ACA 35-1000

Broadband CATV Distribution Amplifier

❍ Features & Benefits

- One-Way Operation 40 to 1000 MHz
- Discete 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
Number Of Hybrids: discrete
Hybrid Technology: Push-Pull
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 (c): 117, ±10% VAC
  16 VAC
  Frequency: 60 Hz
  Power: 15 W
Temperature Range: 0 to +50 °C

Mechanical

Dimensions (LxWxD):
  7.25 x 6.00 x 1.75 in.
  184 x 152 x 44 mm
Weight: 3.63 lbs (1.65 kg)

Connectors (Top Panel)

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

Notes
(a) Measured at full gain with 8 dB slope.
(b) At rated output capability and channel loading.

❍ Ordering Information

Model	Description
ACA-35-1000	Apartment Complex Amplifier 35dB, 40-1000MHz, Push-Pull Discrete