



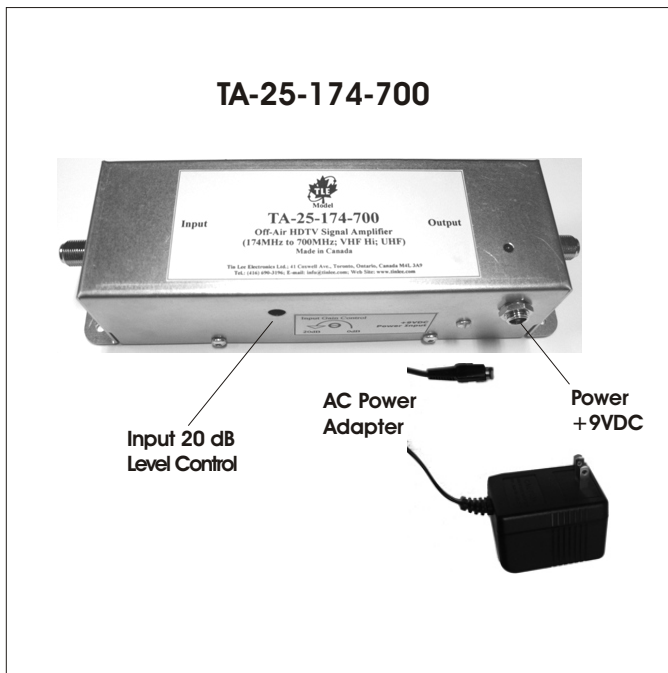
Model TA-16-174-700 and TA-25-174-700 Residential and Small System Off-Air HDTV Signal Distribution Amplifiers

Description

Models TA-16-174-700 and TA-25-174-700 are low noise VHF Hi thru UHF TV distribution amplifiers. They are designed for residential and small system Off-Air HDTV signals. They provide +15, or 25 dB gain from 174 to 700 Mhz, and, rejection of out-of-band signals. The output signal is sufficient for 4 to 24 outlets (see figure 1, example of 16-way TV distribution system).

Features:

- State-of-the-art GaAs p-HEMT SMD amplifier IC
- Low noise (1.5dB) and high input/output capability
- Low loss filters to pass VHF HI thru UHF bands, and, high rejection of CB, FM, and, communications bands above 750 Mhz
- Model TA-25-174-700 includes adjustable 20 dB Input level control
- RF Shielded Metal Enclosure
- Powered with UL approved AC power adapter
- Full technical support and two-year warranty



Specifications

Frequency Range (Mhz)	174-700	Connectors, Impedance	F-female, 75 ohms
Power Gain (dB)	15 or 25	Dimensions (LxWxH)	7.0" x 2.0" x 1.75"
Gain Flatness(dB)	±1.0	Weight (lbs)	0.75
Noise Figure (dB)	1.5 dB	Operating Temperature	-15 to+90 C
Input Return Loss(dB)	12	Power Requirements	5V DC, 80mA (TA-16) 150 mA(TA-25)
Output Return Loss(dB)	10	Power AC Adapter	9V DC Adapter is Included
Minimum Input Level	-15 dBmV		
Maximum Input Level	+20 dBmV (30 channels)		

Example Application

Figure 2, shows HDTV show room distribution system with 16 outlets.

Figure 2 shows the approximate signal levels(700 Mhz) at amplifier input, output, 16-way splitter outputs, and at each TV after cable losses (cable length, RG-6, 50 to 100 feet).

