

## Features

- ◇ PHILIPS amplifier module
- ◇ High gain, high output level and low non-linear
- ◇ Variable attenuator(0~15dB) and equalizer(0~18dB) in forward path
- ◇ 2 outputs with plug-in splitter or 1-tap
- ◇ Different frequency split is specified by clients
- ◇ Local and remote powering available
- ◇ Weatherproof and RF-screened die-cast housing



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## Description

Indoor 2000 CATV amplifier two-way output (bi-directional) amplifier, suitable for the signal amplification of coaxial in HFC system. It has the feature of high gain, high output level, and excellent CTB, CSO. Its return loss is 16 dB and the frequency of its four bi-directional filters is optional. The default configuration is two-way output, and can become three-way output by inserting distributor or fixed coupler.

## Parameter

Item	Specification
<b>Forward path</b>	
Frequency range	47/87-862 MHz
Gain	30 ± 1.0 dB
Flatness	± 1.0 dB
Gain adjustment	0~15 dB
Slope adjustment	0~18 dB
Rated input level	72 dBuV
Rated output level	102 dBuV
Noise figure	≤10 dB
C/CTB	≥58 dB
C/CSO	≥56 dB
Group delay	≤10 ns (112.25MHz/116.68MHz)
Hum mod.	< 2%
Return loss	≥14 dB
<b>Return path</b>	
Frequency range	5-30/65 MHz
Gain	15 ± 1.0 dB

## 2000 CATV Amplifier

Flatness	$\pm 0.75$ dB
Gain adjustment	0~10 dB
Rated output level	110 dBuV
Noise figure	$\leq 12$ dB
CSO	$\geq 52$ dB
Group delay	$\leq 20$ ns (57MHz/59MHz)
Hum mod.	$< 2\%$
Return loss	$\geq 16$ dB
Impedance	75 $\Omega$
Power remote/local	AC15~60 / AC165~250 V
Power consumption	8 VA
Surge protection	$> 5$ KV
Operating temperature	-20~+50 $^{\circ}\text{C}$
Dimension	178x100x55 mm

### Applications

- ◇ HFC network