

OLR-200B

FTTB Optical Receiver

I Products Descriptions

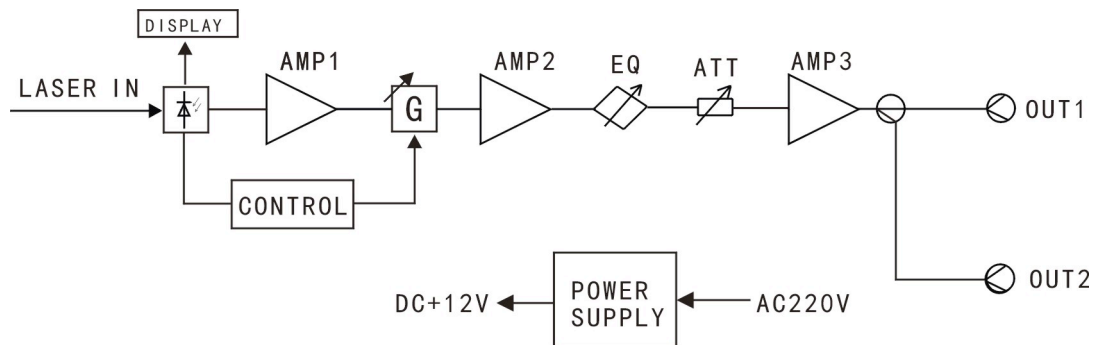
With the continuous development of cable TV optical fiber network and gradually expanded and improved network system, optical fiber transmission has been gradually extended from the original main line to each branch line, even each corridor and users, to realize the real FTTB (fiber to the building) and FTTH (fiber to the home), this product's research and development is to meet the needs of the current international and domestic market. The shell of this product is made of customized aluminum alloy profiles, the surface is treated by special passivation process, and the internal structure is optimized and combined, so that the volume of the whole machine is particularly small. In terms of the internal circuit, high-quality patch components are selected. The optical receiving part uses high-performance, high conversion rate tube core, with optical AGC function, so that the output level is more stable. The front part is allocated with low noise amplification, and the module with high index acts as the final stage amplification output. The whole machine has the characteristics of beautiful appearance, compact structure, easy to use, excellent electrical performance index, etc., is the first choice for the construction of large-scale optical fiber network equipment.

II Main Technical Parameters

Items	Unit	Index
Optical Index		
Optical Input Range	dBm	-12~+2
AGC Setting Range	dBm	-10~0
Optical Return Loss	dB	>45
Operating Wavelength	nm	1100~1600
Fiber Connector		FC/APC、SC/APC, Specified by user
Fiber Type		SM
Link Index		
CNR	dB	≥51
CTB	dB	≥65
CSO	dB	≥60

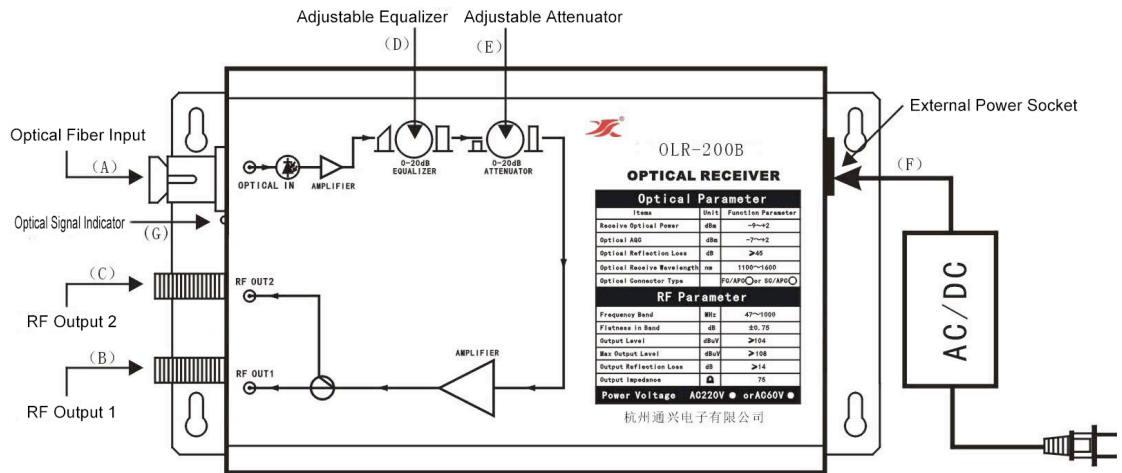
RF Index		
Operating Bandwidth	MHz	47~1000
Output Level	dB	±0.75
Standard output level	dBμV	≥103(double)
No. of Output Port		2(FZ110)
Max output level	dBμV	≥112
Return Loss	dB	≥16
Input Impedance	Ω	75
Electronically Controlled EQ Range	dB	0~20
Electronically Controlled ATT Range	dB	0~20
General Index		
Anti-thunder Voltage (10/700uV)	KV	5
Power Supply	VAC	60 or 220
Operating Temp	°C	-40~60
Storage Temp	°C	-50~70
Operating Relative Humidity	%	Max 95%
Power Consumption	W	≤8
Dimension	mm	165 (L) x 100(W) x 50(H)

III Diagram



IV Instructions

1. Structure Scheme



(A)—Optical Fiber Input

(B)—RF Output 1

(C)—RF Output 2

(D)—Adjustable Equalizer: Counterclockwise for increase and clockwise for decrease.

(E)—Adjustable Attenuator: Counterclockwise for increase and clockwise for decrease.

(F)—External Power Socket: DC 12V input.

(G)—Optical Signal Indicator: indicating the strength of the input optical signal.

2. Installation

(1) Clean the optical fiber head which carries a signal and matches the machine, with alcohol cotton, and then insert it into the azimuth port of the machine to ensure good contact.

(2) The DC voltage line is inserted into the external power socket of the machine, and the two-pin plug line is inserted into the AC 220V power socket.

(3) Observe the optical signal indicator light. Green indicates that the input optical signal is within the normal operating range. RED indicates that the input optical signal is too strong and needs to be attenuated before it can be accessed. Yellow indicates that the input optical signal is too weak or has no light signal. You need to check the cause further.

(4) Measure the level of RF OUT1 and RF OUT2 with the field intensity meter, and adjust the adjustable attenuator (E) and adjustable equalizer (D) until the output signal reaches the required level value.

V Notes

- 1.This machine is designed according to indoor structure. If it is used in the field, it must be put into the rainproof and moisture-proof box to work normally.
- 2.The power supply to the machine shall be stable, standard, and has lightning protection measures.

VI Repair

- 1.When it is found that the machine has no output signal, firstly,it should be checked whether the power supply is normal, whether the optical receiving power is within the normal range, and whether the cable connector of the output outlet is in good contact.
- 2.After a series of checks above, if everything is normal, but the cause of the fault has not found, there may be a problem in the internal circuit. In the absence of the consent of the factory, please do not open the case for maintenance, in case of safety accidents. You can consult the factory timely or send back the machine for maintenance.
- 3.The warranty period of our products is one year (except man-made or natural disasters). If the warranty period is exceeded, certain fees are required.