

ACA-35-1000

Apartment Complex 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 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

Rev: 062917
Blonder Tongue is ISO 9001:2015 Certified

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 Ohm
Return Loss	
Input:	12 dB
Output:	10 dB

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

(b) At rated output capability and channel loading.

Connectors

RF Input:	"F", Female
RF Output:	"F", Female
Output Test Port:	"F", Female

Indicators/Controls (Top Panel)

Power ON:	Red LED
Gain:	Control

Power Requirements

Voltage:	117, ±10% VAC 16 VAC
Frequency:	60 Hz
Power:	15 W

General

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