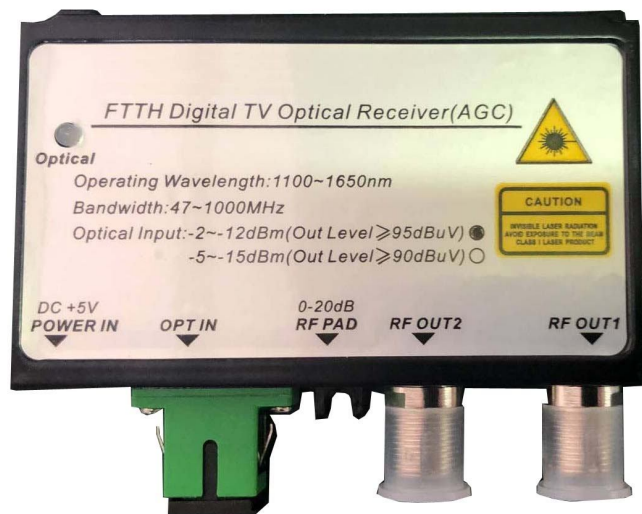


FTTX Optical Receiver

>>> PR-2190G FTTH AGC Optical receiver



Description

PR-2190G FTTH AGC Optical Receiver is designed for PON FTTH broadband analog or digital RF services. Working at low optical input power(-15~-5dBm), it still generates excellent broadband RF signals for home subscribers, Adjustable ATT and EQ which makes it very flexible for different network applications

Features

- 1) Designed for FTTH networks
- 2) Build-in AGC circuit, RF output level keeps same at -15dBm~-5dBm optic receiving power
- 3) Dual RF output ports, Main output and sub-output port with -20dB test point
- 4) Attractive exterior appearance
- 5) Adapts low noise GaAs MMIC amplifier
- 6) External power supply, easy to use
- 7) WDM is optional (OPR-2190G/WD), integrated WDM, and receiving wavelength: 1550±10nm, loop out the 1310/1490nm optical signal to connect with ONU equipment.

Technical parameters

Parameter	Unit	Value
Optical feature		
Input Optical Wavelength	nm	1550±10
PON Pass-through Wavelength	nm	1310nm/1490nm
Optical Isolation - Reflect	dB	40 @1310/1490nm
Optical Isolation - Pass	dB	25 @1550nm
Optical Input Power	dBm	-20~+2
AGC Range	dBm	-15~-5

Optical Return Loss	dB	≥45
Optical Fiber Type	--	SM
Connector Type	--	FC/APC or SC/APC
RF feature		
Frequency Range	MHz	47~1002
Flatness	dB	±0.75
Output Impedance	Ω	75
RF Return Loss	dB	≥16
RF Output Stability in AGC Range	dB	±1.0
RF Output Level	dBμV	90
Output Ports	--	1
CTB	dBc	60
CSO	dBc	60
C/N	dBc	51
Others		
Operating Voltage (External Power Supply)	VDC	5
Weight without Power Supply	kg	0.1
Power Consumption	W	1.8
Output Connector	--	F
Operating Temperature	°C	0~+40
Dimension(L*W*H)	mm	80*50*25
1. Testing condition: OMI=3.5%, optical input power @-1dBm, 98chs signal output, above 550MHz at -10dB offset.		

Block Diagram

