

MINI DIGITAL AMPLIFIER - ALF PA2B

Compact-size digital amplifier



DESCRIPTION

The PA2B is a compact-sized digital amplifier (Class-D) with 3 inputs (2 lines in and 1 balanced MIC). It has got functions including bridge connection, dual-mono, EQ control and microphone mixer etc. It has a power rating of 2x20 Watt @ 4 Ohm. It can be used in applications including classrooms, small meeting rooms, lecture hall, Restaurants and Pubs.

FEATURES

- 2 x 20 Watt@4 Ohm as the default amplifier output.
- Bridge connection function. User can switch the PA2B to be 1 x 40Watt@8 Ohm by bridge connection.
- Two stereo audio inputs, switchable by button, IR remote & RS232.
- Volume /Base/Treble controllable by buttons IR remote & RS232.
- MIC port can support balance/unbalance signal, suppress the external noise effectively.
- Line audio output at 3.5mm jack, with volume controllable.
- Dual-mono up the stereo audio to two times mono audio.
- MIC mixer function. The microphone will be mixed to the line audio output, and be controlled separately.
- MIC input supports 48V phantom power, dynamic MIC and Wireless MIC.
- Auto noise gate. It keeps detecting the audio and MIC input, will mute the output when there is no input.
- Ultra low inrush current, no need for power sequencing and this allows multiple PA2B to be powered on simultaneously without overloading power circuits.
- Convection cooled, the fan is not needed.
- Anti-static case design: providing good protection for long-term and stable performance.

TECHNICAL SPECIFICATIONS

Compact-size digital amplifier

Audio Input

Input	: 2 stereo audio, 1 MIC
Input connector	: 2 RCA, 1 3.5mm jack, 1 pluggable terminal block (3P, 3.81mm)
Input Impedance	: >10K Ω

Audio Output

Output	: 1 amplifier, 1 stereo audio
Output connector	: 1 3.5mm jack, 1 pluggable terminal block (4P, 5.08mm)
Output Impedance	: 50 Ω /Stereo, 4~8 Ω /Amplifier

Audio General

Frequency Response	: 20Hz ~ 20KHz
CMRR	: >70dB@20Hz ~ 20KHz
SNR	: 80dB at maximum output
Bandwidth	: 20Hz ~ 25KHz
Stereo Channel Separation	: >75dB@20Hz to 20KHz
THD + Noise	: 1%@1KHz, 0.3%@20KHz at nominal level
Voltage Gain	: 32dB
Power Output	: 2x20 Watts (4 Ohms)

Control Function

RS232 Control	: 3-hole phoenix connector
Panel Control	: Optional button control
IR Remote	: Optional IR remote/

SYSTEM DESIGN

