

SR201W WDM Optical Receiver



Description

SR201W is a mini in-door optical receiver with WDM that especially design for FTTP/FTTH application. High performance, low receiver optical power and lower cost is FTTH solution best selection for MSO. WDM integrated for 1550nm video signal and 1490nm /1310nm data signal in one fiber. Reflection 1490nm/1310nm for connecting ONT device. They are very suitable for PON and TV system

Features

- 1 GHz operating bandwidth
- Lower input optical range:-3~-18dBm
- output level is greater than 70dBuV (@-15dBm power input);
- wide optical power input range -18~-1dBm;
- Low power consumption<1.0W;

Block Diagram

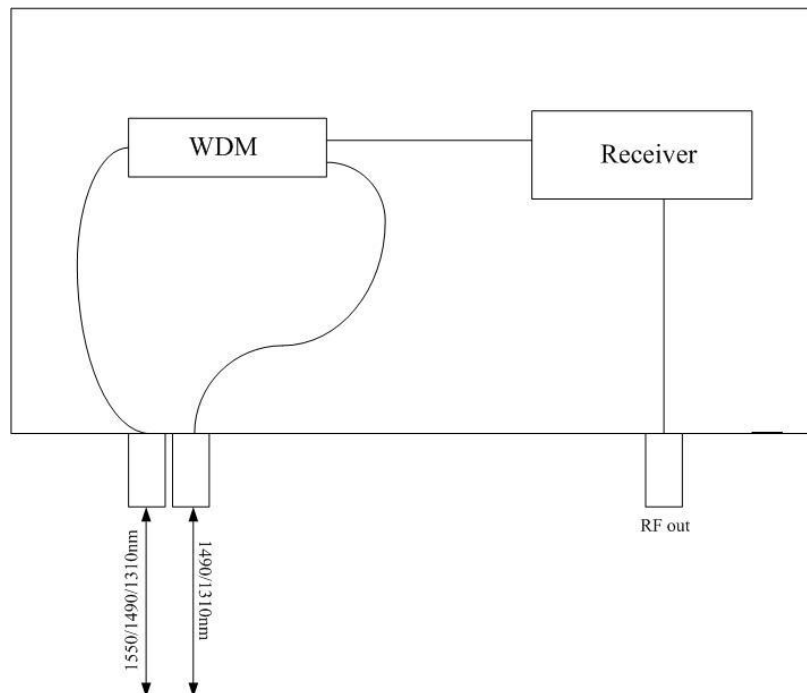


Fig.1 Block Diagram

Model	Remark
SR201W	FTTH Optical Node

3. Specification

Item	Description	Value	Unit	Conditions / Notes
Optical Specifications (Forward Path)				
1	Wavelength	1550/1490/1310	nm	Com port
		1490/1310	nm	For ONT
2	Optical Power Input Range	-18~-1	dBm	
	Recommended Optical Power Input Range	-15~-4	dBm	
3	Optical Input Return Loss	≥45	dB	
RF Specifications (Forward Path)				
4	Bandwidth	47~1003	MHz	

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5	Flatness	±0.75	dB	47~870MHz, At 25 °C
6	Slope	0~1.0	dB	47~870MHz, At 25 °C
7	Temperature Stability	±1.0	dB	In the operating temperature range (-25 ~ +65 °C)
8	Output Level	70±2	dBuV	-15dBm input optical power, per channel modulation 4.0%, in the 860MHz point test, at 25 °C
9	Impedance	75	Ohm	
10	Return Loss (47~1000MHz)	≥14	dB	At 25 °C
11	MER	≥33	dB	-15~-3dBm input optical power
		≥26	dB	-20~-16,dBm input optical power
12	Power	< 1.0	W	
Environmental Parameters				
13	Operating Temperature	-25~65	°C	
14	Storage Temperature	-40~70	°C	
15	Storage Humidity	≤95	%	Non- condensation
User Interface				
16	Optical Connector Type	SC/APC in, SC/PC out		SC Optional
17	Power interface	DC5V/0.5A		External adapter
18	RF Output Connector	Metric or imperial		
		Single port or two ports		Optional
19	Optical Power Indicator	Two color lights		Optical power <-20dBm ,red Optical power >-20dBm ,green
20	Housing	110×90×27	mm	
21	Weight	0.15	kg	