

Description

2-way output CATV optical receiver.

Feature

- Forward optical receive part adopts E-O PIN or WTD (Option) receiving IC. Import PHILIPS (BGY887) amplifier module in pre-RF amplify circuit, import PHILIPS (BGD814) power double amplify module(also adopt GaAs)
- Return optical receive part adopts FP or DFB, adopts PHILIPS amplify module (BGY67A) ensure NPR.
- Insert dual-filter, insert fix-Equalizer and fix-attenuator or (VAR)
- Eight-order optical power indication.
- Aluminum waterproof housing, high-capability power switch, anti-thunder system



Performance Parameter

Item	Unit	Parameter	
		SA812/SA812R	
Forward Performance Parameter			
Optical Parameter			
Receive Optical Power	dBm	-5 ~ +2	
Propose Use Range	dBm	-3 ~ +1	
Return Loss	dB	> 45	
Optical Wavelength	nm	1100 ~ 1600	
Connector Type		FC/APC、SC/APC	
Fiber Type		Single Mode	
Circuit Performance			
C/N	dB	≥ 51	
C/CTB	dB	≥ 65	
C/CSO	dB	≥ 60	
RF Parameter			
Frequency Range	MHz	45/87 ~ 750/862	
Flatness in Band	dB	±0.75	
Rated Output Level	dB μ V	≥ 94	
Max Output Level	dB μ V	≥ 104	
Output Return Loss	dB	≥ 15	
Output Impedence	Ω	75	

Item	Unit	Parameter	
		SA814/SA814R	
Return Transmit Performance Parameter			
Optical Parameter			
Optical Transmit Wavelength	nm	1310±10	

Community Antenna Television

SR812

Optical Node

Laser Type	FP or DFB Laser	
Output Optical Power	mW	1 ~ 3
Connector Type	FC/APC、SC/APC	
RF Parameter		
Frequency Range	MHz	5 ~ 30/65
Flatness in Band	dB	±1.5
Input Level	dBμV	90 ~ 98
Input Return Loss	dB	≥ 16
Output Impedence	Ω	75
NPR	dB	≥10 (NPR≥30 dB)
General Performance		
Supply Voltage	V	A: AC 135~250; B: AC 35~90 (50Hz)
Operating Temperature	°C	-40 ~ +60
Storage Temperature	°C	-50 ~ +70
Relative Humidity	%	Max 95% No Condensation
Consumption	W	≤ 40
Dimension	mm	320(L)× 210(W)×130(H)

Test Condition

Below part of optical receiver: Standard optical fiber together with transmitter makes the testing circuit. Set with 59 PAL-D analog TV channel signal at range of 45 MHz ~ 550MHz in the fix index loss of circuit. Transmit digital modulation signal at rang of 550MHz~862MHz, the electricity level (8 MHz bandwidth) digital signal is lower 10dB than analog signal of carrier electricity level; the input of optical receiver is -2dBm, output level of RF is 90dBuV with lean beam of 9dB output, measure C/CTB , C/CSO , C/N .

