CATV+SAT-IF Optical Receiver User's Manual



Invisible infrared light is mostly used in optical communication system nowadays, thus it is absolutely forbidden to direct exposure to beam. Otherwise, it would cause damage to retina or cause blindness at worst.



Features:

- 1. Designed for FTTH(Fiber To The Home) networks
- 2. Wide operating frequency range, 47-2150 MHz
- 3. Excellent linearity and flatness
- 4. Wide range of optical input power
- 5. Single-mode fiber high return loss
- 6. Using GaAs amplifier active devices
- 7. Ultra low noise technology
- 8. Smaller size and easier installation
- 9. Red-LED for power indication
- 10. Double color LED for optical power indication (Non-lighted:optical power<-10dBm,Green:-10dBm <optical power<+3dBm,Red:optical power>+3dBm)
- 11.ORH-2020 is standard type, ORH-2020F is with built-in filter, ORH-2020A is with AGC function, ORH-2020AF is with built-in filter and AGC function

Specifications:

Item	Description	Remark
RF Connector	F-female	
Optical Connector	SC/APC	
Power Supply	F-female	
Responsivity	≥0.9A/W	Talk
Input Optical Power	-10∼+3dBm	
	-7∼+2dBm	- AGC
Optical Return Loss	≥45dB	
Receive Wavelength	1260~1600nm	ORH-2020/ORH-2020A
	1550±20nm	ORH-2020F/ORH-2020AF
Optical Fiber Type	Single Mode	
Frequency Range	47-2150MHz	
CATV Flatness	±0.75dB	
CATV Output Level	≥80dBμV	AGC
CNR	≥50dB	-1dBm input power
CSO	≥62dB	
СТВ	≥65dB	
Return Loss	≥14dB	
AGC Stability	±1dB	ORH-2020F/ORH-2020AF
Output Impedance	75Ω	
SAT-IF Flatness	±1.5dB	
SAT-IF Output Level	-40dBm	
Power Supply	12V	
Power Consumption	<2W	in the second second
Dimensions	75*63*17mm	

The Package Includes:

1. Optical receiver X 1-

2.12V DC Power Supply X 1-

3. User's Manual X1

