



**Blonder  
Tongue**

# BIDA 5800 Series

**Two-Way Broadband Distribution  
Amplifiers w/ Active Return Path**

## SOLUTIONS FOR ALL YOUR APPLICATIONS

The **BIDA 5800 Series** with Active Return Path is a completely self-contained broadband indoor distribution amplifier designed for CATV and SMATV signal distribution systems that use a cable drop as a signal source.

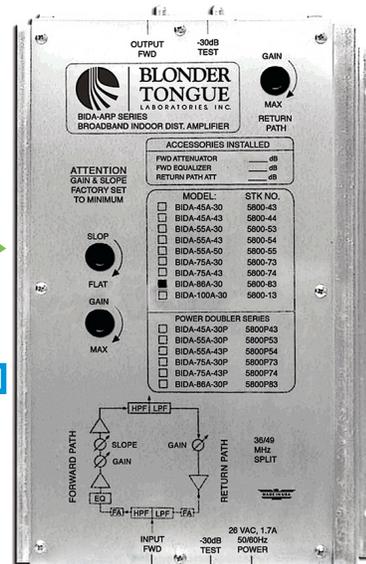
Push-pull and power-doubling hybrid amplifier technologies are available for the BIDA 5800 Series with RF bandwidths ranging from 49-550 up to 1000 MHz with 30 or 43 dB gains.

All BIDA 5800 models have a return path bandwidth of 5-36 MHz and can be configured for either a passive (factory default) or integrated active return. When field configured to an active return, the BIDA 5800 Series have a full gain of 20 dB. All models can be attenuated over a range of 10 dB in the forward path and 18 dB in the return path. Gain and slope controls are located on the front panel for easy set-up and adjustment. Two -30 dB back-matched test points are provided to permit testing without interruption of service.

The aluminum chassis is designed to provide excellent heat dissipation thus allowing operation at high ambient temperatures with no degradation of performance or reliability.

**Forward**

**49-550/750/860/1000 MHz**



**5-36 MHz  
Return**

### Features

- Provides Two-Way Capability with an Passive or Active Return Path Set by Field-Changeable Jumpers
- Easily Adjustable Front Panel Gain and Slope Controls
- Hybrid IC Circuitry for High Output with Low Distortion
- Optional Plug-in Fixed Equalizer and Attenuator Capability for Input Signal Conditioning
- Integrated Return Path Configurable for either Passive or Active Operation
- Push-pull and Powering-doubling Hybrid Models Available
- Input and Output Test Ports
- Large Heat Sinks for Exceptional Heat Dissipation

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

**Rev:** 011618 (651187000P)

# Specifications

<b>Model: BIDA-5800</b> <b>Stock No:</b>	55A-30 5800 53	75A-43 5800 74	86A-30 5800 83	86A-30P 5800P83	86A-43 5800 84	86A-43P 5800P84	100A-30 5800 13	100A-30P 5800P13	100A-43 5800 14	100A-43P 5800P14	Integrated Active Return Path	
<b>Frequency Range:</b>	49-550 MHz	49-750 MHz	49-860 MHz				49-1000 MHz				5-36	
<b>Gain:</b>	30 dB	43 dB	30 dB	43 dB		30 dB		43 dB		20 (Passive -1.5)		
<b>Flatness:</b>	±0.50 dB	±0.70 dB	±0.75 dB									±0.5§
<b>Gain Control Range:</b>	10 dB										18	
<b>Slope Control Range:</b>	8 dB										N/A	
<b>Input Return Loss:</b>	16 dB										16	
<b>Output Return Loss:</b>	16 dB										16	
<b>Noise Figure:</b>	7 dB	8.5 dB									6.0	
<b>No. of Channels (for CSO, CTB, &amp; XMD):</b>	77	110	129				150				3	
<b>Output Level:</b>	36/44 dBmV						32/40 dBmV				42	
<b>Composite Triple Beat (CTB):</b>	-64 dB	-56 dB	-54 dB	-62 dB	-56 dB	-60 dB	-59 dB	-70 dB	-65 dB	-70 dB	-60	
<b>Cross-modulation (XMOD):</b>	-67 dB	-60 dB	-54 dB	-62 dB	-60 dB	-65 dB	-60 dB	-66 dB	-58 dB	-66 dB	-60	
<b>2nd Order Composite (CSO):</b>	-61 dB	-59 dB	-57 dB	-61 dB	-59 dB	-59 dB	-59 dB	-69 dB	-63 dB	-69 dB	-60	
<b>Impedance:</b>	75 Ω											
<b>Hum Modulation:</b>	-70 dB											
<b>Input/Output Test Port Level:</b>	-30 dB; ±2 dB											
<b>Input/Output Test Port Return Loss:</b>	20 dB											
<b>Operating Temperature Range:</b>	-20 to +60 °C											
<b>Power Requirements:</b>	Wall Power Transformer						105-130 VAC, 60 Hz		0.38 AMP Max			
<b>Dimensions (LxWxH):</b>	10.5" x 7.25" x 3.25" (26.4 cm x 18.42 cm x 8.26 cm)											
<b>Shipping Weight:</b>	6 lbs (2.7kg)											
<b>Plug-In Accessories:</b>												
<b>1) Flat Attenuator:</b> (1-20 dB in 1 dB steps)	#5411A-(* )											
<b>2) Cable Equalizer:</b> (3,6,9,12,15,18 dB)	#5475-(* )	#5477-(* )	#5478-(* )				#5479-(* )					

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

## Ordering Information

Model	Stock #	Description
BIDA 55A-30	5800 53	Broadband Indoor Distribution Amplifier 30 dB, 49-550 MHz, Push-Pull, Active Return (5-36 MHz)
BIDA 75A-43	5800 74	Broadband Indoor Distribution Amplifier 43 dB, 49-750 MHz, Push-Pull, Active Return (5-36 MHz)
BIDA 86A-30	5800 83	Broadband Indoor Distribution Amplifier 30 dB, 49-860 MHz, Push-Pull, Active Return (5-36 MHz)
BIDA 86A-30P	5800P83	Broadband Indoor Distribution Amplifier 30 dB, 49-860 MHz, Power-Doubling, Active Return (5-36 MHz)
BIDA 86A-43	5800 84	Broadband Indoor Distribution Amplifier 43 dB, 49-860 MHz, Push-Pull, Active Return (5-36 MHz)
BIDA 86A-43P	5800P84	Broadband Indoor Distribution Amplifier 43 dB, 49-860 MHz, Power-Doubling, Active Return (5-36 MHz)
BIDA 100A-30	5800 13	Broadband Indoor Distribution Amplifier 30 dB, 49-1000 MHz, Push-Pull, Active Return (5-36 MHz)
BIDA 100A-30P	5800P13	Broadband Indoor Distribution Amplifier 30 dB, 49-1000 MHz, Power-Doubling, Active Return (5-36 MHz)
BIDA 100A-43	5800 14	Broadband Indoor Distribution Amplifier 43 dB, 49-1000 MHz, Push-Pull, Active Return (5-36 MHz)
BIDA 100A-43P	5800P14	Broadband Indoor Distribution Amplifier 43 dB, 49-1000 MHz, Power-Doubling, Active Return (5-36 MHz)

## Accessories

Model	Stock #	Description
BIDA-CE-5	5475	BIDA Series Plug-In Cable Equalizer 550 MHz, Values: 3,6,9,12,15,18 dB
BIDA-CE-7	5477	BIDA Series Plug-In Cable Equalizer 750 MHz, Values: 3,6,9,12,15,18 dB
BIDA-CE-8	5478	BIDA Series Plug-In Cable Equalizer 860 MHz, Values: 3,6,9,12,15,18 dB
BIDA-CE-10	5479	BIDA Series Plug-In Cable Equalizer 1000 MHz, Values: 3,6,9,12,15,18 dB
BIDA-FA	5411A	BIDA Series Plug-In Fixed Attenuator 1000 MHz, Values: 1-20 dB