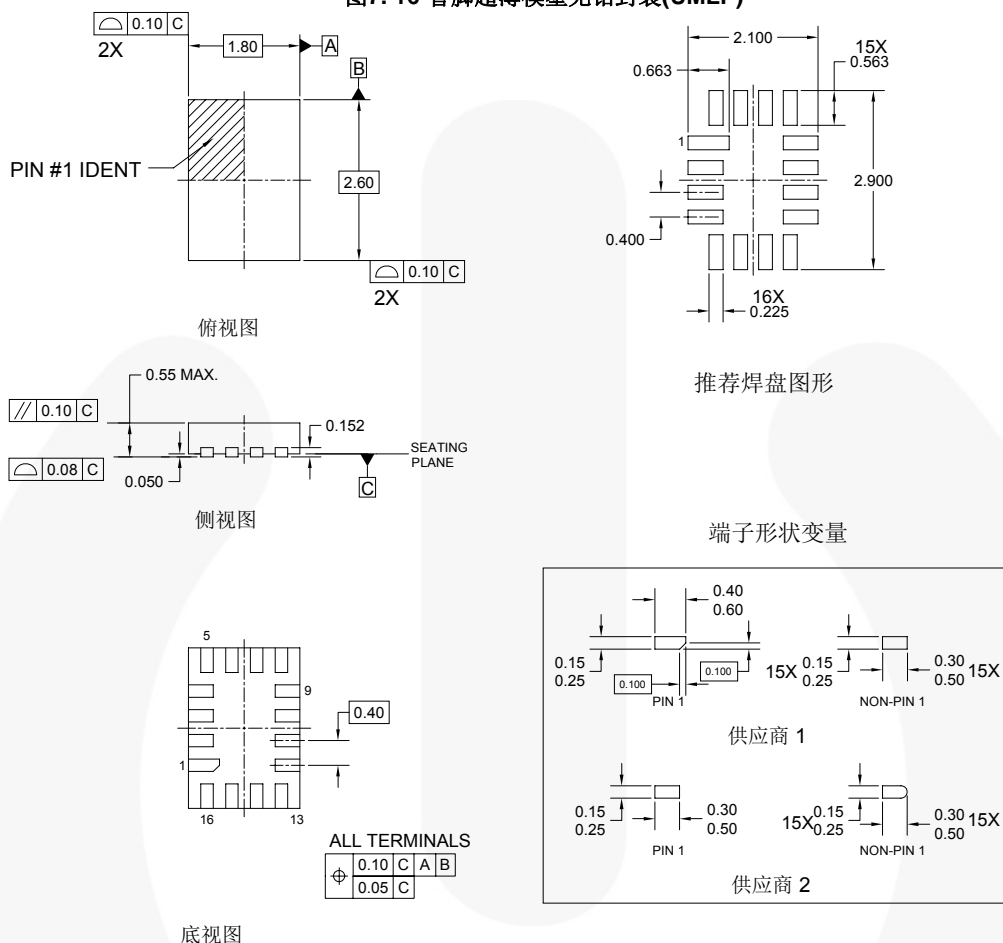
参考资料

FSA2000 演示板

- FSA2000评估板
- FDB323—FSA2000演示板用户手册
- FEB322 — FSA2000评估板用户手册
- [AN-8032—演示板快速入门指南](#)
- [AN-8031 —采用 FSA2000 静音功能降低音频“Click”和“Pop”噪声](#)
- 关于样品、疑问或电路板申请：请联系：Analog.Switch@fairchildsemi.com.

物理尺寸

图7. 16-管脚超薄模塑无铅封装(UMLP)



说明:

- A. 目本封装没有取得任何标准委员会的注册
- B. 尺寸单位为毫米
- C. 尺寸和公差满足ASMEY 14.5 M, 1994
- D. 对于不同封装供应商引脚形状会有变化, 参见引脚参数
- E. 焊盘图形为最短焊脚设计
- F. 制图文件名: UMLP16AREV3

订货号	工作温度范围	封装说明	包装方法
FSA2000UMX	-40 至 85°C	16-管脚超薄模塑无铅封装(UMLP)	带装和盘装

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Rev. 148