# Model TA-25-RP-4 (5-40, 50-870 MHz) Bi-directional Cable TV Distribution Amplifier

## **Product Description**

The TA-25-RP-4 is a high-performance TV amplifier with four outlets. It is designed for residential and small system cable TV signal distribution. It provides higher quality signal and greater signal strength for multiple outlets, long cable runs and large screen televisions (See Figures 1 & 2).

### Features:

Easy to install; includes adjustable and precise level control to optimize input signal level.

Internal RF splitter provides up to 4 high level outputs (minimum +18 dBmV) for long (200+ ft) cable runs or further signal splitting.

State-of-the-art GaAs p-HEMT SMD amplifier ICs

High gain and low noise will optimize big screen picture quality

Digital cable ready (bi-directional) - possible to connect Cable Modems, Set Top Box, Pay TV Decoders

HDTV antenna distribution models also available

Powered with UL-approved AC power adapter

Full technical support and two-year warranty



Figure 1: TA-25-RP-4

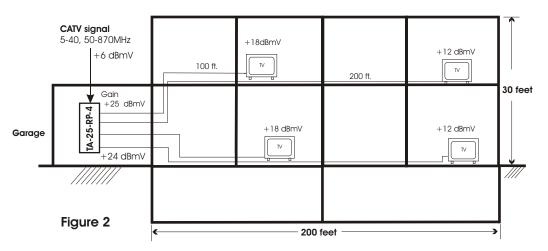
# **Product Specifications**

Frequency Range (Mhz)	5-40, 50-870	Return Filter Thru loss	1 dB
Power Gain (dB)	25	Cross Modulation	110 chs; Vo=+25dBmV, -80dB
Gain Flatness(dB)	±1.0	Composite Triple Beat (dB)	110 chs flat, V=+25dBmV, -65dB
Noise Figure (dB)	2 dB	Composite 2nd order	110 chs flat, V=+25dBmV, -60dB
Input Return Loss(dB)	12	Connectors, Impedance	F-female, 75 ohms
Output Return Loss(dB)	10	Dimensions (LxWxH)	7.5" x 4" x 2" (192x102x50 mm)
Number of outputs	4	Weight (lbs)	3
Signal level at outputs	+18 dBmV (0dBmV input)	Operating Temperature	-15 to +90 C
Maximum in/out levels	+8 dBmV / +26 dBmV	Power Requirements	18V DC, 250 mA
Return Filter Isolation	55 dB min	Power AC Adapter	Included

# **Example Application**

TA-25-RP-4 amplifier for CATV signal distribution in a residential or small building system.

Figure 2 shows typical signal levels (at 750 MHz) at the amplifier input, outputs and, after cable loss (RG-6), to each TV.



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## **Installation Notes and Warranty Information:**

- 1) Unpack the TA-25-RP-4 distribution amplifier and DC power supply.
- **2)** Locate the TA-25-RP-4 in a dry area, near AC power outlet. The TA-25-RP-4 has 4 mounting holes for wall mounting.
- **3)** Before applying power to the amplifier, turn the **Input Level Control,** fully *Counterclockwise* the input signal level is reduced by -20dB.
- **4)** Connect the input CATV signal and output distribution cables to the amplifier. Terminate unused amplifier output ports.
- 5) Connect AC to Wall outlet, and, plug DC to Amplifier power jack
- **5)** Adjust the **Input Level** by turning **Level Control** Clockwise and stop when the picture quality at TV sets and set top boxes are received clearly.



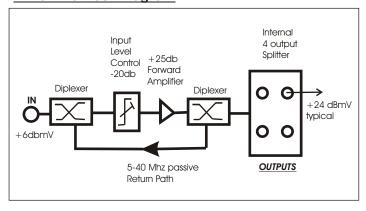
## **Important Safety Precautions**

To avoid electrical shock, do not take apart this unit

Do not overload the wall outlets or extension cords. This could result in the risk of fire or electrical shock

This amplifier should be used only with the power supply included

## TA-25-RP-8 Block Diagram



# Warranty:

**Tin Lee Electronics (TLE)** products are guaranteed for TWO YEARS from the date on the original invoice (includes parts & labour ). All Products are guaranteed to perform to our specifications under intended operation. Warranties do not cover misuse, improper installation, abuse, tampering, or Act of God damage.

#### To obtain warranty service:

- 1) Retain invoice or original proof of purchase to establish the start of the warranty period.
- 2) Notify TLE as soon as possible if defect or problem found
- 3) The product can be shipped back to TLE prepaid after it has been agreed by TLE that the product is defective.
- **4)** All tampering, modifications, or unauthorized repairs will void product warranty.

#### For Service Information contact:

### **Service Department**

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