

General introduction

Overview

A cost-effective solution for extending HFC networks into high-density locations. The ZHA2-8630TW Broadband House.

Amplifier is designed for HFC network installations in apartment buildings, condominiums, and any multiple-dwelling housing units. This high-gain indoor distribution amplifier is available with a bandwidth of up to 860 MHz, and includes a power-doubled output amplification stage for improved system performance.



The single-output amplifier features variable gain and slope controls, as well as attenuator and equalizer facilities for greater flexibility when adjusting the amplifier. Both input and output ports are standard 5/8-24 entry ports for added flexibility. The ZHA2-8630TW ships standard with built-in diplex filters at its input and output. It includes an active return path for use in today's advanced networks.

The mains-powered BHA series features a built-in auto-ranging switching power supply. The power supply can accept input voltages from 100 to 240 V at frequencies of 50 or 60 Hz without adjustment. The amplifier is designed to be wall-mounted; however, external mounting brackets are included in the housing design for ease of installation.

ZHA2-8630TW Type Amplifier designed by our company are new types of one way CATV amplifier. They suit for HFC network with high-performance, reliability and low price.

After putting through 72dB V CATV signal level at the input port, you may use the field intensity instrument to measure the intensity, then adjust the attenuator P1 to make the output level reach 102dB V, which is the amplifier's rating signal level.

If the high-frequency signal is reduced in the course of transmitting, you may adjust the variable equalizer P2 to get a suitable equalization.

Item Forward	
Frequency range	54 to 870 MHz
Channel Loading	NTSC74CH(90-550MHz)+Digital 320MHz
Nominal RF Output	105dBuV (15dB down for Digital)
Nominal RF Input	70BuV (15dB down for Digital)
Nominal Gain	30dB
Flatness	0.075dB
CSO	62dBc
CTB	68dBc
Input/Output	14dB
RF Return Loss	14dB
Gain Stability	1dB
Output RF Test Port	20±1dB

Return Patch	
Frequency range	5-42MHz
Channel Loading	NTSC 2CH
Nominal RF Output	100dBuV
Nominal RF Input	80dBuV
Nominal Gain	20db
Flatness	0 0.75dB
Input/Output	14dB
RF Return Loss	14dB
Gain Stability	1dB
Output RF Test Port	20±1dB
Physical	
Operating Temperature	-10°C~40°C
Dimensions(HXWXD)	120X190X240mm
Weight	1.7kg
Power	
Power Source	AC100-240V (50/60Hz)
Power Consumption	15W
DC Voltage	24.0 0.5V

Usage of the machin

Adjusting the output level

After putting through 72dB V CATV signal level at the input port, you may use the field intensity instrument to measure the intensity, then adjust the attenuator P1 to make the output level reach 102dB V, which is the amplifier's rating signal level. If the high-frequency signal is reduced in the course of transmitting, you may adjust the variable equalizer P2 to get a suitable equalization.

Caution

- The machine box must be well grounded to avoid thunder shock or extraordinary high voltage damage.
- Don't change the different type of modules and transformer arbitrarily.
- The machine must be operated and maintained by special trained workman