



### Specifications: SA502

### Mounting hardware included

Input Impedance	47 kohm line level, 600 ohm balanced
Input Sensitivity	0.5 v line input
THD+ Noise	<.1% below rated output power
Frequency Response ( $\pm$ 3 dB)	20 Hz - 20 kHz
Max Gain	34 dB (8 ohm)
Power per Channel @ < 10 % THD	55 watts (8 ohm) 2 x 70 watts (4 ohms)
Power per Channel @ < 1 % THD	50 watts (8 ohm) 65 watt (4 ohm)
Bridged Mono Power @ < 1 % THD	90 watts (4 ohm)
Power Output	50 Hz - 20 kHz +0, -3 dB
Power Requirements	32 v DC, 3.75A
Signal to Noise Ratio	> 83 dB (50 watts)
Amplifier Output Power	50 Watts RMS >.5% THD
Port length	101.6 mm (4.0 in.)
Inputs	RCA Unbalanced/Single Euro Block Balanced - 500 mV for full output
Height (SM = Height)	30.5 mm / 1.2 in
Diameter (SM = Width)	99.1 mm / 3.9 in
SM Depth (Including Bracket)	101.6 mm / 4.0 in
Weight	0.26 kg / 0.56 lbs
Accessories Optional	Rack Mount Adapter (AC-SA502-RMA)
Regulatory - UL	planned
Regulatory - CE	approved
Regulatory - RoHS	approved
Regulatory - CCC	approved

## Description

34 dB maximum gain with 2 x 50 watt output. Three operating modes: stereo, mono or bridged mono. Three user selectable inputs: balanced stereo (Euroblock), stereo unbalanced mini jack, or high level Euroblock. External 12-32 V trigger. Signal detecting auto standby to conserve energy. Dual concentric gain controls for independent channel control. 20 Hz- 20 kHz frequency response. 120 Hz high pass switch. Small size- 1.2" x 3.9" x 4". Rugged aluminum housing.

## Applications

Small, powerful and cost-effective, the SA502 is engineered for external amplification with SoundTube and other high-fidelity speakers. Additional applications include digital signage, education, point of purchase, museums, surgical centers, AV carts or any application where a small amplifier is needed to boost a limited source output (e.g., computers, A/V projectors, etc.).

## Patented

## SoundTube Technologies

SoundTube and MSE Audio Group constantly develop new technologies that enhance audio product performance. SoundTube innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dispersion, enclosure and dome technologies. MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end users.

## Technical Data and Specification Tools

### Technical Data

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at [www.soundtube.com](http://www.soundtube.com). Technical data and downloads include: EASE™ data - 3-D polar plots. EASE™ Address - 2-D modeling for distributed systems Autodesk® Revit® software Tech Sheets - Technical information and

architectural specs for system engineers  
SoundTubeSPEC™ -  
Proprietary speaker placement software

## Data Acquisition and Verification

All data for SoundTube speakers are independently collected from and verified by NWAALabs ([www.nwaalabs.com](http://www.nwaalabs.com)) using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASRA, TEF and MLSSA. Full balloon data including both phase and magnitude are compiled into a variety of formats including EASE 4.x, GLL and CLF.

## Preliminary Technical Information

- 34 dB maximum gain with 2 x 50 watt output.
- Three operating modes: stereo, mono or bridged mono
- Three user selectable inputs: balanced stereo (euroblock), stereo unbalanced mini jack, or high level euroblock.
- External 12-32 V trigger
- Signal detecting auto standby to conserve energy
- Bi-color LED on front panel indicates when unit has power (red) and when signal is sensed (blue).

- Dual concentric gain controls for independent channel control
- 20 Hz- 20 kHz frequency response
- 120 Hz high pass switch (defeatable)
- Small size- 1.2" x 3.9" x 4"
- Rugged aluminum housing
- Optional Accessories: rack mount adapter kit (AC-SA502-RMA)

## Architectural Specifications

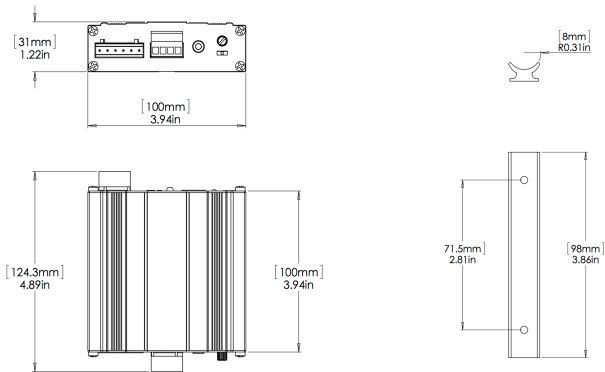
The amplifier shall be a 50-watt per channel (8 ohm) Class D amplifier. The amplifier shall provide three inputs including a balanced stereo euroblock, unbalanced line level mini jack, and a stereo speaker level (amplified) euroblock input for applications with low wattage speaker outputs. The SA502 also includes a variable 34 dB maximum gain control. The amplifier shall provide three operating modes including stereo, dual mono, or bridged mono. Performance specifications of a typical production unit shall be as follows: 50 watts per channel (20 Hz - 20 kHz, 8ohm, stereo) or 65 watt per channel (20Hz - 20 kHz, 4 ohm stereo) at 1% THD. The high-pass filter shall have an f3 of 120 Hz and a slope 12

dB per octave. The external wiring output connector shall be a Euroblock connector that accepts from 12 - 22-gauge wire. The power input shall either be by three pin Euroblock that accepts from 12 -22-gauge wire or barrel connection. The system shall be for indoor applications. The enclosure shall be constructed of extruded aluminum with integrated heat-sink fins. Overall cabinet dimensions shall be no more than 30.5 mm(1.2 in.) in height by 99.1 mm (3.9 in.) in width and 101.6 mm (4.0 in.) in depth. The system shall include the amplifier, pole/surface mount adapter, power supply, stereo RCA female to mini male adapter, two male 4-pin euroblock connector and two 3-pin euroblock connectors. The system shall be the SA502 for amplification.

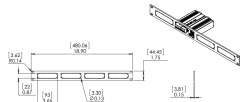
### SoundTube

8005 W. 110th St. | Suite 208  
Overland Park, KS 66210  
Phone 9136635600  
Fax 8556635600  
Toll Free 8556635600  
<http://soundtube.mseaudio.com>  
All SoundTube products come with a 5-year limited warranty.

## Mechanical Drawings



## Optional Accessories



**Rack Mount Adapter (AC-SA502-RMA)**