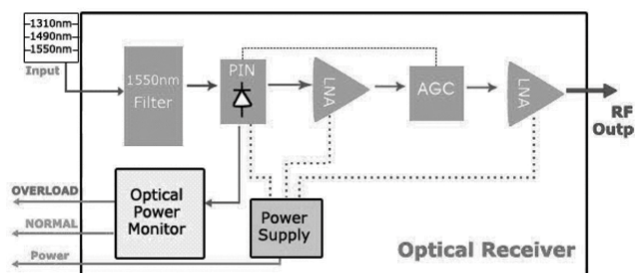




Description

The **RF-1R-90D** FTTH 1 Way output CATV AGC receiver with work bandwidth 45-1000MHz, AGC function, output level $V_o=88dB\mu V\pm 1dB$ ($P_{in}=-7\sim+1dBm$), applies to FTTH system, it is a low power consume, high performance ONU for RFTV broadcast network. **RF-1R-90D** adopt high sensitivity optical receiving tube and RFOG specialized low noise match circuit, 3.5% modulate full channel transmit power receiving and the CNR can reach high index 46dB. **RF-1R-90D** has two types according to different functions. **RF-1R-90D** is standard type, **RF-1R-90D** is build-in filter, RFTV operating in 1550nm. Customer could choose the suitable model according to their systems application.



RF Typical Performance

Parameter	Units	Min	Typical	Max	Supplement
Frequency	MHz	45		1000	
Flatness	dB		± 0.75		
AGC	dB		± 1		$P_{in}:-7\sim+1dBm$
Port			1		
RF port			F-female		
Output level	$dB\mu v$	87	88	89	$P_{in}:-7\sim+1dBm$
Return loss	dB		-16		
Output Impedance	Ω		75		
CNR	dB			46	
CSO	dB			66	
CTB	dB			68	

Key Features

- Optical CATV home receiver
- Ultra low noise technology
- Very low distortion
- Wide range of optical input power
- Single-mode fiber high return loss
- F-female 75 ohm RF output

Main application

- CATV HFC networks
- FTTH FTTP networks
- xPON system

Optical Typical Performance

Parameter	Units	Min	Typical	Max	Supplement
Wavelength	nm	1540	1550	1560	
Responsivity	A/W		≥ 0.9		
Return loss	dB		≥ 55		
Receiving power	dBm	-7		+1	
Optical connector			SC/APC		SC/APC or FC/APC

The optical fiber connector optional SC/APC or FC/APC

General feature

Parameter	Units	Min	Typical	Max	Supplement
Power supply	V	11	12	13	
Power consume	W	360	370	380	
Work temp	$^{\circ}C$	-20		+55	
Storage temp	$^{\circ}C$	-40		+85	
Size	cm		10*8*2.4		(W) x (D) x (H)

