

## OR3100R Optical Receiver



OR3100R optical receiver is our company's another characteristic product for FTTH network. This product adopts the small cast-aluminium outer covering, the internal circuit structure compact reasonable; the performance index is outstanding, which is first choice product of the plot or the family optical fiber network.

### Performance Character

- 1 way forward frequency output, the impedance is 75Ω.
- Adopt GaAs
- 12-15V DC voltage power supply.
- - 20dB input and the output test port, the debugging is more convenient.
- Optical power test port (1V/1mW)
- Forward SC/APC, Return path SC/APC

### Performance Parameter

Item	Unit	OR3100R
<b>Forward Performance Parameter</b>		
<b>Optical Parameter</b>		
Receive Optical Power	dBm	-7 ~ +2
Propose Use Range	dBm	-3 ~ +1
Return Loss	dB	> 45
Optical Wavelength	nm	1100 ~ 1600

Connector Type		SC/APC
Fiber Type		Single Mode
<b>Circuit Parameter</b>		
C/N	dB	$\geq 50$
C/CTB	dB	$\geq 65$
C/CSO	dB	$\geq 62$
<b>RF Output Performance</b>		
Frequency Range	MHz	45/87 ~ 750/862
Flatness Band	dB	$\pm 0.75$
Rated Output Level	dB $\mu$ V	$\geq 85$ ( - 2dBm )
Max Output Level	dB $\mu$ V	$\geq 90$
Input Return loss	dB	$\geq 14$
Output Impedance	$\Omega$	75
<b>Return Transmit Performance Parameter</b>		
<b>Optical Parameter</b>		
Optical Transmit Wavelength	nm	$1310 \pm 10$
Laser Type		FP Laser
Output Optical Power	mW	0.5 ~ 2
Connector Type		SC/PC
<b>RF Output Performance</b>		
Frequency Range	MHz	5 ~ 30/65 (decided by user)
Flatness of Circuit	dB	$\pm 1.5$
Input Level	dB $\mu$ V	80 ~ 90
Input Return Loss	dB	$\geq 16$
Output Impedance	$\Omega$	75

## 1. Principle Drawing

