



# Blonder Tongue

# ACA-35-1000

## Apartment Complex Amplifier

### SOLUTIONS FOR ALL YOUR APPLICATIONS

The **ACA-35-1000** is an economical 1 GHz indoor broadband distribution amplifier, designed for RF distribution systems, such as apartment complexes, hospitals, schools, prisons, and hotels.

The **ACA-35-1000** amplifier has 35 dB of operational gain and has a gain control range of 16 dB. These amplifiers employ push/pull discrete amplifier stages with surface mount technology. The unit is housed in a compact, aluminum chassis that provides excellent heat dissipation, and is powered by an internal 117 VAC power supply.



## Features

- One-Way Operation 40 to 1000 MHz
- Discrete Push-Pull Amplifier Stages
- Built-in Variable Gain Control
- Surface Mount Technology

## Ordering Information

Model	Stock #	Description
ACA-35-1000	5470	Apartment Complex Amplifier; 35 dB, 40-1000 MHz, Push/Pull Discrete

# Specifications

## RF

<b>Frequency Range:</b>	40-1000 MHz
<b>Channel Loading:</b>	70
<b>Flatness:</b>	±1.00 dB
<b>Gain:</b>	35 dB
<b>Noise Figure (a):</b>	11 dB
<b>Output Level:</b>	+30/+40 dBmV
<b>Input Test Port Level:</b>	-20, ±2 dB
<b>Output Test Port Level:</b>	-20, ±2 dB
<b>Gain Control Range:</b>	18 dB
<b>Composite Triple Beat - CTB (b):</b>	-66 dB
<b>Cross Modulation - XMOD (b):</b>	-65 dB
<b>Second Order (b):</b>	-66 dB
<b>Hum Modulation:</b>	-65 dB
<b>Impedance - All Ports:</b>	75 Ohm
<b>Return Loss</b>	
<b>Input:</b>	12 dB
<b>Output:</b>	10 dB

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

(b) At rated output capability and channel loading.

## Connectors

<b>RF Input:</b>	"F", Female
<b>RF Output:</b>	"F", Female
<b>Output Test Port:</b>	"F", Female

## Indicators/Controls (Top Panel)

<b>Power ON:</b>	Red LED
<b>Gain:</b>	Control

## Power Requirements

<b>Voltage:</b>	117, ±10% VAC 16 VAC
<b>Frequency:</b>	60 Hz
<b>Power:</b>	15 W

## General

<b>Dimensions (W x D x H):</b>	7.25 x 6.00 x 1.75 inches (184 x 152 x 44 mm)
<b>Weight:</b>	3.63 lbs (1.65 kg)
<b>Operating Temperature:</b>	32 to 122 °F (0 to 50 °C)
<b>Storage Temperature:</b>	-13 to 158 °F (-25 to 70 °C)
<b>Operating Humidity:</b>	0 to 95% RH @ 35 °C max, non-condensing
<b>Storage Humidity:</b>	0 to 95% RH @ 35 °C max, non-condensing

## Related Products

Model	Stock #	Description
ACA-30-550	5450	Apartment Complex Amplifier; 30 dB, 47-550 MHz
ACA-30-55R	5750	Apartment Complex Amplifier; 30 dB, 47-550 MHz, Passive Return, Single Hybrid
ACA-30-75R	5770	Apartment Complex Amplifier; 30 dB, 47-750 MHz, Passive Return, Dual Hybrid