

WR2690-CW CATV&SAT-TV Optical Receiver with CWDM

1. Product Summary

WR2690-CW is specially developed for the CATV and satellite direct broadcast TV transmission in one network. With small shell, compact and reasonable internal circuit structure and excellent performance, it is compatible with FTTxPON technology. Realize FTTH and the integration of Analog TV, Digital TV (DBS-C, DBS-T) and Satellite TV in one fiber.



2. Performance Characteristics

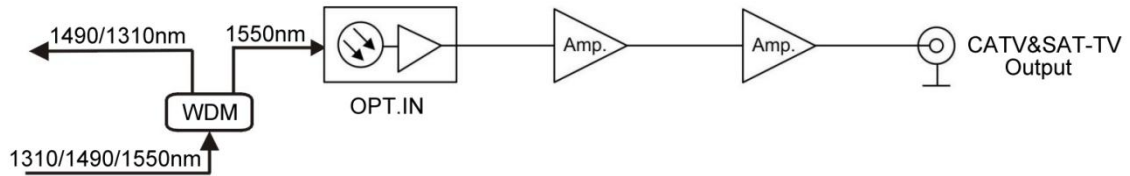
- High linearity, suitable for Analog TV&SAT-IF application.
- Bandwidth: 45~2600MHz.
- Simultaneously receive CATV and SAT-IF signal, can be compatible with FTTxPON technology.
- Mini metal shell and compact design with low power consumption.
- DC +12V power supply.

3. Technical Parameter

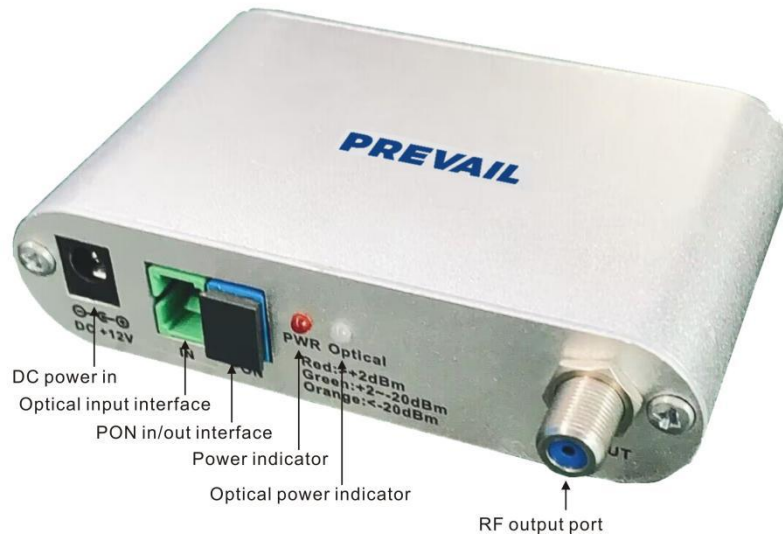
Item		Parameters	Remark
Optical			
Operating Wavelength	nm	CATV: 1550±10 PON: 1310, 1490	
Responsivity	A/W	0.85	1550nm
WDM Insertion Loss	dB	<0.7	
Isolation	dB	>30	1310&1490~1550nm
Optical Return Loss	dB	>45	
Receiving optical power range	dBm	-7 ~ +2	Analog TV
		-14 ~ +2	Digital TV
		-20 ~ +2	Satellite TV
Optical Connector Type		SC/APC, SC/UPC	
RF			
Operating Bandwidth	MHz	45 ~ 2600	
Output Level	dBμV	>90	@Pin=0dBm
Flatness	dB	±1.0	45~862MHz
		±2.5	950~2600MHz
Output Return Loss	dB	>14	45~862MHz
		>12	950~2600MHz
C/N	dB	>51	@Pin= -1dBm,
CTB	dB	>61	Pout>88dBμV, 84CH
CSO	dB	>61	PAL-D, OMI=3.8%
Output Impedance	Ω	75	
RF connector		F type (Metric/Imperial optional)	75Ω
General			

Operating Voltage (DC)	V	DC 12V	
Consumption	W	≤3	
Operating Temperature	°C	-20 ~ +60	
Dimension (W)×(D)×(H)	mm	109 (L) × 80 (W) × 26 (H)	

4. Block Diagram



5. Structure Description



Input optical power indicator description	
Green:	+2 ~ -20dBm
Orange:	<-20dBm
Red:	>+2dBm

6. Naming Rules

