

ACA 30 Series

Broadband CATV Distribution Amplifiers



ACA-30-550

ACA-30-xxR

The ACA Series are indoor broadband distribution amplifiers designed to be used in RF distribution systems such as those for apartment complexes, hospitals, schools, prisons, and hotels. Two way models are available in 550, 750 and 860 MHz bandwidths with a passive return path of 5-30 MHz. A one way model is also available in a 550 MHz bandwidth only.

ACA's are housed in a compact, aluminum chassis that provides excellent heat dissipation. An external power transformer is provided for use with 117 VAC power. The unit can also be powered directly with 24 VAC.

○ Features & Benefits

- Models Available in 550, 750 and 860 MHz Bandwidths
- Built-in Variable Gain and Slope Controls
- Push-Pull Hybrid Module Design
- Aluminum Chassis Provides Excellent Heat Dissipation
- External UL Listed Power Transformer
- 5-30 MHz Passive Return Models

○ Specifications

RF	ACA 30-550	ACA 30-55R	ACA 30-75R	ACA 30-86R
Frequency Range (MHz):	47-550	5-30 47-550	5-30 47-750	5-30 47-860
Channel Loading:	77	77	110	129
Flatness (dB):	±1.00	±1.00	±1.00	±1.00
Gain (Reverse) (dB):	32, (-)	31, (-.75)	31, (-.75)	31, (-.75)
Noise Figure (dB) (a):	7.0	8.5	9.0	9.0
Output Level (dBmV) (d):	+36/+44	+36/+44	+34/+44	+34/+44
Gain Control Range (dB):	20	15	15	15
Slope Control Range (dB):	10	10	10	10
Composite Triple Beat - CTB (dB) (b):	-64	-64	-63	-56
Cross Modulation - XMOD (dB) (b):	-64	-64	-62	-58
Composite Second Order - CTB (dB) (b):	-64	-58	-64	-58
Hum Modulation (dB):	-65	-65	-65	-65
Return Loss				
Input (dB):	14	12	12	12
Output (dB):	14	12	12	12
General				
Power Requirements				
Voltage (VAC) (c):	117, ±10%	117, ±10%	117, ±10%	117, ±10%
24	24	24	24	
Frequency (Hz):	60	60	60	60
Power (W):		19	19	19
Temperature Range (°C):	-20 to +60	-20 to +60	-20 to +60	-20 to +60
Mechanical				
Dimensions (LxWxD):				
(in)	8.00 x 5.50 x 2.50	7.50 x 5.63 x 2.00	7.50 x 5.63 x 2.00	7.50 x 5.63 x 2.00
(mm)	203 x 146 x 64	191 x 143 x 51	191 x 143 x 51	191 x 143 x 51
Weight:				
(lbs)	4.1	3.1	3.1	3.1
(kg)	1.86	1.36	1.36	1.36

Notes

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

○ Ordering Information

Model	Description
ACA-30-86R	Apartment Complex Amplifier 30dB, 47-860MHz, Passive Return, Dual Hybrid
ACA-30-75R	Apartment Complex Amplifier 30dB, 47-750MHz, Passive Return, Dual Hybrid
ACA-30-55R	Apartment Complex Amplifier 30dB, 47-550MHz, Passive Return, Single Hybrid
ACA-30-550	Apartment Complex Amplifier 30dB, 47-550MHz

Distribution