

# ACA 35-1000

## Broadband CATV Distribution Amplifier



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.

### ○ Features & Benefits

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

### ○ 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  
Number Of Hybrids: discrete  
Hybrid Technology: Push-Pull  
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 (c): 117,  $\pm 10\%$  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	Stock No.	Description
ACA-35-1000	5470	Apartment Complex Amplifier 35dB, 40-1000MHz, Push-Pull Discrete

Order From:  **MULTICOM**

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