General introduction

Overview

The ZHA7-8637TW 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.
ZHA7-8637TW CATV AMPLIFIER

The single-output amplifier features variable gain and slope controls, as well as attenuator and equalizer facilities for greater flexibility when adjusting theamplifier. Both input and output ports are standard5/8-24 entry ports for added flexibility.

The ZHA7-8637TW 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. ZHA7-8637TW Type Amplifier designed by our company are new types of one ways CATV amplifier.

They suit for HFC network with high-performance, reliability and low price.

After putting through 68dB V CATV signal level at the input port, you may use the field intensity instrument to measure the intensify, then adjust the attenuator P1 tomake the output level reach 105dB V, which is the amplifiers rating signal level. If the high-frequency signal reduced in the course of transmitting, you may adjust the variable equalizer P2 to get a suitable equalization.

Item Foward	
Frequency range	54 to 870 MHz
Channel Loading	NTSC74CH(90-550MHz) +Digital 320MHz
Nominal RF Output	105dBuV (15dB down for Digital)
Nominal RF Input	68BuV(15dB down for Digital)
Nominal Gain	37dB
Flatness	0 0.75dB
CTB	68dBc
CSO	62dBc
Input/Output - 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 - RF Return Loss	14dB
Gain Stability	1dB
Output RF Test Port	20±1dB

Power	
Power Source	AC100-240V (50/60Hz)
Power Consumption	15W
DC Voltage	24.0 0.5V

Usage of the machine
Adjusting the output level

After putting through 68dB V CATV signal level at the input port, you may use the field intensity instrument tomeasure the intensify, then adjust the attenuator P1 to make the output level reach 105dB V,, which is the amplifiers rating signal level. If the high-frequency signal 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 shockf 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.