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INSTRUCTION MANUAL

ACA SERIES

Apartment Complex Amplifiers with Passive Return Path

Model	Stock No.
ACA-30-45R	5740 & B5740
ACA-30-55R	5750 & B5750
ACA-30-75R	5770 & B5770
ACA-30-86R	5780 & B5780

DESCRIPTION

The Blonder Tongue two-way Apartment Complex Amplifiers with passive return path are broadband indoor hybrid distribution amplifiers designed for RF distribution systems whose input signal source is a "cable drop", the output of an MATV headend, or a small CATV headend. Four models are available: the #5740 with a 47 to 450 MHz bandpass, the #5750 with a 47 to 550 MHz bandpass, the #5770 with a 47 to 750 MHz bandpass, and the #5780 with a 47 to 860 MHz bandpass.

Allaredesignedforapartmenthousecomplex, hospital, prisonorhotel applications. They have flat operational gain which is variable within the range of 16 dB to 32 dB (see Specifications for typical value of each model) using a built-in gain control and have a slope control with 15 dB of range. Using a push-pull hybrid module as its gain block, they will deliver high output level signals with low distortion.

The units can be powered by 117 volts AC with the external power transformer supplied or by 24 volts AC. Stock No's. B5740, B5750, B5770 and B5780 are supplied with a 220V, 50Hz transformer with a 2 ft. line cord.

FEATURES

- Hybrid IC Circuitry for High Output with Low Distortion
- Exceptional Temperature Stability Range of -18° C to +60° C
- Low 47 MHz Band Edge
- Line Transient Protection
- Externally Accessible Gain and Slope Controls for Easy Adjustments
- External "UL Listed" Power Transformer



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER FROM THIS UNIT.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO PREVENT SHOCK HAZARD. DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE

NOTE TO CATV INSTALLERS

This reminder is provided to call the CATV System Installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

SPECIFICATIONS (Typical)

Madala	AOA 00 4FB	404 00 FFB	404 00 7FD	404 00 00D	
Model:	ACA-30-45R	ACA-30-55R	ACA-30-75R	ACA-30-86R	
Stock No.:	5740 & B5740	5750 & B5750	5770 & B5770	5780 & B5780	Unit
Frequency Range:	47-450	47-550	47-750	47-860	MHz
Gain:	31	31	31	31	dB
Flatness:	±1.0	±1.0	±1.0	±1.0	dB
Gain Control Range:	15	15	15	15	dB
Slope Control Range:	10	10	10	10	dB
Input Return Loss:	14	12	12	12	dB
Output Return Loss:	14	12	12	12	dB
Noise Figure:	8.0	8.5	9.0	9.0	dB
No. of Channels (CTB & XMD):	60	77	110	129	
Output Level:	+46	+44	+44	+44	dBmV
Composite Triple Beat (CTB):	-60	-58	-55	-48	dB
Crossmodulation (XMOD):	-61	-61	-58	-54	dB
2nd Order Inter-modulation:	-75	-70	-68	-72	dB
Hum Modulation:		-65			dB
Operating Temperature Range:		-18°C to +6	0°C		
Power Supply Requirements					
@117 VAC, 60 Hz (with Power T	ransformer) for 57	xx: 0.25A		0.3A	
@220 VAC, 50 Hz (with Power T				0.15A	
@24 VAC, 60 Hz (without Power Transformer):		0.65A	0.65A		
Size:	,	8-7/8 x 6-1/8 x	2-3/8		W x H x D, inches
		22.5 x 15.6 x	6.0		W x H x D, cm
Shipping Weight (Including Power S	Supply):	4			lbś.
• • • •	,	1.8			kg.
Passive Return Path					-
Frequency Range:		5 - 30			MHz
Loss:		0.75	0.75		dB
Flatness:	Flatness:				dB
Input Return Loss:		14			dB
Output Return Loss:		14			dB

INSTALLATION CAUTION NOTES

- 1. Connect Only to Transformer Supplied with Amplifier.
- 2. Do Not Short Power Supply Terminals. Protective Fuse Inside of Sealed Power Supply Case Will Open.

INSTALLATION PRECAUTIONS TABLE

PRECAUTION	REQUIREMENT
Ensure easy access to rack wiring.	Allow a minimum of 18 in. (50 cm) clearance behind the equipment rack(s).
Facilitate servicing and maintenance.	Allow a minimum of 36 in. (100 cm) clearance in front of equipment rack(s).
Avoid direct heating or air conditioning.	
AC power source outlets.	Locate equipment near sufficient outlets to provide power for test equipment and power tools.
Rack support.	Make certain rack supports are sufficiently rigid to support rack(s).
Building leakage.	Beware of dripping water onto equipment from leaky roofs, waveguide roof entries, and cold
	water pipe condensations.

Returning Product for Repair (or Credit)

A Return Material Authorization (RMA) Number is required on all products returned to Blonder Tongue, regardless if the product is being returned for repair or credit. Before returning product, please contact the Blonder Tongue Service Department at 1-800-523-6049, Ext. 4256 or visit our website: **www.blondertongue.com** for further information.