

# Blonder Tongue

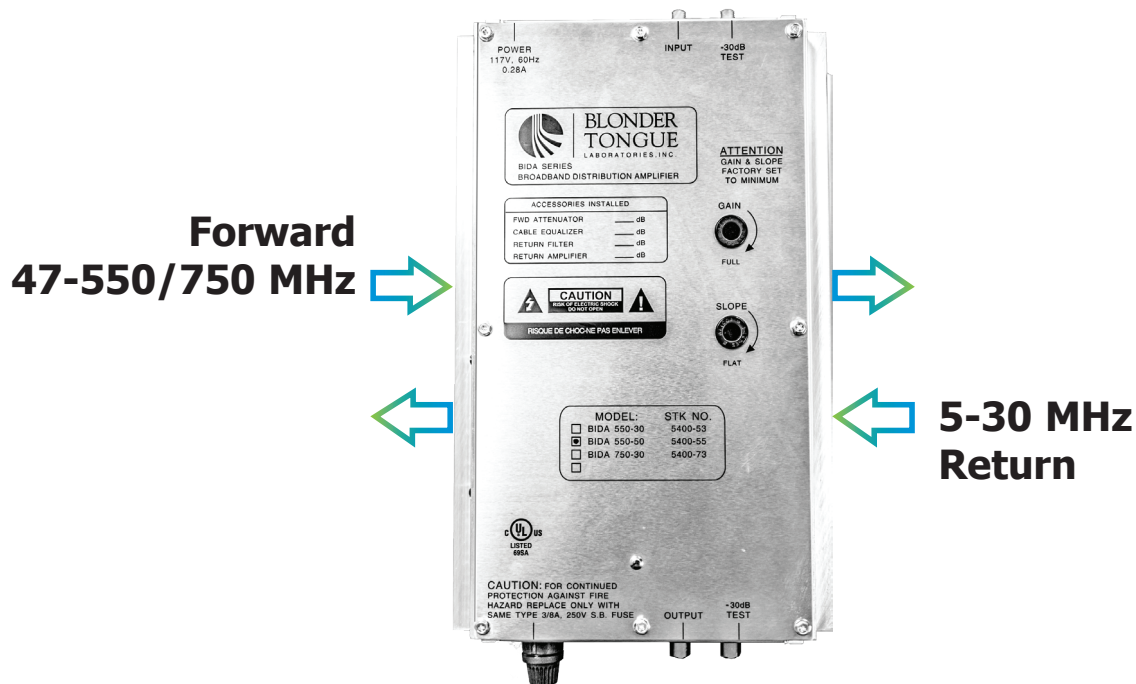
# BIDA 5400 Series

## Broadband Indoor Distribution Amplifiers

### SOLUTIONS FOR ALL YOUR APPLICATIONS

The **BIDA 5400 Series** are professional quality, broadband, two-way capable, indoor hybrid distribution amplifiers. These amplifiers are ideal for multi-channel RF distribution systems for which the input source is a "cable drop" or the output of a MATV/SMATV/CATV headend.

The **BIDA 5400 Series** is available in either 550 or 750 MHz bandwidths with push-pull hybrid technology. For two-way operation, optional field upgradable diplexers and return amplifiers are used to provide either an active or passive 5-30 MHz return. Passive return configurations require only the diplexers, whereas active return requires installation of both the diplexers and the amplifier.



## Features

- 5-30 MHz Return Capability
- Dual Push-pull Hybrid Amplifier Technology
- Easily Adjustable Front Panel Gain and Slope Controls
- Optional Plug-in Fixed Equalizer and Attenuator Capability for Input Signal Conditioning
- Input and Output Test Ports
- Large Heat Sinks for Exceptional Heat Dissipation

**Please see other side for ordering information.**

**Rev:** 082917 (651166900P)

# Specifications

Model: BIDA 5400 Stock No:	550-30 5400-53	550-50 5400-55	750-30 5400-73	54071		5402
Frequency Range:	47-550 MHz	47-550 MHz	47-750 MHz	Low 5-30	High 47-800	5-30
Gain:	33 dB	50 dB	31 dB	-0.50	-0.50	24
Flatness:	±0.75 dB	±0.75 dB	±1 dB	Low ±0.25 dB	High ±0.25 dB	±0.50 dB
Gain Control Range:	15			-		≥12
Slope Control Range:	10					≥12
Input Return Loss:	14 dB	14 dB	13	21	16	16
Output Return Loss:	14 dB	14 dB	13	21	16	16
Noise Figure:	7.0	7.0	9.0	-		6.0
No. of Channels (for CSO, CTB, & XMD):	77	77	110	-		3
Output Level:	36/44 dBmV	36/44 dBmV	36/44 dBmV			+42
Composite Triple Beat (CTB):	-64	-64	-60	-		-60
Crossmodulation (XMOD):	-64	-64	-61	-		-60
2nd Order Composite (CSO):	-64	-64	-61	-		-72
Impedance:	75 Ω			-		-
Hum Modulation:	-70 dB			-		-65
Input/Output Test Port Level:	-30 dB; ±2 dB			-		-
Input/Output Test Port Return Loss:	20 dB					
Operating Temperature Range:	-20 to +60 °C					
Power Requirements:	117, -130 VAC, 60 Hz		0.38 AMP Max		+24 VDC @ 60mA	
Dimensions (LxWxH):	7.13" x 11.50" x 2.68" (181 cm x 292 cm x 68 cm)				4.75" x 1.375" x 2.25"	
Shipping Weight:	5.75 lb. (2.61 kg)				3 oz.	
Plug-In Accessories:						
1) Flat Attenuator: (1-20 dB in 1dB steps)	#5411A-(*)					
2) Cable Equalizer: (3,6,9,12,15,18 dB)	#5475-(*)		#5477-(*)			

(\* ) Specify dB § Reference to +1 dB tilt

## Ordering Information

Model	Stock #	Description
BIDA 550-30	5400 53	Broadband Indoor Distribution Amplifier 30 dB, 47-550 MHz
BIDA 550-50	5400 55	Broadband Indoor Distribution Amplifier 50 dB, 47-550 MHz
BIDA 750-30	5400 73	Broadband Indoor Distribution Amplifier 30 dB, 47-750 MHz

## Accessories

Model	Stock #	Description
BIDA-RF	54071	BIDA Series Plug-In Return Filter, 5-30 MHz <b>NOTE:</b> For 5400 Series Amplifiers Only
BIDA-RA	5402	BIDA Series Amplifier, 5-30 MHz <b>NOTE:</b> For 5400 Series Amplifiers Only
BIDA-CE-5	5475	BIDA Series Plugin-Cable Equalizer 550 MHz, Values: 3,6,9,12,15,18 dB
BIDA-CE-7	5477	BIDA Series Plugin-Cable Equalizer 750 MHz, Values: 3,6,9,12,15,18 dB
BIDA-FA	5411A	BIDA Series Plug-In Fixed Attenuator 1000 MHz, Values: 1-20 dB