



SOLUTIONS FOR ALL YOUR APPLICATIONS

Stock No.
5450
User Manual

ACA Series

Apartment Complex Amplifiers

Model	Stock No.
ACA-30-550	5450



DESCRIPTION

The Blonder Tongue ACA-30-550 is a 550 MHz broadband indoor hybrid distribution amplifier designed for RF distribution systems whose input signal source is a "cable drop", the output of an MATV headend, or a small CATV headend.

The amplifier is designed for apartment house complex, hospital, prison or hotel applications. The ACA-30-550 has a flat operational gain, which is variable from 12 to 32 dB using a built-in gain control. A variable slope control with 10 dB of range is also provided. Using a push-pull hybrid module as its gain block, it delivers high output level signals with low distortion.

The unit is powered via an external AC/DC adapter.

FEATURES

- Hybrid IC Circuitry for High Output with Low Distortion
- Exceptional Temperature Stability Range of -20° C to +60° C
- Low 47 MHz Band Edge
- Line Transient Protection
- Universal AC/DC Adapter

800-523-6049
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Made in China

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The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER FROM THIS UNIT.
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

WARNING: TO PREVENT SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE

NOTE TO CATV INSTALLERS

This reminder is provided to call the CATV System Installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

SPECIFICATIONS

RF	
Frequency Range (MHz):	47-550
Channel Loading:	77
Flatness (dB):	±1.00
Gain (Reverse) (dB):	32, (--)
Noise Figure (dB) (a):	7.0
Output Level (dBmV):	+36/+44
Gain Control Range (dB):	20
Slope Control Range (dB):	10
Composite Triple Beat - CTB (dB) (b):	-64
Cross Modulation - XMOD (dB) (b):	-64
Composite Second Order - CSO (dB) (b):	-64
Hum Modulation (dB):	-65
Input Return Loss (dB):	14 dB
Output Return Loss (dB):	14 dB

General	
Dimensions (WxHxD):	8.875" x 4.5" x 1.875" inches (225.42 mm x 114.3 mm x 47.63 mm)
Power Requirements:	External Power Supply Input 100-240VAC 50/60Hz Output 24VDC, 1000mA
Weight:	3.7 lbs (1.7kg)
Operating Temperature Range (°C):	-20 to +60

Notes:

(a) Measured at full gain with 0dB slope.

(b) At rated output capability and channel loading.

INSTALLATION CAUTION NOTES

1. Connect Only to AC/DC Adapter Supplied with Amplifier.

INSTALLATION PRECAUTIONS TABLE

PRECAUTION	REQUIREMENT
Ensure easy access to rack wiring	Allow a minimum of 18 in. (50 cm) clearance behind the equipment rack(s).
Facilitate servicing and maintenance	Allow a minimum of 36 in. (100 cm) clearance in front of equipment rack(s).
Avoid direct heating or air conditioning	If unavoidable, use deflector plates.
AC power source outlets	Locate equipment near sufficient outlets to provide power for test equipment and power tools.
Rack support	Make certain rack supports are sufficiently rigid to support rack(s).
Building leakage	Beware of dripping water onto equipment from leaky roofs, waveguide roof entries, and cold water pipe condensations.

Returning Product for Repair (or Credit)

A Return Material Authorization (RMA) Number is required on all products returned to Blonder Tongue, regardless if the product is being returned for repair or credit. Before returning product, please contact the Blonder Tongue Service Department at 1-800-523-6049, Ext. 4256 or visit our website: www.blondertongue.com for further information.