

[名称]: 低功耗精密运算放大器

音频专用前级

[尺寸]: 50mm X 50mm

[供电电压范围]:最大±18V

产品特点 | Highlights

布局工整,用材大方,并且本宝贝可以随意的改成正向放大,反向放大,射随,积分电路等形式。

OPA1611超低噪声,属于音频系统强悍 前级。大家看参数就明白了。





模块介绍

opa1611(单)和 opa1612(双)的双极型输入运算放大器实现低1.1nv / \sqrt{Hz} 在1kHz 0.000015%超低失真Hz的噪声密度。opa1611和opa1612提供轨到轨输出摆幅在600mV用2K Ω 负荷,从而增加净空高度和最大动态范围。这些器件还具有高输出驱动能力±30mA。

这些器件工作在一个非常广泛的供应范围 ± 2.25 V ± 18 V, 只有 3.6 的供应每通道 电流。opa1612 opa1611和运算放大器的单位增益稳定,并提供优良的动态行为 较广泛的负载条件。

双版本的最低串音和自由完全独立的电路之间的相互作用的渠道,即使过载或过载。opa1611和opa1612在SO-8封装可指定从-40到+85°C。

主要特性

卓越的声音质量 单位增益稳定

超低噪声: 1.1nv /√Hz在1kHz 低静态电流: 3.6每通道

超低失真: 0.000015% 1kHz 轨到轨输出

带宽: 40MHz (G = +1) 单路和双路版本

开环增益: 130dB

应用: 专业音频设备

模拟和数字混合控制台

音频测试与测量

preamplifiers麦克风 广播录音设备 高端的A / V接收机

(信号输入) (信号输出) (信号和记录) (信息和记录) (信号和记录) (信号和记录) (信号和记录) (信号和记录) (信号和记录) (信码和记录) (信码和记录) (信码和记录) (信码和记录) (信息和记录) (信码和记录) (信码和

Sound M High-Performance, Bipolar-Input AUDIO OPERATIONAL AMPLIFIERS

Check for Samples: OPA1611, OPA1612

FEATURES

- SUPERIOR SOUND QUALITY
- ULTRALOW NOISE: 1.1nV/√Hz at 1kHz
- ULTRALOW DISTORTION: 0.000015% at 1kHz
- HIGH SLEW RATE: 27V/µs
- WIDE BANDWIDTH: 40MHz (G = +1)
 HIGH OPEN-LOOP GAIN: 130dB
- UNITY GAIN STABLE
- LOW QUIESCENT CURRENT:
 3.6mA PER CHANNEL
- · RAIL-TO-RAIL OUTPUT
- WIDE SUPPLY RANGE: ±2.25V to ±18V
- SINGLE AND DUAL VERSIONS AVAILABLE

APPLICATIONS

- PROFESSIONAL AUDIO EQUIPMENT
- MICROPHONE PREAMPLIFIERS
- ANALOG AND DIGITAL MIXING CONSOLES
- BROADCAST STUDIO EQUIPMENT
- AUDIO TEST AND MEASUREMENT
- HIGH-END A/V RECEIVERS

DESCRIPTION

The OPA1611 (single) and OPA1612 (dual) bipolar-input operational amplifiers achieve very low $1.1nV/\sqrt{Hz}$ noise density with an ultralow distortion of 0.000015% at 1kHz. The OPA1611 and OPA1612 offer rail-to-rail output swing to within 600mV with a $2k\Omega$ load, which increases headroom and maximizes dynamic range. These devices also have a high output drive capability of $\pm 30mA.$

These devices operate over a very wide supply range of $\pm 2.25 \text{V}$ to $\pm 18 \text{V}$, on only 3.6mA of supply current per channel. The OPA1611 and OPA1612 op amps are unity-gain stable and provide excellent dynamic behavior over a wide range of load conditions.

The dual version features completely independent circuitry for lowest crosstalk and freedom from interactions between channels, even when overdriven or overloaded.

Both the OPA1611 and OPA1612 are available in SO-8 packages and are specified from -40°C to +85°C

