



Model	Bandwidths
<b>TDA35-862/42</b>	5-42 MHz / 54-862 MHz
<b>TDA35-862/55</b>	5-55 MHz / 70-862 MHz
<b>TDA35-862/65</b>	5-65 MHz / 80-862 MHz

(\*) Internal Power Supply models are also available with .....IP codes.

The Toner two way apartment house type amplifiers with active return are broadband indoor GaAs-Fet / PushPull distribution amplifiers designed for 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.

Three models are available with three different reverse signal bandwidths for the three basic worldwide subsplit standards, 5-42 MHz, 5-55 MHz, 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 TDA35-862/65IP etc.

**FEATURES**

- GaAs-Fet Push Pull for high output levels with low distortions
- Active Reverse
- Gain and equalization controls
- RFI housing
- Diecast aluminum housing for heat dissipation
- UL and CE listed power transformers
- 117 or 230 volt power supply



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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.



## CAUTION

**Risk of Electric Shock  
Do Not Open**



The Lightning flash with arrowhead symbol within an equilateral triangle is intended to alert you to the presence of uninsulated "dangerous voltage" within the products supplementary external power supply enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.

**REMEMBER TO REPLACE COVER AFTER ADJUSTING  
COVER MUST BE IN PLACE FOR CE, SAFETY AND PROTECTION**

**NO SERVICEABLE PARTS INSIDE. REFER SERVICING TO  
QUALIFIED SERVICE PERSONNEL.**

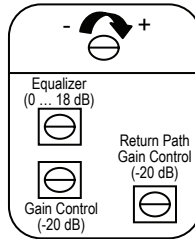
**WARNING: TO PREVENT SHOCK HAZARD, DO NOT EXPOSE THIS  
UNIT TO RAIN OR MOISTURE**

### NOTE TO CATV SYSTEM INSTALLER

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.

### 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.
3. Adjustable gain & cable slope controls are reachable under the cover. Refer to layout scheme for adjustable controls.



## SPECIFICATIONS (Typical)

Type	TDA-35-862/42	TDA-35-862/55	TDA-35-862/65
<b>Technology</b>	GaAs-FET Technology – Ultra High Power		
<b>Forward Path</b>			
Frequency Range	54-862 MHz	70-862 MHz	80-862 MHz
Gain	35 dB	35 dB	35 dB
Gain Control	-20 dB	-20 dB	-20 dB
Cable Slope Control	0-18 dB	0-18 dB	0-18 dB
Return Loss	-16 dB	-16 dB	-16 dB
Output Level @ 129 Channels	46 dBmV		
CSO (2 <sup>nd</sup> Order Modulation)	-60 dB		
CTB (Composite Triple Beat)	-52 dB		
Cross Modulation	-55 dB		
Output Level (-60 dB DIN45004B)	123 dBuV		
CSO (-60 dB, 42 Channels EN50083-3)	114 dBuV		
CTB (-60 dB, 42 Channels EN50083-3)	108 dBuV		
Hum Modulation	-60 dB		
Noise Figure	6.5 dB		
<b>Return Path</b>			
Frequency Range	5-42 MHz	5-55 MHz	5-65 MHz
Gain	18 dB	18 dB	18 dB
Gain Control	-20 dB	-20 dB	-20 dB
Return Loss	-16 dB	-16 dB	-16 dB
Power Supply Requirements	with Plug-in Wall Type External Power Supply (+6 VDC-1A), available in 117/230 V		
@117 VAC, 60 Hz (with Power Transformer)	0.095 A		
@230 VAC, 50 Hz (with Power Transformer)	0.045 A		
RF Shielding	>= 90 dB		
Operating Temperature Range	-10°C to +55°C / 15°F to 130°F		
Dimensions	19.5 x 13.6 x 7.5 cm / 7-5/8 x 5 3/8 x 3"		
Shipping Weight (including Power Supply)	1.7 kgs / 3.75 lbs		

### INSTALLATION PRECAUTIONS TABLE

PRECAUTIONS	REQUIREMENT
Ensure easy access to rack wiring	Allow a minimum of 20in.(50cm) clearance behind the equipment rack(s).
Facilitate service and maintenance	Allow a minimum of 35in.(90cm) clearance in front of the equipment rack(s).
Avoid direct heating or air conditioning	If unavoidable, use deflector plates.
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.