

ACA-30-xxR Series

Apartment Complex Amplifier



The **ACA-30-xxR Series** with **Passive Return Path** are hybrid indoor broadband distribution amplifiers designed to be used in RF distribution systems such as those for apartment complexes, hospitals, schools, prisons, and hotels. Ideal for RF distribution systems whose input signal source is a "cable drop", the output of an MATV headend or a small CATV headend.

Three models are available with bandpass ranges of 47-550 MHz, 47-750 MHz, and 47-860 MHz.

Each model is powered by an external AC/DC adapter.



Features

- Hybrid IC Circuitry for High Output with Low Distortion
- Exceptional Temperature Stability Range of -20° C to +60° C
- Low 47 MHz Band Edge
- Line Transient Protection

Ordering Information

Model	Stock #	Description
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
ACA-30-86R	5780	Apartment Complex Amplifier; 30 dB, 47-860 MHz, Passive Return, Dual Hybrid

Rev: 103117
Blonder Tongue is ISO 9001:2015 Certified

Specifications

Model: Stock No:	ACA-30-55R 5750	ACA-30-75R 5770	ACA-30-86R 5780
RF			
Frequency Range (MHz):	5-30 47-550 MHz	5-30 47-750 MHz	5-30 47-860 MHz
Channel Loading:	77	110	129
Flatness (dB):	±1.00	±1.00	±1.00
Gain (Reverse)(dB):	31, (-.75)	31, (-.75)	31, (-.75)
Noise Figure (dB)(a):	8.5	9.0	9.0
Output Level (dBmV):	+36/+44	+34/+44	+34/+44
Gain Control Range (dB):	15	15	15
Slope Control Range (dB):	10	10	10
Composite Triple Beat - CTB (dB)(b):	-64	-63	-56
Cross Modulation - XMOD (dB)(b):	-64	-62	-58
Composite Second Order - CSO (dB)(b):	-58	-64	-58
Hum Modulation (dB):	-65	-65	-65
Input Return Loss (dB):	12	12	12
Output Return Loss (dB):	12	12	12
General			
Power Input: (ext AC/DC adapter)Output:	100-240 VAC 50/60 Hz 0.6A 24VDC 1000mA		
Operating Temperature Range:	-20 to +60 °C		
Mechanical			
Dimensions (LxWxH):	6.3" x 8.86" x 2.76" in (160 mm x 225 mm x 70 mm)		
Weight:	3.7 lbs (1.7kg)		

Notes: (a) Measured at full gain with 0 dB slope. (b) At rated output capability and channel loading.



Related Products

Model	Stock #	Description
ACA-30-550	5450	Apartment Complex Amplifier; 30 dB, 47-550 MHz
ACA-35-1000	5470	Apartment Complex Amplifier; 35 dB, 40-1000 MHz, Push/Pull Discrete