

# Broadband CATV Distribution Amplifier

ACA 35-1000



## ○ Features & Benefits

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

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 ACA -35-1000 is housed in a compact, aluminum chassis that provides excellent heat dissipation. The amplifier is powered via an internal 117 VAC power supply.

## ○ Specifications

### RF

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

### Controls (Top Panel)

Gain: Control

### Indicators

Power ON: Red LED

### General

Power Requirements  
Voltage: 117,  $\pm 10\%$  VAC  
16 VAC  
Frequency: 60 Hz  
Power: 15 W  
Temperature Range: 0 to +50  $^{\circ}\text{C}$

### Mechanical

Dimensions (H x W x D):  
7.25 x 6.00 x 1.75 in.  
184 x 152 x 44 mm  
Weight: 3.63 lbs., 1.65 kg

### Connectors

Power DIN, 5 Pin  
RF Input: "F", Female  
RF Output: "F", Female  
Output Test Port: "F", Female

### Notes

- (a) Measured at full gain with 0 dB slope.  
(b) At rated output capability and channel loading.

## ○ Ordering Information

Model	Stock No.	Description
ACA-35-1000	5470	Apartment Complex Amplifier 35 dB, 40-1000 MHz, Push-Pull Discrete