评估板用户指南

特性
- 可快速实现试验板试验/原型操作
- 用户自定义电路配置
- 支持边缘安装型SMA连接器
- 可轻松连接至测试设备和其它电路
- 符合RoHS标准

概述
ADI公司的高速通用评估板(EB-O8R-2Z)旨在帮助客户快速完成双通道运算放大器电路的原型设计，缩短设计时间。该评估板适用于几乎所有ADI公司的双通道运算放大器，支持各种配置和应用。图1显示的是评估板的器件侧，而图2显示的是评估板的电路侧。

该评估板是双层印刷电路板(PCB)，输入端和输出端支持SMA连接器，可高效连接至测试设备。接地层、器件放置和电源旁路经过精心布局，可以将寄生电感和电容降至最低。除旁路电解电容(C1、C2)为3528尺寸外，评估板器件主要采用SMT 0805外形尺寸。

电源旁路方式有两种。第一种是将分流电容(C3、C4)与电解电容(C1、C2)并联并从各电源连接到地。这种电源旁路技术可抑制电源线路上无用宽带噪声。其实现方法是在C5位置放置0 Ω电阻，在C1、C2、C3和C4位置放置分流电容。

第二种电源旁路方式是在供电轨之间连接一个电容。该方法使用的器件较少，并可改善较高频率下的电源抑制比(PSRR)。其实现方法是在C3位置放置0 Ω电阻，在C4位置放置旁路电容，而省略C5。最佳旁路方式视电路而定，因此必须由设计师进行评估。

图3显示的是评估板原理图。图4和图6显示的是评估板装配图。图5显示的是PCB器件侧布局图，而图7显示的是PCB电路侧布局图。

评估板的器件侧和电路侧图片

图1. EB-O8R-2Z评估板器件侧

图2. EB-O8R-2Z评估板电路侧

NOTES
1. THE EVALUATION BOARD SILKSCREEN PART NUMBER LABELING ON YOUR BOARD MAY BE DIFFERENT FROM WHAT IS SHOWN HERE.
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修订历史

2010年4月—修订版0：初始版
评估板原理图和PCB布局图
图4. 评估板器件侧装配图

图5. 评估板器件侧布局图

图6. 评估板电路侧装配图

图7. 评估板电路侧布局图
### 订购信息

#### 物料清单

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ESD 警告
ESD（静电放电）敏感器件。带电器件和电路板可能会在没有察觉的情况下放电。尽管本产品具有专利或专有保护电路，但在遇到高能量 ESD 时，器件可能会损坏。因此，应当采取适当的 ESD 防范措施，以避免器件性能下降或功能丧失。

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