

# WISI CATV DISTRIBUTION AMPLIFIER

## MODEL: WCA-5086



**Summary:** This type of Optical Node is based on the advanced experience of CATV HFC optical transmission. Mainly used in transmission of the long distance video, image, digital and audio signal.

### Product Information:

- **Operation Frequency Range: 40-860MHz.** Single Directional network transmission, dedicated for the indoor CATV using.
- Output Level: 120dBuV
- Gain: Typical **50dB**
- Gain Control: 0~20dB Continuously adjustable
- Tilt Control: 0~18dB Continuously adjustable
- Gain Flatness:  $\pm 2$ dB
- Noise Figure: <6dB
- Input and Output Impedance: 75 $\Omega$
- Input and Output Test Point: 20dB
- Connector: Input and Output Test Points (All F-Type)
- Power Supply: 220V Ac
- Power Consumption: 8W
- Operating Temperature: -10~50°C
- AC Fuse(Internal): 0.5 AMP
- **Package: 1 pcs in a small white box, and then a few in carton.** We can also pack according to customer requirement
- **Can produce based on customer's requirement.**

## Performance Characteristics:

- Adopt Philips, Photon and E-O Pin Optical Receiving IC, import Philips or Motorola power double amplify module (or depends on customers, adopt GaAs )
- Plug-in insert return reverse transmit parts, could develop the return access conveniently.
- Insert Dual-Filter, insert Fix-Equalizer, Fix Attenuator insert output splitter, eighth-order optical power indication, reasonable testing connector, make more convenient.
- Aluminum waterproof housing, high-capability power switch, anti-thunder system, make sure work properly outdoor.
- Work properly under low-optical power 9dBm. High performance to price ratio, be suitable for medium and small size CATV network.

Forward Performance Parameter				
Optical Parameter				
Receive Optical Power	dBm	-5 ~ +2		
Propose Use Range	dBm	-3 ~ +1		
Return Loss	dB	>45		
Optical Wavelength	nm	1100 ~ 1600		
Connector Type		FC/APC, SC/APC		
Fiber Type		Single Mode		
Circuit Performance				
C/N	dB	≥51	≥51	≥51
C/CBT	dB	≥69	≥67	≥65
C/CSO	dB	≥62	≥61	≥60
RF Output Performance				
Frequency Range	MHz	45/87~750/862		
Flatness in Band	dB	±0.5(45~550 MHz); ±0.75(550~750/862 MHz)		
Rated Output Level	dB μ V	≥94	≥92	≥90
Max Output Level	dB μ V	≥108	≥110	≥112
Input RETURN Loss	dB	≥16(45~550MHz); ≥14(550~750/862MHz)		
Output Impedance	Ω	75		
General Performance				
Supply Voltage	V	A: AC (135~250) V; B: AC(35~90) V		
Operating Temperature	°C	-40~60		
Storage Temperature	°C	-40~65		
Relative Humidity	%	Max 95% No Condensation		
Consumption	VA	≤ 40		
Dimension	mm	340 (L) X 220 (W) X 140 (H)		