

# ADT820 Bi-directional Trunk Amplifier



## 1.0 Products Description

ADT820 Bi-directional Trunk Amplifier is special designed for satisfy the requirements of CATV HFC web structure expansion to the interactive service area .Its obverse is double module magnify, and its reverse is single module magnify, downlink bandwidth from 750MHz or 860MHz, and its uplink can be adjusted according to the subscriber's practical condition .In order to adapt the network upgrade and regeneration in the future ,it adopts module structure each unit relatively independent ,and can be inserted ,pulled and replaced agility.Then the subscribers can pertinently choose them with the web's practicality.

## 2.0 Features

- 860MHz、750MHz wide ,can satisfy the transmission of simulate and digital signal;
- Has bilateral function ,make the web much more consummate;
- High target ,standard bilateral filter ,USE and interchange very conveniently;
- Supply various division ways;
- Supply reverse magnify and obligate.

## 3.0 Technology Parameter

Item	Unit	Obverse Parameter	Reverse Parameter
Work Frequency	MHz	47 ~ 750/860(87 ~ 750/860)	5 ~ 35(5 ~ 65)
Operating Gain	dB	26 ~ 30	15 ~ 21
Gain adjust range	dB	Fixed 1357.....	Fixed 1357.....
Flatness In Band	dB	±0.5	±0.5
Input Level	dBμV	>72	>75
Output Level	dBμV	98 102	90 96
Noise Figure	dB	≅ 8	≅ 8
CSO	dB	70 66	

CTB	dB	75 67	
Return Loss	dB	$\geq 16$	
Carrier Hum Ratio	dB	$\geq 66$	
Shock Resist Voltage	KV	5(10/700 $\mu$ S)	
Power Voltage	V	AC60/AC220(50Hz)	

#### 4.0 Functional Block Diagram

