

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: ± 1.00 dB
Gain: 35 dB
Noise Figure (a): 11 dB
Output Level: +30/+40 dBmV
Input Test Port Level: -20, ± 2 dB
Output Test Port Level: -20, ± 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 Ω
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 $^{\circ}$ 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