

BIDA 5800 & 5900 Series

Two-way Broadband Distribution Amplifier



○ Features & Benefits

- Interstage Variable Gain and Slope Controls
- Optional Plug-in Fixed Equalizer and Attenuator Capability For Input Signal Conditioning
- UL Listed External Transformer
- 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

The BIDA 5800 and 5900 Series are professional quality, two-way broadband indoor 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 5800 Series features models having RF bandwidths of 550,750, 860 and 1000 MHz. The BIDA 5900 Series is available in 860 MHz bandwidth. Push-pull and power-doubling hybrid amplifier technologies are available on the two series. Both the BIDA 5800 and 5900 series are factory equipped for 2-way operation. The 5800 series has a 36/49 MHz split where the 5900 series has a 42/54 MHz (reverse/forward) split. Both series leave the factory set for passive return path operation. Active return path operation can easily be accomplished by reconfiguring a few internal jumpers.

The BIDA 5800/5900 Series utilizes an external power transformer providing 26 VAC to the amplifier. This enables the amplifiers to be remotely powered via low voltage AC wiring should a 120 VAC electrical outlet not be in close proximity to the desired amplifier location.

○ Common Specifications

Gain Control Range: 10 dB	Weight: 6 lbs. 2.7 kg
Slope Control Range: 8 dB	Power Requirements: 117VAC, 60Hz Power
Hum Modulation: 70 dB	
Impedance - All Ports : 75 Ohm	
Return Loss	
Input: 16 dB	
Output: 16 dB	
Size (LxWxH):	
7.25 x 3.25 x 10.25 in.	
18.42 x 8.26 x 26.04 cm	

Notes

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

BIDA Series

○ Specifications - Continued

RF	BIDA 75A-30	BIDA 75A-30P	BIDA 75A-43	BIDA 75A-43P	BIDA 86A/B-30 5800 / 5900	BIDA 86A/B-30P 5800 / 5900	BIDA 86A/B-43 5800 / 5900	BIDA 86A/B-43P 5800 / 5900	BIDA 100A-30
Frequency Range (MHz):	49-750	49-750	49-750	49-750	47/54-860	47/54-860	47/54-860	47/54-860	49-1000
Channel Loading:	110	110	110	110	129	129	129	129	150
Flatness (dB):	±0.7	±0.7	±0.7	±0.7	±0.75	±0.75	±0.7	±0.7	±0.75
Hybrid Technology (dB):	Push-Pull	Power Doubling	Push-Pull	Power Doubling	Push-Pull	Power Doubling	Push-Pull	Power Doubling	Push-Pull
Gain (dB):	43	43	50	32	32	32	43	43	32
Noise Figure (dB) (a):	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
Output Level (dBmV):	36/44	36/44	36/44	36/44	36/44	36/44	34/42	36/44	32/40
Test Port Level: Input/Output (dB):	-30, ±2	-30, ±2	-30, ±2	-30, ±2	-30, ±2	-30, ±2	-30, ±2	-30, ±2	-30, ±2
Composite Triple Beat - CTB (dB) (b):	-60	-64	-56	-64	-54	-62	-56	-60	-59
Cross Modulation - XMOD (dB) (b):	-62	-68	-60	-68	-54	-62	-60	-65	-60
Composite Second Order - CSO (dB) (b):	-56	-61	-59	-61	-57	-61	-59	-59	-59

Notes

(a) Measured at full gain with 8 dB slope

(b) At rated output capability and channel loading

(c) Power Consumption varies by model. Range for all models provided.

○ Ordering Information

Model	Description
BIDA 550-30	Broadband Indoor Distribution Amplifier 30 dB, 47-550 MHz
BIDA 550-50	Broadband Indoor Distribution Amplifier 50 dB, 47-550 MHz
BIDA 750-30	Broadband Indoor Distribution Amplifier 30 dB, 47-750 MHz
BIDA 55A-30	Broadband Indoor Distribution Amplifier 30 dB, 49-550 MHz, Integrated Active Return (5-36 MHz)
BIDA 55A-30P	Broadband Indoor Distribution Amplifier 30 dB, 49-550 MHz, Integrated Active Return (5-36 MHz)
BIDA 55A-43	Broadband Indoor Distribution Amplifier 43 dB, 49-550 MHz, Integrated Active Return (5-36 MHz)
BIDA 55A-43P	Broadband Indoor Distribution Amplifier 43 dB, 49-550 MHz, Integrated Active Return (5-36 MHz),
BIDA 55A-50	Broadband Indoor Distribution Amplifier 50 dB, 49-550 MHz, Integrated Active Return (5-36 MHz)
BIDA 75A-30	Broadband Indoor Distribution Amplifier 30 dB, 49-750 MHz, Integrated Active Return (5-36MHz)
BIDA 75A-30P	Broadband Indoor Distribution Amplifier 30 dB, 49-750 MHz, Integrated Active Return (5-36MHz)
BIDA 75A-43	Broadband Indoor Distribution Amplifier 44 dB, 49-750 MHz, Integrated Active Return (5-36MHz)
BIDA 75A-43P	Broadband Indoor Distribution Amplifier 43 dB, 49-750 MHz, Integrated Active Return (5-36MHz)
BIDA 86A-30	Broadband Indoor Distribution Amplifier 30 dB, 49-860 MHz, Integrated Active Return (5-36MHz)
BIDA 86A-30P	Broadband Indoor Distribution Amplifier 30 dB, 49-860 MHz, Integrated Active Return (5-36MHz)
BIDA 86A-43	Broadband Indoor Distribution Amplifier 44 dB, 49-860 MHz, Integrated Active Return (5-36MHz)
BIDA 86A-43P	Broadband Indoor Distribution Amplifier 44 dB, 49-860 MHz, Integrated Active Return (5-36MHz)
BIDA 86B-30	Broadband Indoor Distribution Amplifier 30 dB, 54-860 MHz, Integrated Active Return (5-42MHz)
BIDA 86B-30P	Broadband Indoor Distribution Amplifier 30 dB, 54-860 MHz, Integrated Active Return (5-42MHz)
BIDA 86B-43	Broadband Indoor Distribution Amplifier 44 dB, 54-860 MHz, Integrated Active Return (5-42MHz)
BIDA 86B-43P	Broadband Indoor Distribution Amplifier 44 dB, 54-860 MHz, Integrated Active Return (5-42MHz)
BIDA 100A-30	Broadband Indoor Distribution Amplifier 30 dB, 49-1000 MHz, Integrated Active Return (5-36MHz)

Accessories

BIDA-CE-5	BIDA Series Plug-In Cable Equalizer 550 MHz, Values: 3, 6, 9, 12, 15, 18 dB
BIDA-CE-7	BIDA Series Plug-In Cable Equalizer 750 MHz, Values: 3, 6, 9, 12, 15, 18 dB
BIDA-CE-8	BIDA Series Plug-In Cable Equalizer 860 MHz, Values: 3, 6, 9, 12, 15, 18 dB
BIDA-CE-9	BIDA Series Plug-In Cable Equalizer 1000 MHz, Values: 3, 6, 9, 12, 15, 18 dB
BIDA-FA	BIDA Series Plug-In Fixed Attenuator, 1000 MHz, Values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 dB
BIDA-RA	BIDA Series Plug-In Return Amplifier 5-30 MHz
BIDA-RF	BIDA Series Plug-In Return Filter, 5-30 MHz NOTE: For 5400 Series Amplifiers Only