

# Toner

## TDA Series

### CATV Distribution Amplifier

**Toner**  
cable equipment, inc.  
www.tonercable.com

#### Features:

- 1 GHz forward bandwidth
- GaAs-Fet push pull for high output levels with low distortion
- Active push pull reverse
- Gain and equalization controls
- RFI housing
- Diecast aluminum housing for heat dissipation
- UL and CE listed power transformers
- 117 or 230 volt

#### Available In:

- 5-42 MHz Reverse
- 5-65 MHz Reverse

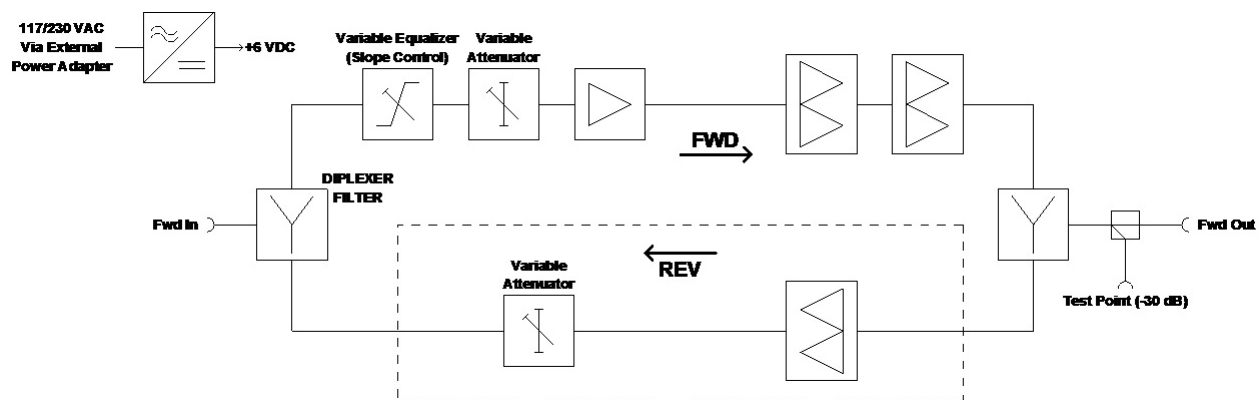


The Toner two-way apartment house type amplifiers with active return are broadband indoor GaAs-Fet / Push Pull distribution amplifiers designed for 1 GHz RF distribution systems such as those in Cable Television Apartments, Hotels, Hospitals and other applications where a high quality, low noise figure amplifier is necessary to amplify the signals in both the forward and return paths.

Two models are available with two different reverse signal bandwidths 5-42 MHz and 5-65 MHz.

These are all designed with flat operational gain of 35 dB in the forward bandwidth and 18 dB in the reverse bandwidth. They have an input equalizer in the forward bandwidth for balancing, a forward 20 dB gain control and a 20 dB reverse gain control.

The amplifiers are powered by a plug in wall type 6 VDC power transformer that is available in either 117 or 230 volt. Internal power supply models are also available with item codes as TDA35-1000/65/IP.



**CATV Distribution Amplifier**

**Specifications**

Model	Bandwidths
TDA35-1000/42	5-42 MHz / 54-1000 MHz
TDA35-1000/65	5-65 MHz / 80-1000 MHz

Model	Forward GaAs-FET Push Pull	Reverse
Frequency Range	54-1000 MHz	5-42 MHz
Gain	35 dB	18 dB
Flatness	±1 dB	±1 dB
Return Loss IN/OUT	-16 dB	-16 dB
RF Test Points	-30 dB (Out)	--
Gain Control, Variable	-20 dB (Input)	-20 dB (Output)
Slope Control, Variable IN	-20 dB	-20 dB
Performance		
79 Channels @ 34/46 dBmV Output:		
CTB	-63 dBc	--
CSO	-70 dBc	--
XMOD	-62 dBc	--
135 Channels @ 34/46 dBmV Output:		
CTB	-61 dBc	--
CSO	-67 dBc	--
XMOD	-60 dBc	--
Reverse Distortion		
4 channels (52 dBmV Flat Output):		
3rd on T10	--	-68 dBc
2nd on T9	--	-65 dBc
Xmod on T10	--	-64 dBc
Noise Figure	7 dB	7 dB
Hum Modulation		
		-70 dB
RFI Isolation		
		-90 dB
Surge Withstand, IN/OUT		
	IEEE62.41 Cat.A3 (6kV, 200A)	
Powering		
	Plug-In Wall Type External Power Supply (+6VDC-1A), available in 117/230 VAC	
Power Consumption		
	@117 VAC 0.095A, @220 VAC 0.045A	
Temperature		
	-10° to +55°C	
Enclosure		
	IP54 Category, Diecast Aluminum	
Weight		
	3.75 lbs / 1.7 kgs	
Dimensions		
	7 5/8" x 5 3/8" x 3" / 19.5 x 13.6 x 7.5 cm	